# ICAR-ATARI, Pune

# **DETAILS OF ACTION PLAN OF KVK, District – Patan (Gujarat)**

(1st April 2018 to 31st March 2019)

#### 1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
Krishi Vigyan Kendra	Office	FAX	kvksamoda@yahoo.	
Saraswati Gram Vidhyapith Samoda-Ganwada Ta.Sidhpur, Di. Patan Gujarat, Pin. 384 151	02767 285528	02767 285528	com	

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

Address	Telephone		E mail	Website address
	Office	FAX		
Saraswati Gram Vidyapeeth,				-
Samoda-Ganwada	02767	02767	kvksamoda@y	
Ta.Sidhpur, Di. Patan	285199	285528	ahoo.com	
Gujarat, Pin. 384 151 (N.G.)				

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

Name	Telephone / Contact			
Dr. Upesh Kumar	Office	Mobile	Email	
Senior Scientist and Head				
Krishi Vigyan Kendra				
Samoda-Ganwada	02767 285528	9425661514	kvksamoda@yahoo.com	
Ta.Sidhpur, Di.Patan Gujarat				
Pincode-384151				

1.4. Year of sanction: 1993

## 1.5. Staff Position (as on March 31, 2018)

			If Permanent, Please indicate		licate		If Temporary, pl.
SI. No.	Sanctioned post	Name of the incumbent	Discipline	Current Pay Band	Current Grade Pay	Date of joining	indicate the consolidated amount paid (Rs./month)
1.	Senior Scientist and Head	Dr.Upesh kumar	Pl. Pathology	PB-4 37,400-67000	9000	1/10/16	-
2.	Subject Matter Specialist	Shri G.APatel	Plant Protection	PB-3 15600-39100	5400	6/5/1993	-
3.	Subject Matter Specialist	Shri H.P.Patel	Extension Education	PB-3 15600-39100	5400	8/5/1993	-
4.	Subject Matter Specialist	Smt. H.B.Patel	Home Science	PB-3 15600-39100	5400	19/8/2002	-
5.	Subject Matter Specialist	Shri S.S. Darji	Horticul-ture	PB-3 15600-39100	5400	2/4/2012	-
6.	Subject Matter Specialist	Shri R.P.Chaudhari	Agronomy	PB-3 15600-39100	5400	16/4/2015	-
7.	Subject Matter Specialist	Shri S.J.Patel	Animal Science	PB-3 15600-39100	5400	01/09/2016	-
8.	Programme Assistant	Shri D.N.Patel	-	PB-2 9300-34800	4600	22/2/1996	-
9.	Computer Programmer	Smt. J.N.Patel	-	PB-2 9300-34800	4600	27/7/1996	-
10.	Farm Manager	Shri D.R.Patel	-	PB-2 9300-34800	4600	01/09/2002	-
11.	Accountant/Superintendent	Shri N.B.Patel	-	PB-2 9300-34800	4600	25/1/1996	1
12.	Stenographer	Shri J.K.Patel	-	PB-1 5200-20200	2400	01/09/2002	-
13.	Driver 1	Shri R.A.Patel	-	PB-1 5200-20200	2000	14/8/2010	-
14.	Supporting staff 1	Shri R.H.Desai	-	PB-1 5200-20200	1900	14/5/1993	-
15.	Supporting staff 2	Shri R.D.Thakor	-	PB-1 5200-20200	1900	25/1/1996	-
16.	Supporting staff 3	Shri P.V.Senma		PB-1 5200-20200	1900	25/1/1996	-

# 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.	Orchard/Agro-forestry	5.00
5.	Others (specify)	3.00
	Total	20.00

# 1.7. Infrastructural Development:

# A) Buildings

		Source of	Stage					
S.	Name of building	funding	Complete			Incomplete		
No.	Name of building		Completion	Plinth area	Expenditure (Rs.)	Starting year	Plinth area	Status of construction
			Year	(Sq.m)	Experialture (RS.)	Starting year	(Sq.m)	Status of construction
1.	Administrative	ICAR	1993	694	21,87,250=00	-	-	-
	Building		1999-2000		12,37,848=11			
2.	Farmers Hostel	ICAR		308.82		-	-	-
3.	Staff Quarters (9)	ICAR	1996-97	731	16,89,512=74	-	-	-
4.	Demonstration Units (2)	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	-	285640=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	-	Not in working
Jeep	2009-10	7,60,236=00	174963	Working
Motorcycle	2010-11	49,695=00	51904	Working

# C) Equipments& AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Slide Projector/ O.H.P.	1994	23,969=00	Working
Mega Phone	1994	2,140=00	Working
Computer + Printer	2006	66,530=00	Working
Stabilizer	2006	1,750=00	Working
LCD Projector	2007	54,326=92	Working
DVD Player	2007	3,846=16	Working
Laptop	2007	39,423=08	Working
P.A. System	2009	28,600=00	Working
Computer	2009	49,500=00	Working
Generator	2009	98,500=00	Working
Fax machine	2009	19,800=00	Working
Multicrop thresher	2011	1,46,000=00	Working
Rotary weeder	2011	51,450=00	Working
Power sprayer	2011	15,855=00	Working

Seed cum fertilizer drill	2011	27,250=00	Working
K-YAN	2013	76,650=00	Working
Oven	2014	7200=00	Working
Sewing Machine	2014	8700=00	Working
Computer (Dell inspiron 3250) (No.2)	2017	68000=00	Working
Epson –M-200 printer (No.1)	2017	12000=00	Working
AC (No.2)	2017	98000=00	Working
Podium –PD-900	2017	40000=00	Working
Promax audio trally	2017	16000=00	Working
Interactive white board-IR80	2017	32000=00	Working
Double sided pinup board	2017	17050=00	Working
Folding banner stand	2017	2000=00	Working
Projection screen	2017	3200=00	Working
Camera (No.3)			
Canon DLSR	2017	43495=00	
Sony digital	2017	8390=00	Working
Sony Handy cam	2017	31990=00	
Philips 55' digital signage display	2017	99800=00	Working
Magazin display stand (No.2)	2017	7640=00	Working
Motorized scroller	2017	17300=00	Working
Acrylic charts (57)	2017	79800=00	Working
Rolling charts (27)	2017	8910=00	Working
Standy with flex banner (No.4)	2017	3680=00	Working

GPS-Navigator	2017	8000=00	Working
Sprayers No.4)	2017		
-Aspee durotekic battery sprayer	2017	14650=00	
-Aspee Bolo motorized knapsack sprayer	2017		Working
-Aspee duroteck hitech sprayer	2017		
Nursery tools	2017	35965=00	Working
Water cooler with purifier	2017	52100=00	Working
Soil testing lab kit (No.2)	2017	172000=00	Working
Chaff cutter	2017	26964=00	Working
Grinder	2017	16065=00	Working
BP monitor	2017	1200=00	Working
Weighting scale	2017	1000=00	Working
Acrylic specimen box (30)	2017	10500=00	Working
Agrimedia video film (125)	2017	13125=00	Working
Double sided pinup board (No.2)	2017	34100=00	Working

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

SI.No.	Date
Scientific Advisory Committee	January, 2019

### 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 – Dairy
2.	Crop Production – Horticulture – Dairy
3.	Poultry Farming.
4.	Cropping system predominant in district
	- Castor
	- Cotton
	- Green gram/ Black gram/ Cluster bean – Wheat/ Mustard/ Chickpea/ Cumin / Funnel – Pearl millet

### 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	- Average rainfall is 610 mm.		
	(Patan, Saraswati, Sidhpur and	- Soil type is loamy, sandy, saline & medium black.		
	Chansama taluka) - Main crops- Cotton, Wheat, Castor, Cumin, Bajara			
		& Mustard, Fennel, Chilli, Carrot		
2	Zone No.8	- Average rainfall is 500mm.		
	(Harij, Sami, Shankheswar,	- Soil type is loamy, sandy, saline and medium black.		
	Radhanpur and Santalpur	- Main Crops - Rainfed Cotton, Wheat, Gram,		
	taluka)	Dill seed, Mustard & Cumin.		

## b)Topography

Sr.	Agro ecological	Soil texture	Rainfall	Special features	Principal crops	Taluka cover
No.			mm			
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	Bajra, Sorghum,	Harij : 65.45%

			absence of vegetative cover	Cumin, Gr	ram, Cotton	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> <li>High Water holding cap</li> </ul>	pacity			30400
		<ul> <li>Low permeability</li> </ul>				
		- Water logging condition	n			
		- Fertile soil				
2.	Medium black soil	- Medium WHC				334400
		- Medium permeability				
		- Fertile soil				
3.	Loamy soil	- More retain water and n	nutrient than sandy soil and low retain wat	er and		213220
	-	nutrient than black soil	-			
4.	Sandy soil	- Low WHC				165424

109535

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

- High permeability

Water logging condition - Crack formation during Summer Season

Salts accumulation on the soil surface

Saline soil

S. No	Crop	Area (ha)	<b>Production (MT.)</b>	Productivity (Qt./ha)
1	Bajra-Kharif	1065	577	5.42
2	Bajra-Summer	5745	15190	26.44
3	Cotton- Desi	18290	12157	6.64
	Hybrid	34900	31375.1	8.99
4	Castor	111980	180960	16.16
5	Mustard	29262	44420	15.18
6	Wheat	40180	137355	34.18
7	Pulses Gram	7180	3698	5.15
	Green-gram	894	407	4.55
	Black-gram	1789	850	4.75

8.	Cluster bean (Seed)	42085	25335	6.02
9.	Moth bean & cowpea	321	157	4.88
10.	Fruit- Lime	805	8533	106
	Pomegranate	553	6138	111
	Ber	344	3619	105.20
11.	Cumin	41177	37059	9.0
12.	Fennel	3339	7680	23.0
13.	Dilseed	3300	4785	14.50
14.	Potato	527	11705	222.1
15.	Vegetable-Cluster bean	683	7615	111.5
16.	Cow pea	495	4960	100.2

Source: District agriculture department.

## 2.5. Weather data (2017-18)

Month	D-!f-II ()	Tempera	ature 0 C
IVIONIN	Rainfall (mm)	Maximum	Minimum
April-17	0.0	38.50	28.41
May-17	0.0	41.18	29.78
June-17	46.0	37.44	27.56
July-17	509.0	29.59	20.86
August-17	218.0	29.50	21.69
September-17	0.0	30.05	21.01
Oct 17	0.0	28.29	18.46
Nov 17	0.0	28.22	15.07
Dec 17	0.0	23.78	11.72
Jan18	0.0	24.38	12.97
Feb18	0.0	27.80	16.13
March-18	0.0	33.62	19.97

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

Category	Population	Production	Productivity
Cattle			
Crossbred	123530	1104	3.68 kg./day
Indigenous	7493	2520	8.40 kg./day
Buffalo	363514	1350	4.50 kg./day
Sheep			
Crossbred	53750	-	-
Indigenous	•	-	-
Goats	102937	-	-
Pigs	131	-	-
Crossbred	•	-	-
Indigenous	-	-	-
Rabbits	185	-	-
Poultry			
Hens	26210	7207750 egg./yr.	275 egg./bird/yr.

## 2.7. Details of Operational area / Villages

Taluka	Name of sub	Name of the Village	Major crops & enterprises	Major problem identified	Identified thrust area
G: 11	division	N. 4. 11	G .	1	A 1
Sidhpur		Madhopura,	Castor	-Average productivity is low in	-Average productivity of major
		Sagodia,	Cotton		crops is low
		Bamaiya,	Mustard	-Leaf curl infestation in chilli	
		Matpur,	Wheat	-Low ground water table.	-Micro irrigation system
		Khimiyana	Bajra		
			Cumin	-Soil productivity status is low	-Reclamation of problematic soil
			Fennel	-Problematic soil- Saline &	
Patan			Tobacco	Alkaline soil	-Area under fruit & vegetable
			Carrot	-Flower dropping in cotton	crop is very low
			Pomegranate	-Pest & diseases intensity high-para	
Chansma			Kagzi lime	wilt in cotton, termite in wheat,	-Scope & Importance of
			Chilli	Blight in Cumin, Mealybug in	secondary agriculture
				Cotton, Semi-looper & prodenia in	
				castor, and citrus canker & dieback	-Average milk production per
				in lime	animal is low
Sami			Cumin	-Pink ball worm infestation in	
Shankhesh			Ajwain	BT Cotton	-Farm mechanization
war			Gram		
	<b>=</b>	Vulzanona		-Less adoption of horticultural	-Women empowerment through
	ndı	Kukarana, Kathi,	Guar	crops	income generation activities
Harij	har	,			-No use of micronutrient in fruits
11411	<b>≍</b>	Orumana,	Castor	-Loss of food grains due to poor	& vegetable crop
Radhanpur	$\simeq$	Tuvad		knowledge and storage facility	we regetable crop
Radiianpui			Wheat	knowledge and storage racinty	
			Dilseed	-Average milk production per	
Santalpur			Desi Cotton	animal is low	
Samaipui				allillar is low	

## 2.8. Priority thrust areas:

Crop/ Enterprise	Thrust area	Crop/ Enterprise	Thrust area
Castor	Integrated Nutrient management	Chilli	Nursery Management
	Micro Irrigation System		Integrated Nutrient Management
	Integrated weed management		Micro Irrigation System
	Integrated pest management		Value Addition
	Integrated Disease management		Production Technology
			Integrated Disease Management
			Integrated Pest Management
Cotton	Integrated Nutrient management	Pomegranate and Lime	Plant propogation technique
	Integrated weed management		Training & Pruning
	Micro Irrigation System		Rejuvenation of old orchards
	Integrated pest management		Micro Nutrient Application
	Integrated Disease management		Micro Irrigation System
			Integrated Disease Management
			Integrated Pest Management
			Value Addition
Chickpea	Integrated Nutrient management	Soil Health	Production of Organic Inputs
	Integrated weed management		Soil Fertility Management
	Micro Irrigation System		Management of problematic soil
	Integrated pest management		
	Integrated Disease management		
Mustard	Integrated Nutrient management	Live-stock	Dairy Management
	Integrated weed management		Feed Management
	Micro Irrigation System		Disease Management
	Integrated pest management		Breeding Management

	Integrated Disease management		Production of livestock feed and fodder  Animal nutrition management
Wheat	Integrated Nutrient management Integrated weed management Micro Irrigation System Integrated pest management Integrated Disease management	Fodder Bajra and Sorghum	egrated Crop Management egrated Nutrient Management Ider production
Cumin/ Fennel/Ajwain	Production & management technology Water management Integrated Pest & Disease management Value addition	Home Science	Use of solar cooker Fruits & veg. preservation Farm women empowerment through income generation activity Drudgery reduction House hold Food Security by kitchen gardening and nutritional gardening Income generating activity Low cost & high nutrition diet Women & child care

### 3. TECHNICAL PROGRAMME

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

0	FT	FLD	
(**	1)	(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
10	89	297	795

Trai	ning	Extension Activities						
	3)	(4)						
Number of Courses	Number of Participants	Number of activities	Number of participants					
77	1850	55	1922					

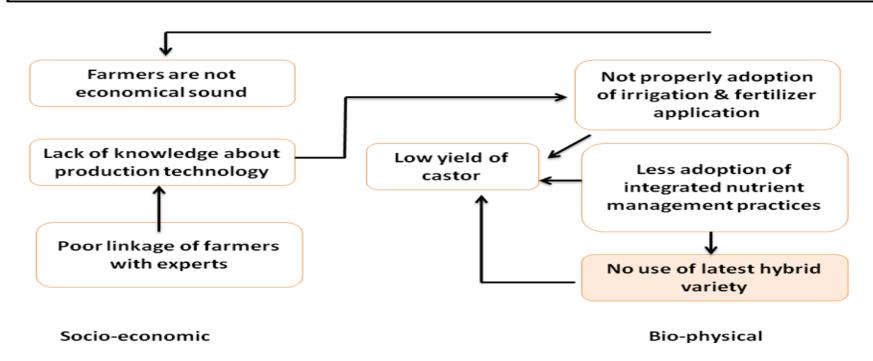
Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (No's)	Soil Samples
(5)	(6)	(7)	(8)
68	107000	-	200

# 3.1. B. Operational areas details proposed during 2018-19

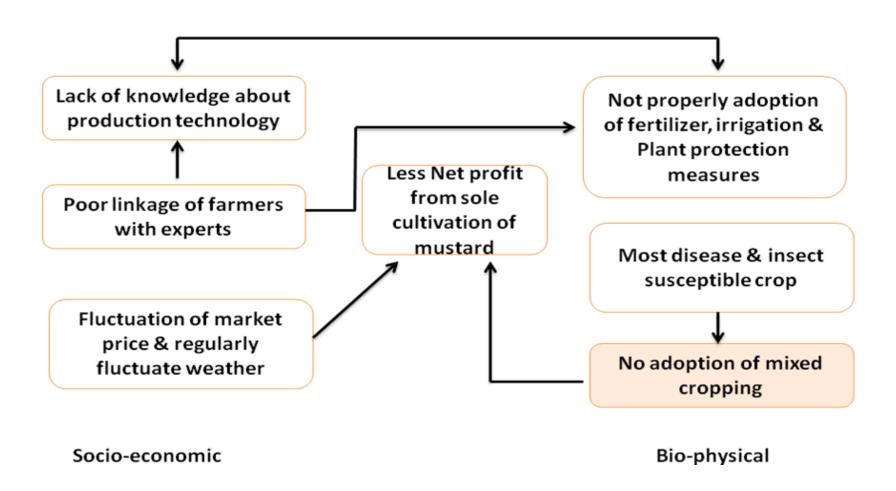
S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Cotton	Imbalance use of nutrient Heavy infestation of pest- pink boll worm Heavy incidence of disease- Wilt	11,000 ha	Chansama	Training, FLD, Field Day, Field visit etc
2	Black gram	Use of old/ local variety Imbalance use of nutrient Heavy infestation of pest Heavy incidence of disease	1000 ha	Sankeshwar & Sami	Training, FLD, Field Day, Field visit etc
3	Castor	Imbalance use of nutrient Scarcity of irrigation water Heavy infestation of pest Heavy incidence of disease	75000 ha	Saraswati, Siddhapur	Training, FLD, Field Day, Field visit etc

4	Chickpea	Use of old/ local variety Imbalance use of nutrient Scarcity of irrigation water Heavy infestation of pest- Heliothis Heavy incidence of disease- Wilt	5000 ha	Sankeshwar & Sami	Training, FLD, Field Day, Field visit etc
5	Mustard	Use of old/ local variety Imbalance use of nutrient Scarcity of irrigation water Heavy infestation of pest- Aphid Heavy incidence of disease-blight	20000 ha	Chanasma & Patan	Training, OFT, FLD, Field Day, Field visit etc
6	Wheat	Imbalance use of nutrient Scarcity of irrigation water Heavy infestation of pest- termite	25000 ha	Siddhapur	Training, OFT, FLD, Field Day, Field visit etc
7	Chilli	Imbalance use of major nutrient& no use of micro nutrient Scarcity of irrigation water Heavy infestation of pest- sucking pest Heavy incidence of disease – leaf curl	75 ha	Biliya, Chandrawati & Madhopura	Training, FLD, Field Day, Field visit etc
8	Fennel, Ajwain & Cumin	Use of old/ local variety Imbalance use of nutrient Scarcity of irrigation water Heavy incidence of disease-blight	25000 ha	Danodarda, Kathi, Patan	Training, FLD, Field Day, Field visit etc
8	Milch animal- Cow & Buffalo	Heavy infestation of endo & ecto parasite  No use of by pass fat  No or improper use of mineral mixture  Not availability of green fodder in round the year	675 % animal are affected	Madhopura, Agar, Kimbuwa, Orumana	Training, OFT, FLD, Field Day, Field visit etc

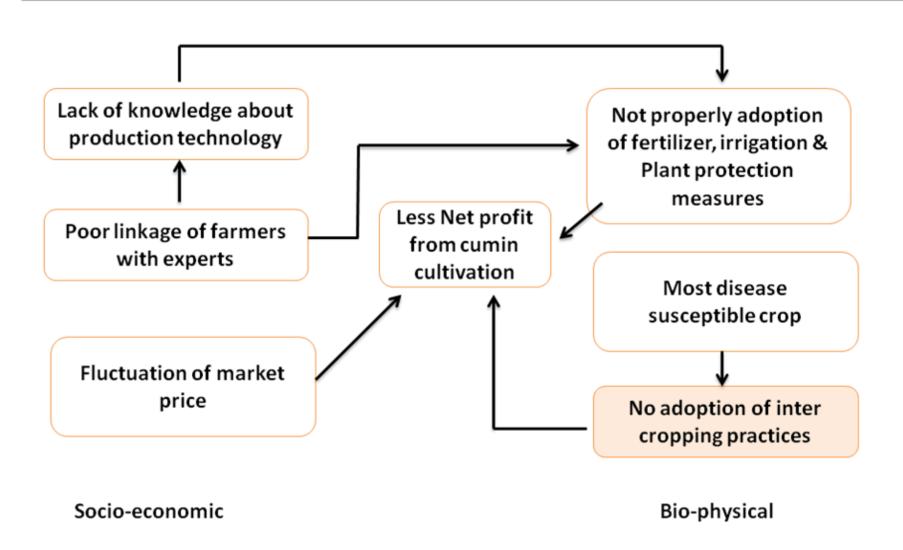
# PROBLEM CAUSE DIA-GRAM - CASTOR HYBRID



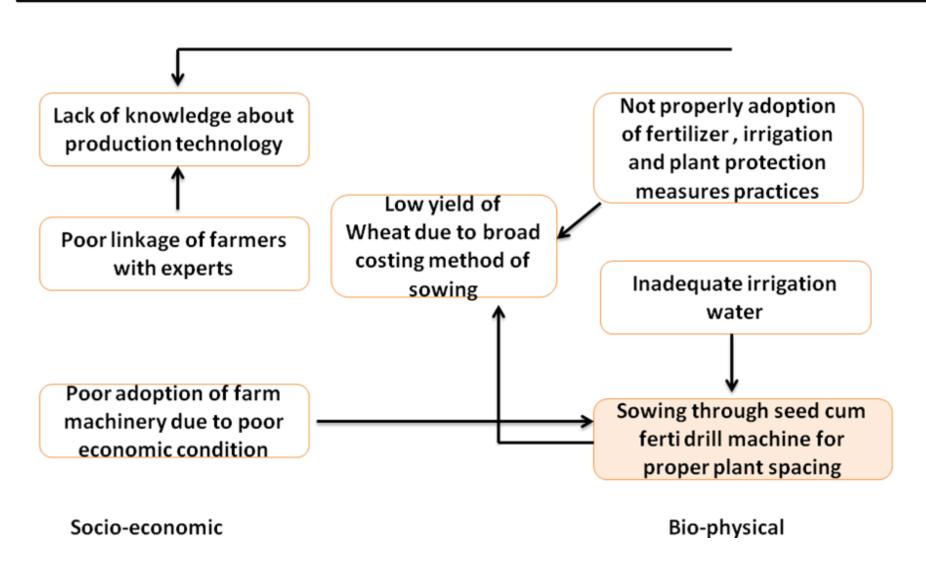
# PROBLEM CAUSE DIA-GRAM- Mustard + Lucerne



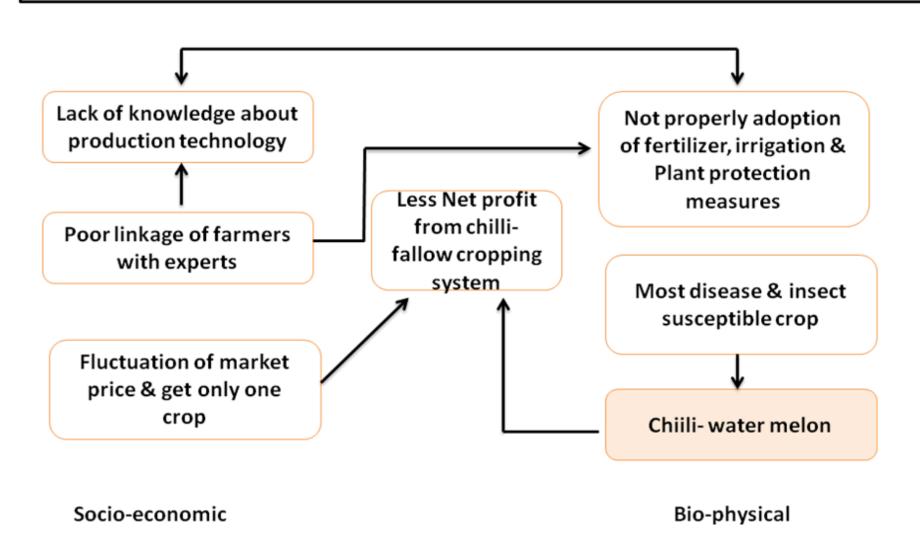
# PROBLEM CAUSE DIA-CUMIN +AJWAIN



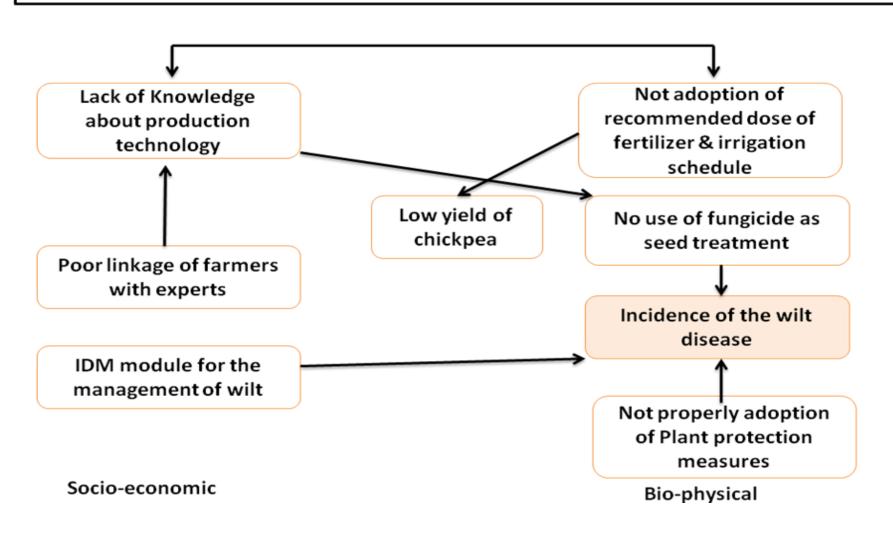
# PROBLEM CAUSE DIA-GRAM- Seed cum ferti drill



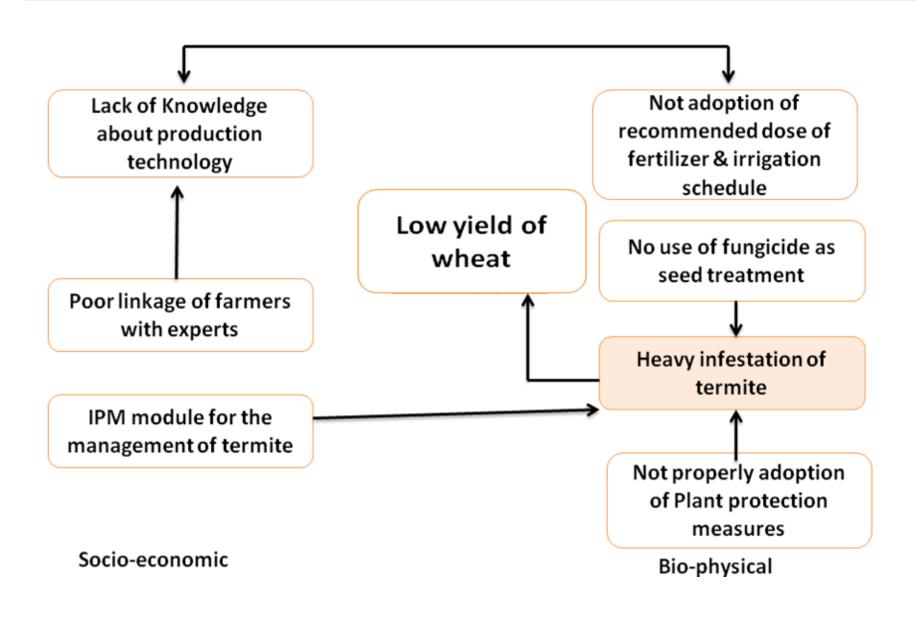
# PROBLEM CAUSE DIA-GRAM- CHILLI- WATER MELON



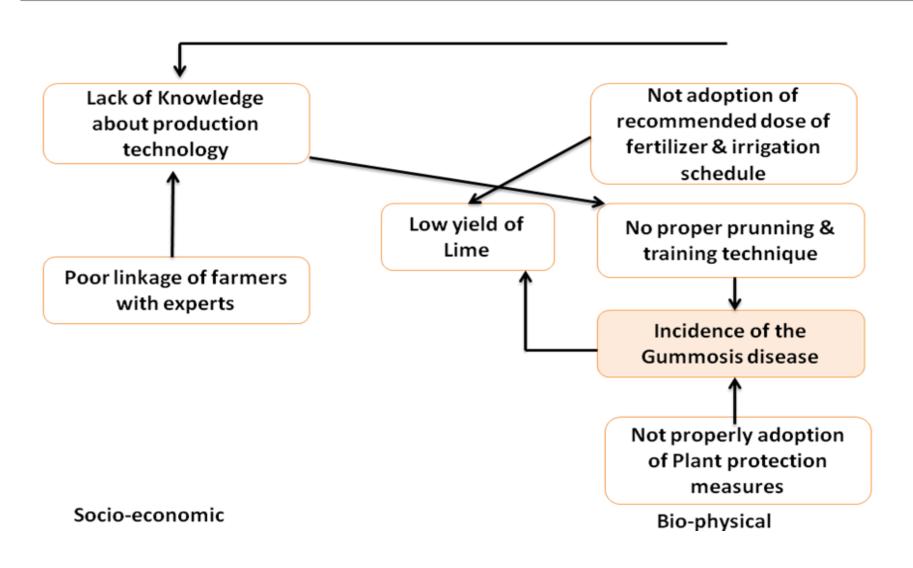
# PROBLEM CAUSE DIA-GRAM- WILT DISEASE IN CHICKPEA



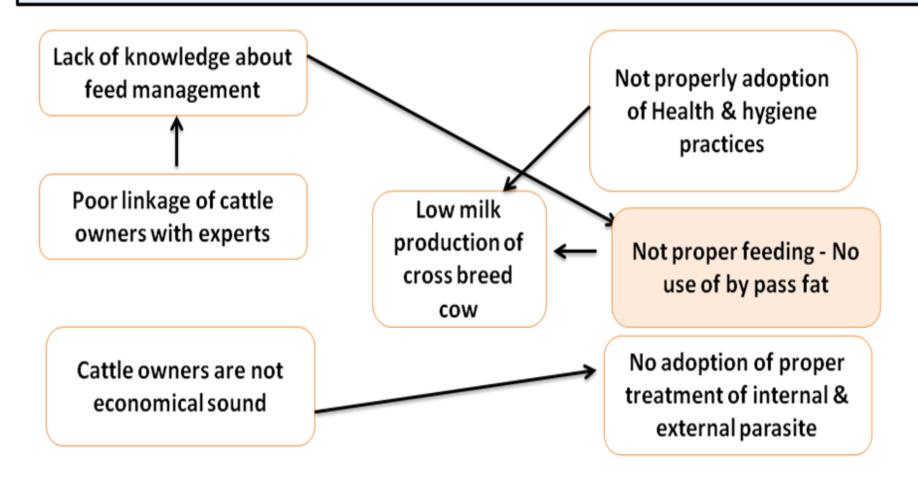
# PROBLEM CAUSE DIA-GRAM- TERMITE IN WHEAT



# PROBLEM CAUSE DIA-GRAM- Gummosis disease in lime

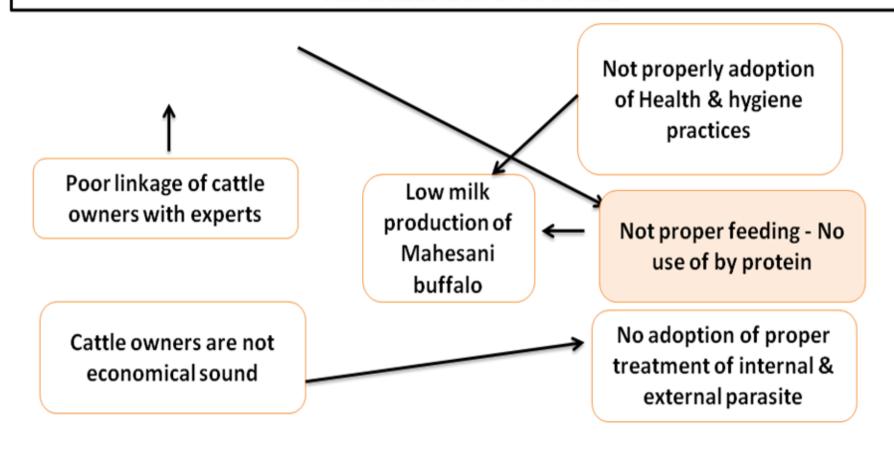


# PROBLEM CAUSE DIA-GRAM ON BY PASS FAT



Socio-economic Bio-physical

# PROBLEM CAUSE DIA-GRAM ON BY PASS PROTEIN IN MAHESANI BUFFALO



Socio-economic Bio-physical

## 3.2.Technologies to be assessed and refined

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation		01								01
Seed / Plant production										
Weed Management										
Integrated Crop Management		01		02						03
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries	01									01
Value addition										
Integrated Pest Management	01									01
Integrated Disease Management			01			01				02
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	02	02	01	02		01				08

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Kitchen garden	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										

## 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	02							02
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL	02							02

## 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								
TOTAL								

# B. Details of On Farm Trial / Technology Assessment during 2018-19

S. No	Crop/ enterpri se	Prioritized problem	Title of OFT	Technology options	Source of Technol ogy	Name of critical input	Qty per trial	Cost per trial	No. of trial s	Total cost for the OFT( Rs.)	Parameters to be studied	Team membe rs
1	Castor	Low yield of castor due more male flower in GCH-7average production	Assessment of production of Hybrid varieties of castor	Hybrid variety GCH-8	SDAU, S.K.Nag ar	Castor Seed GCH 8	GCH 8 Seed- 1	200	10	2000	No of Spikelets per plant, No of capsules per spike & Yield (qtl/ha)	Mr R P Chaudhr i
2	Mustard	Low net profit of Mustard grown as Sole crop	Assessment of mixed cropping mustard with Lucerne	Mix cropping (Mustard +Lucerne)	SDAU, S.K.Nag ar	Mustard seed Lucerne seed	Mustard seed- 1 Kg + Lucerne seed- 1.25 Kg	455	10	4550	Yield (qtl/ha)	Mr R P Chaudhr i
3	Wheat	High seed rate in Broadcasting Method	Assessment of Line sowing in Wheat	Line sowing of Wheat at seed rate of 125 Kg/ha	SDAU, S.K.Nag ar	Hiring of machine	-	300	10	3000	& Yield (qtl/ha) & Net profit (Rs/Ha)	Mr R P Chaudhr i
4	Cumin + Ajwain	Low net profit of sole crop in cumin	Assessment of intercropping (Cumin + Ajwain) for enhancing the net profit	Intercropping – Cumin + Ajwain	SRS,Jag udan,S DAU,S. K.Nagar	Cumin & Ajwain seed	3.25 Kg&0.5 Kg	506	05	2530	Net profit (Rs/Ha)	Mr S S Darji

5	Chilli – Waterme lon	Low net profit of present cropping system Chilli - fallow	Assessment of cropping system-Chilli – Watermelon for enhancing the net profit	Chilli - Watermelon	IIHR,Ba nglore	Watermelon seedling	1250 No	3125	04	12500	Cropping intensity (%) & Net profit (Rs/Ha)	Mr S S Darji
6	Chickpea	Low yield of chickpea due to heavy incidence of wilt disease	Assessment of IDM module for the management of wilt disease in chickpea	Seed treatment by T viridae @ 10 g/Kg seed along with soil inoculation by T viridae @ 2.5 Kg/ ha	JAU, Junagar h	T viridae Vermicomp ost	0.625 Kg 25 Kg	Rs 225/	10	Rs 2250/ -	Disease incidence (%) Yield (qtl/ha)	Mr G A Patel
7	Wheat	Low yield of wheat due to heavy infestation of termite	Assessment of IPM module for the management of termite in wheat	Seed treatment by Fipronil %%SC @ 6 ml/ Kg seed alog with soil application of Fipronil 5 % SC @ 1.6 lit/ ha with irrigation water	SDAU, S K Nagar	Fipronil 5 % SC	600 ml	Rs 750/ -	10	Rs 7500/ -	Termite infestation 9%) Yield (qtl/ha)	Mr G A Patel
8	Lime	Low yield of lime fruits due to heavy incidence of gummosis disease	Assessment of IDM module for the management of gummosis disease in lime	Cutting of dried & diseased twigs after completion of rainy season Application of Bordeaux paste @ 1%  Spraying of Fosatyle 80% WG @ 20gm./15 lit water immediately after	CCRI, Nagpur	CuSo4, CaCo3 & Fosatyle AL 80% WG	1Kg, 2.5 Kg & 0.250 Kg	Rs 775/ -	10	Rs 7750/ -	Disease incidence (%) Yield (qtl/ha)	Mr G A Patel

				the cutting of dry / disease twigs of the plants (3 sprays in 12-15 days interval) for management of gummosis disease management								
09		Low milk yield due to negative energy balance	Assessment of bypass fat (rumen protected fat) in diets of cross breed cows	Use of bypass fats (100 gm/day/animal) in diets of cross breed cows	NDRI, Karnal	bypass fat	10 Kg	Rs 1500 /-	10	Rs 15000 /-	Milk production (Lit/Day) Fat %	Dr S j patel
10	Buffalo	Low milk yield of in buffalo due to imbalance feeding	Assessment of bypass protein on milk production in Mehsani buffalo	Use of green fodder, dry fodder, concentrate with bypass protein concentrate @ 1 kg per day per animal for 60 days	AAU, Anand (2010)	bypass protein	60 Kg	Rs 1500 /-	10	Rs 15000 /-	Milk production (Lit/Day) Fat %	Dr S j patel

# C. Technology Refinement during 2018-19 – No

S.No.	Crop/ enterprise	Prioritized problem	Title of OFT	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the OFT(Rs.)	Parameters to be studied	Team members
1				1								
				2								

## 3.3. Frontline Demonstrations

A. Details of FLDs to be organized -

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs with cost (Rs.)	Season and year	Area (ha)	No. of farmers/demon.	Parameters identified
1	Blackgram	GU-1	ICM	Improved variety of black gram (GU-1), seed treatment by fungicide, Seed inoculation with bio fertilizer, RDF, timely application of IPM module	fertilizer- Rs	Kharif, 2018	50	125	No of pods/ plant Yield (qtl/ha)
2	Sunhemp- Castor	GCH-7	INM	Greenmanuring of sunhemp crop. Seed rate@60 kg/ha	Sunhemp seed & Castor Seed Rs 44,375/-	Kharif-2018- 2019	10	25	No of spikelet/ plant Yield (qtl/ha)
3	Castor	GCH-7	ICM	Hybrid variety (GCH-7) +Seed treatment by carbendazim + Mancozeb @ 3 gm/ kg Seed +Soil inoculation of Trichoderma viridae @ 2.5 kg/ha +IPM	pesticide	Kharif, 2018	50	125	No of spikelet/ plant Yield (qtl/ha)
4	Cotton	-	INM	Nitrogen 240 Kg/ha + Phosphorous 40 Kg/ha + Spray 3% Pottasium Nitrate (13-0-45) at the time of Flowering stage, Ball formation stage, Ball development stage	(13-0-45)- Rs 7500	Kharif-2018- 2019	10	25	Yield (qtl/ha)
5	Cotton	-	IPM	Pheromone trap @ 40/ha + One spray of neem oil 1500 ppm@ 1.25 Lit/ha + one spray of spinoced 45 SC @ 3 ml/ 10 lit of water	Neem oil Rs	Kharif-2018- 2019	10		Pink boll worm infestation (%) Yield (qtl/ha)
6	Chickpea	GJG-3	ICM	Improved variety (GJG-3) +Soil inoculation of <i>Trichoderma viridae</i> @ 2.5 kg/ha + Pheroman trap @ 40/ha + RDF + Bio-fertilizer + Profenophos		Rabi, 2018- 19	50		No of pods/ plant Yield (qtl/ha)
7	Mustard	GDM-4	ICM	Improved variety (GDM-4 ) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management	Bio fertilizer	Rabi, 2018- 19	50		No of siliqua/ plant Yield (qtl/ha)

8	Wheat	GW 451	Varietal	GW 451	Seed-	Rabi-2018-	10	25	No of effective tillers/
			Evaluation		Rs 87500 /-	2019			plant
									Yield (qtl/ha)
9	Chilli	Hybrid	Nutrient	Balance use of major plant nutrient	Micronutrient (G4)-	Kharif, 2018	5.0	20	Yield (qtl/ha)
			management	along with foliar application of	Rs – 1600/-				
				micronutrient (G4)					
10	Fennel	GF-12	Varietal	Improved variety GF-12	Seed – Rs 10000/-	Rabi, 2018-	10.0	25	Yield (qtl/ha)
			demonstratio			19			
			n						
11	Fennel	-	IDM	Foliar spay of carbendazim 12% +	Fungicide - Rs	Rabi, 2018-	10	25	Blight disease incidence
				Mancozeb 63% @ 1.5 Kg/ha at 45,60 &	9700/-	19			(%)
				75 DAS					Yield (qtl/ha)
12	Ajwain	GA-2	Varietal	Improved variety GA-2	Seed – Rs 5000/-	Rabi, 2018-	10.0	25	Yield (qtl/ha)
			demonstratio			19			
			n						
13	Cumin	GC-4	Varietal	Improved variety GC-4	Seed – Rs 40625/-	Rabi, 2018-	10.0	25	Yield (qtl/ha)
			demonstratio			19			
			n						
14	Cumin	-	IDM	Seed treatment by Trichoderma viridae	Bio fungicide &	Rabi, 2018-	10.0	25	Wilt disease incidence
				@ 10gm/ Kg Seed along with soil	Vermi compost – Rs	19			(%)
				treatment by T. viridae @ 2.5 Kg/ha	16750/-				Yield (qtl/ha)
15	Kitchen	Hybrids/	H&VC	Cultivation of seasonal vegetable in	_	Kharif, Rabi,	2.0	40	Yield (Kg/ plot)
	garden	Op		backyard for supplementing additional	Rs 12000/-	2018-19			
				vegetable in daily diet					
					T-4-1		207	705	
					Total		297	795	

# **Sponsored Demonstration - No**

Сгор	Area (ha)	No. of farmers

# B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	18	-	750
2	Farmers Training	18	-	450
3	Media coverage	10	-	Mass
4	Training for extension functionaries	7	-	175

## C. Details of FLD on Enterprises

## a. Farm Implements

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

## b. Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators
Feed	Mehsani Buffalo	20	20	Probiotic @20	Milk production/day
supplement				gm/day	
Feed	Mehsani Buffalo	20	20	Mineral mixture	Milk production/day
supplement				@40 gm/day	
Round the year	Cross breed cow	10	10	Seed of fodder	Fodder production (qtl/ha)
green fodder				crop	Milk yield (Lit/Day)

# c. FLD on Other enterprises

Entrprise	Name of the technology demonstrated	No. of Farmer	No.of units	Critical inputs	Performance parameters / indicators

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

		No. of Participants							
Thematic Area	No. of Courses		Others			SC/ST		Ones d Tetal	
		Male	Female	Total	Male	Female	Total	Grand Total	
(A) Farmers & Farm Women		•	•		•				
I Crop Production									
Weed Management	1	20	00	20	05	00	05	25	
Resource Conservation Technologies									
Cropping Systems									
Crop Diversification									
Integrated Farming									
Water management	1	20	00	20	05	00	05	25	
Seed production									
Nursery management									
Integrated Crop Management	4	80	00	80	20	00	20	100	
Fodder production									
Production of organic inputs	2	40	00	40	10	00	10	50	
Il Horticulture									
a) Vegetable Crops									
Production of low volume and high value crops	1	20	0	20	05	00	05	25	
Off-season vegetables									
Nursery raising									
Exotic vegetables like Broccoli									
Export potential vegetables									
Grading and standardization									
Protective cultivation (Green Houses, Shade Net etc.)									
Organic farming									
b) Fruits									
Training and Pruning									
Layout and Management of Orchards									
Cultivation of Fruit									
Management of young plants/orchards									
Rejuvenation of old orchards									
Export potential fruits									
Micro irrigation systems of orchards									
Plant propagation techniques									
c) Ornamental Plants									
Nursery Management									
Management of potted plants	_								
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									

Production and Management technology	d) Plantation crops								
Processing and value addition 9   Tubber crops 9									
Production and Management technology									
Production and Management technology									
Processing and value addition									
Spices									
Production and Management technology	•								
Processing and value addition		03	60	00	60	15	00	15	75
9) Medicinal and Aromatic Plants									
Nursery management									
Production and management technology and value addition	<del></del>								
Past harvest technology and value addition									
III Soil Health and Fertility Management									
Soil and Water Conservation Integrated Nutrient Management Production and use of organic inputs Micro nutrient deficiency in crops Nutrient Use Efficiency Soil and Water Testing Victorian and Management  Dairy									
Soil and Water Conservation		01	20	00	20	05	00	05	25
Integrated Nutrient Management		<u> </u>	<del>  -</del> -			"			
Production and use of organic inputs									
Management of Problematic soils         Micro nutrient deficiency in crops         Micro nutrient deficiency in crops <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency Soil and Water Testing IDAIRY Management Dairy Management Dairy Management Dairy Management Dairy Management Dairy Management Dairy Management Rabbit Management Rabbit Management Rabbit Management Disease Management D	· ·								
Soil and Water Testing									
V Livestock Production and Management   01   20   00   20   05   00   05   25	•								
Dairy Management   Dairy Manag									
Poultry Management   Priggery Management		01	20	00	20	05	00	05	25
Piggery Management									
Rabbit Management/goat									
Disease Management   01   20   00   20   05   00   05   25									
Feed management 03 00 40 40 00 10 10 50 Production of quality animal products  V Home Science/Women empowerment 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 Gender mainstreaming through SHGs Storage loss minimization techniques Value addition 02 00 40 40 00 10 10 50 Income generation activities for empowerment of rural Women Location specific drudgery reduction technologies Rural Crafts		01	20	00	20	05	00	05	25
Production of quality animal products  V Home Science/Women empowerment  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  Gender mainstreaming through SHGs  Storage loss minimization techniques  Value addition  O2  O0  40  40  O0  10  10  50  Income generation activities for empowerment of rural Women  Location specific drudgery reduction technologies  Rural Crafts  O1  O2  O0  O2  O0  O0  O0  O0  O0  O0  O0		03	00	40	40	00	10	10	50
V Home Science/Women empowerment       Image: Company of the contraction of the contrac									
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  Gender mainstreaming through SHGs  Storage loss minimization techniques  Value addition  O2  O0  40  40  O0  10  10  50  Income generation activities for empowerment of rural Women  Location specific drudgery reduction technologies  Rural Crafts  O1  O0  O2  O0  O0  O0  O0  O0  O0  O0  O0									
Designing and development for high nutrient efficiency diet  Minimization of nutrient loss in processing  Gender mainstreaming through SHGs  Storage loss minimization techniques  Value addition  02 00 40 40 00 10 10 50 Income generation activities for empowerment of rural Women  Location specific drudgery reduction technologies  Rural Crafts  01 00 20 00 00 05 05									
Minimization of nutrient loss in processing Gender mainstreaming through SHGs Storage loss minimization techniques Value addition 02 00 40 40 00 10 10 50 Income generation activities for empowerment of rural Women Location specific drudgery reduction technologies Rural Crafts 01 00 20 00 00 00 00 00 00 00 00 00 00 00	Design and development of low/minimum cost diet								
Gender mainstreaming through SHGs	Designing and development for high nutrient efficiency diet								
Gender mainstreaming through SHGs			1						
Storage loss minimization techniques         02         00         40         40         00         10         10         50           Value addition         02         00         40         40         00         10         10         50           Income generation activities for empowerment of rural Women         0			1						
Value addition         02         00         40         40         00         10         10         50           Income generation activities for empowerment of rural Women	Storage loss minimization techniques		1						
Location specific drudgery reduction technologies         01         00         20         20         00         05         05         25	-	02	00	40	40	00	10	10	50
Location specific drudgery reduction technologies         01         00         20         20         00         05         05         25	Income generation activities for empowerment of rural Women								
Rural Crafts 01 00 20 20 00 05 05 25									
Women and child care	Rural Crafts	01	00	20	20	00	05	05	25
	Women and child care								

	1	1	1	1		Т	ı	
VI Agril. Engineering								
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								
VII Plant Protection								
Integrated Pest Management	03	60	00	60	15	00	15	75
Integrated Disease Management	03	60	00	60	15	00	15	75
Bio-control of pests and diseases	01	20	00	20	05	00	05	25
Production of bio control agents and bio pesticides								
VIII Fisheries								
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								
IX Production of Inputs at site								
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								
X Capacity Building and Group Dynamics								
Leadership development								
Group dynamics								
Formation and Management of SHGs								
		<u> </u>	l	l		l	l	

Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII Others (Pl. Specify)								
TOTAL								
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs	01	20	00	20	05	00	05	25
Integrated Farming (Medicinal)				-				
Planting material production								
Organic / botanical pesticide production & uses	01	20	00	20	05	00	05	25
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops	01	20	00	20	00	00	00	20
Training and pruning of orchards								
Value addition	01	00	15	15	00	05	05	20
Production of quality animal products								
Dairying	01	00	20	20	00	05	05	25
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								
Pearl culture Cold water fisheries Fish harvest and processing technology								

Fry and fingerling rearing Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
TOTAL								
(C) Extension Personnel								
Productivity enhancement in field crops	02	50	00	50	00	00	00	50
Integrated Pest Management	02	50	00	50	00	00	00	50
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
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	01	00	20	20	00	00	00	20
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify) - Production Management technology of spices crops	01	20	00	20	00	00	00	20
Any other (Pl. Specify) – Round the year green fodder production	01	20	00	20	00	00	00	20
Any Other (Pl Specify) – Training need assessment	01	20	00	20	00	00	00	20
TOTAL								
G. Total	41	660	155		815	120	35	155

**B. OFF Campus** 

B. OFF Campus		No. of Participants								
Thematic Area	No. of Courses		Others			Grand Total				
		Male	Female	Total	Male	Female	Total			
(A) Farmers & Farm Women	•	•						•		
I Crop Production										
Weed Management										
Resource Conservation Technologies	02	40	00	40	10	00	10	50		
Cropping Systems										
Crop Diversification										
Integrated Farming										
Water management	1	20	00	20	05	00	05	25		
Seed production										
Nursery management										
Integrated Crop Management										
Fodder production										
Production of organic inputs										
Il Horticulture	•				•					
a) Vegetable Crops										
Production of low volume and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization										
Protective cultivation (Green Houses, Shade Net etc.)										
Organic farming of vegetable crops	4	80	00	80	20	00	20	100		
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	01	20	00	20	05	00	05	25		
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards	01	20	00	20	05	00	05	25		
Plant propagation techniques										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
d) Plantation crops										

Processing and value addition 9 Tuber crops 1	Production and Management technology		1					1	
Production and Management technology									
Processing and value addition	•								
Processing and value addition	· · · · · · · · · · · · · · · · · · ·		+						
19   Spices									
Production and Management technology	•								
Processing and value addition									
9) Medicinal and Aromatic Plants									
Nurser   N									
Production and management technology and value addition									
Post harvest technology and value addition									
III Soil Health and Fertility Management									
Soil and Water Conservation									
Soil and Water Conservation   Integrated Nutrient Management   Production and use of organic inputs   Production and the string   Production and Use of Organic inputs   Production and Water Testing   Production and Water Testing									
Integrated Nutrient Management			_						
Production and use of organic inputs			_						
Management of Problematic soils   Micro nutrient deficiency in crops   Nutrient Use Efficiency   O1   00   20   20   00   05   05   25	•								
Micro nutrient deficiency in crops   Nutrient Use Efficiency   O1									
Nutrient Use Efficiency									
Soil and Water Testing		24		00	00	0.0	0.5	0.5	0.5
V Livestock Production and Management   Dairy Management   Dairy Management   Poultry Manag									
Dairy Management   Poultry Management   Poultry Management   Poultry Management   Piggery Management   Piggery Management   Rabbit Management / Joat   Piggery Management   Pig		01	00	20	20	00	05	05	25
Poultry Management   Piggery Management   Rabbit Management /goat   Disease Management /goat   Disease Management   05   60   40   100   15   10   25   12	<u> </u>	T	1				Т	ı	
Piggery Management   Rabbit Management / goat   Disease Management   O5   60   40   100   15   10   25   125									
Rabbit Management /goat									
Disease Management   05   60   40   100   15   10   25   125									
Feed management									
Production of quality animal products   V Home Science/Women empowerment				_			_		_
V Home Science/Women empowerment         Household food security by kitchen gardening and nutrition gardening         02         00         30         30         00         10         10         40           Design and development of low/minimum cost diet         Designing and development for high nutrient efficiency diet         01         -         15         15         -         05         05         20           Management of store grain paste         01         -         18         18         -         02         02         20           Gender mainstreaming through SHGs         01         -         15         15         -         05         05         20           Storage loss minimization techniques         02         00         30         30         00         10         10         40		01	00	20	20	00	05	05	25
Household food security by kitchen gardening and nutrition gardening 02 00 30 30 00 10 10 40  Design and development of low/minimum cost diet									
Design and development of low/minimum cost diet   Designing and development for high nutrient efficiency diet   Minimization of nutrient loss in processing   O1   -   15   15   -   05   05   20	· ·	-	•						
Designing and development for high nutrient efficiency diet		02	00	30	30	00	10	10	40
Minimization of nutrient loss in processing         01         -         15         15         -         05         05         20           Management of store grain paste         01         -         18         18         -         02         02         20           Gender mainstreaming through SHGs         01         -         15         15         -         05         05         20           Storage loss minimization techniques         02         00         30         30         00         10         10         40									
Management of store grain paste       01       -       18       18       -       02       02       20         Gender mainstreaming through SHGs       01       -       15       15       -       05       05       20         Storage loss minimization techniques       02       00       30       30       00       10       10       40									
Gender mainstreaming through SHGs	Minimization of nutrient loss in processing	01	-	15	15	-	05	05	20
Storage loss minimization techniques         01         13         13         03         03         20           Value addition         02         00         30         30         00         10         10         40	Management of store grain paste	01	-	18	18	-	02	02	20
Value addition         02         00         30         30         00         10         10         40	Gender mainstreaming through SHGs	01	-	15	15	-	05	05	20
Value addition         02         00         30         30         00         10         10         40	Storage loss minimization techniques								
Income generation activities for empowerment of rural Women	Value addition	02	00	30	30	00	10	10	40
	Income generation activities for empowerment of rural Women								

Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care	01	-	15	15	-	05	05	20
VI Agril. Engineering								
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								
VII Plant Protection								
Integrated Pest Management	03	60	00	60	15	00	15	75
Integrated Disease Management	02	40	00	40	10	00	10	50
Bio-control of pests and diseases	02	20	20	40	05	05	10	50
Production of bio control agents and bio pesticides								
VIII Fisheries								
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								
IX Production of Inputs at site								
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								

X Capacity Building and Group Dynamics								
Leadership development								
Group dynamics	01	20	00	20	05	00	05	25
Formation and Management of SHGs(HS)	01	20	00	20	05	00	05	25
Mobilization of social capital								
Entrepreneurial development of farmers/youths (Agro.)								
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
XII Others (Pl. Specify)								
TOTAL	34	400	243	643	100	67	167	810

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

		No. of Participants								
Thematic Area	No. of Courses		Others			SC/ST		Grand Total		
		Male	Female	Total	Male	Female	Total	Granu Iolai		
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	01	20	00	20	05	00	05	25		
Resource Conservation Technologies	02	40	00	40	10	00	10	50		
Cropping Systems										
Crop Diversification										
Integrated Farming										
Water management	02	40	00	40	10	00	10	50		
Seed production										
Nursery management										
Integrated Crop Management	04	80	00	80	20	00	20	100		
Fodder production										
Production of organic inputs	02	40	00	40	10	00	10	50		
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	01	20	00	20	05	00	05	25		
Off-season vegetables										
Nursery raising										
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization										
Organic farming in vegetable crops	04	80	00	80	20	00	20	100		

Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit	01	20	00	20	05	00	05	25
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards	01	20	00	20	05	00	05	25
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology	03	60	00	60	15	00	15	75
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management	01	20	00	20	05	00	05	25
Soil and Water Conservation								
Integrated Nutrient Management	02	40	00	40	10	00	40	50
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency	01	20	00	20	05	00	05	25
Soil and Water Testing	01	20	00	20	05	00	05	25
V Livestock Production and Management								
Dairy Management	01	20	00	20	05	00	05	25
Poultry Management								
Piggery Management Rabbit Management/goat								

Disease Management	06	80	40	120	20	10	30	150
Feed management	04	00	80	80	00	20	20	100
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	02	00	30	30	00	10	10	40
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing	01	00	15	15	00	05	05	20
Gender mainstreaming through SHGs	01	00	15	15	00	05	05	20
Storage loss minimization techniques								
Value addition	04	00	70	70	00	20	20	90
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts	01	00	20	20	00	05	05	25
Women and child care	01	00	15	15	00	05	05	20
Management of store grain pest	01	00	18	18	00	02	02	20
VI Agril. Engineering								
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								
VII Plant Protection								
Integrated Pest Management	06	120	00	120	30	00	30	150
Integrated Disease Management	05	100	00	100	25	00	25	125
Bio-control of pests and diseases	03	40	20	60	10	05	15	75
Production of bio control agents and bio pesticides								
VIII Fisheries								
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								
IX Production of Inputs at site								

Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production				1				
Organic manures production				1				
Production of fry and fingerlings				1				
Production of Try and Imgerlings Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder				1				
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development					_	_	_	_
Group dynamics	01	20	00	20	05	00	05	25
Formation and Management of SHGs	01	20	00	20	05	00	05	25
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
Sponsored training								
TOTAL	64	920	323	1243	230	87	347	
	04	920	323	1243	230	67	347	
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs	01	20	00	20	05	00	05	25
Integrated Farming								
Planting material production								
Organic / botanical pesticide production & uses	01	20	00	20	05	00	05	25
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops	01	15	00	15	05	00	05	20
Training and pruning of orchards		1		1				
				1	L	l	l	

Value addition	01	00	15	15	00	05	05	20
Production of quality animal products								
Dairying	01	00	20	20	00	05	05	25
Sheep and goat rearing								
Rural Crafts								
TOTAL	5	55	35	90	15	10	25	115
(C) Extension Personnel								
Productivity enhancement in field crops	02	50	00	50	00	00	00	50
Integrated Pest Management	02	50	00	50	00	00	00	50
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
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	01	00	20	20	00	00	00	20
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify) – Production management of spices crop	01	15	00	15	00	00	00	15
Any other (Pl. Specify- Round the year green fodder production	01	20	00	20	00	00	00	20
Any other (Pl. Specify- Training need assessment	01	20	00	20	00	00	00	20
Total	8	155	20	175	0	0	0	175
G. TOTAL	77	1130	378	1508	245	97	372	1850

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

Nature of Extension Activity No. of activities		Farmers			Е	xtension Officia	ls	Total			
Nature of Extension Activity		Male	Female	Total	Male	Female	Total	Male	Female	Total	
Field Day	18	720	30	750	15	00	15	735	30	765	
KisanMela											
KisanGhosthi	03	120	20	140	10	00	10	105	20	125	

Total	540	3370	495	3865	182	0	182	3527	495	4022
Any Other (Specify)- Clean India Campaign	05	100	50	150	10	00	10	110	50	160
Celebration of important days (specify)	04	150	50	200	10	00	10	160	50	210
Animal Health Camp	04	90	25	115	10	00	10	100	25	125
Soil health Camp	01	50	00	50	02	00	02	52	00	52
Ex-trainees Sammelan	02	50	10	60	00	00	00	50	10	60
Exposure visits	01	30	00	30	00	00	00	30	00	30
Diagnostic visits	10	80	10	90	10	00	10	90	10	100
Farmers visit to KVK	300									
Scientific visit to farmers field	120	950	100	1050	00	00	00	950	100	1050
Advisory Services										
Extension Literature	08	Mass								
Popular articles	10	Mass								
TV talks	02	Mass								
Newspaper coverage	15	Mass								
Lectures delivered as resource persons	18	500	100	600	50	00	50	550	100	650
Group meetings	04	60	20	80	00	00	00	60	20	80
Workshop										
Farmers Seminar	01	50	00	50	05	00	05	55	00	55
Film Show	12	300	50	350	50	00	50	350	50	400
Exhibition	02	120	30	150	10	00	10	130	30	160

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

### SEED MATERIALS

Sl. No.	Сгор	Variety	Quantity (qtl.)
CEREALS			
	Wheat	GW-451	50
	S.Bajara	GHB-558	20
OILSEEDS			
	Castor	GCH-7 Green manuring (Sunnhamp)	70
	Mustard	GDM-4	09
PULSES			
	Green-gram	GM-4	04
	Black-gram	GU-1	05
VEGETABLES	Cucumber	Hybrid	
	Bottle guard	Hybrid	-
	Brinjal	Hybrid	-
OTHERS (Specify)	Tobacco	GCT-3, DCT-4	60
Fruit plant	Lemon	Kagzi lime	Fruiting
-	Mango	Kesar	condition
	Chiku	Kalipatti	
	Pomegranate	Sinduri	

#### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
	Lime	Kagzi lime	5000
	Papaya	Madhubindu	1000

SPICES			
VEGETABLES			
OTHERS	Tobacco	DCT-4	100000
ORNAMENTAL CROPS	Rose, Pendula etc.	-	1000
		Total	107000

### **Bio-products**

SI. No.	Product Name	Species		Quantity
			No	(kg)
BIO PESTICIDES				
Compost	Vrmi compost	I foetida	-	4000
2				

#### LIVESTOCK

SI. No.	Туре	Breed	Quantity	
			(Nos)	Unit
Cattle				

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

\_\_\_\_\_\_

Date of start :

Number of copies to be published :

### B. Literature developed/published

S.No.	Торіс	Number
1	Research paper each scientist	05
2	Technical reports	-
3	News letters	01
4	Training manual all discipline	-
5	Popular article	10
6	Extension literature	08
	Total	

#### C. Details of Electronic Media to be produced

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

D.Success stories/Case studies ide	entified 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

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

#### A. Practicing Farmers

- a) Bench mark survey
- b) PRA
- c) Field visit
- d) Group Discussion etc

#### **B. Rural Youth**

- a) Field visit
- b) PRA
- c) Training
- d) Group discussion

#### C. In-service personnel

- a) Field visit/ Diagnostic visit
- b) SAC meeting

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

#### For OFT:

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

#### For FLD:

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

#### 5.3. Field activities

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

#### 6. LINKAGES

#### 6.1. Functional linkage with different organizations

SI.No.	Name of organization	Nature of Linkage (pl. specify)
1.	Sardarkrushinagar Dantiwada Agril. University, S.K.Nagar	-Linkage for seasonal training cum workshop of kharif, Rabi and summer crops.
		-Linkage for various demonstration of farm technology.
		-Linkage for diagnostic services
		-Technical guidance
2.	Agril. Department Gujarat State, Patan	-Linkage for exchange of information regarding farming.

		-Linkage for training programme of seasonal crops for practicing farmers.
		-Linkage for training of extension functionaries.
3.	Gujarat State Fertilizer & Chemical Ltd. Sidhpur	-linkage for demonstration about efficient and proper use of chemical fertilizer and importance of bio-fertilizer.
		-Linkage for soil and water analysis and training programme to farmers
4.	G.N.F.C. Sidhpur	-Linkage for soil and water analysis.
		-Linkage for farmer training programme
5.	Department of Animal Husbandry, Gujarat State, Patan Dudhsagar Dairy, Mehsana	-Linkage for training of management of milking animal & steps to solve the burning problem of cattle owner.
		-Linkage for training to Ext. functionaries.
6.	Dept. of Horticulture Gujarat State, Patan	To create awareness regarding different schemes of Horticulture development.
		-To increase the awareness about protective cultivation in shade net
7.	Farmers Training Centre, Patan	-linkage for imparting training to farmers & farm women & rural youth
8.	ICDS Patan	In-service training programme and sponsored training programme
9.	ATMA Patan	-Seasonal training programme
		-Demonstration of Agril. technology
10.	IWMP, Patan	Imparting training to the extension functionaries, farmers & farm women about soil reclamation & other enterprises
11	NABARD, Patan	Training to members of farm science club
12	Reliance	Quick delivery of message in large scale through Kisan Mobile sandesh

## 6.2. Details of linkage with ATMA

a) Is ATMA implemented in your district

Yes/No - Yes

S. No.	Programme	Nature of linkage
1		
2		

### **6.3.E-linkage during 2018-19**

S. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any

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

S. No.	Programme	Nature of linkage
1		
2		

### 6.5. Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage
1		
2		

### 6.6.Additional Activities Planned including sponsored projects (ProCRA / Pro SOIL etc.) / schemes during 2018-19

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved

### 7.0 Convergence with other agencies and departments:

#### 8. Innovator Farmer's Meet 2018- 2019

Sl.No.	Particulars	Details
	Are you planning for conducing Farm Innovators meet in your district?	Yes/ No
	If Yes likely month of the meet	
	Brief action plan in this regard	

### 9. Farmers Field School (FFS) planned 2018-2019

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

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

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

#### 11. Utilization of hostel facilities

S. No.	Programme	No. of days
1		
	Total	

#### 12. ACTION PLAN OF INFRASTRUCTURE IN KVK

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

SI. No.	Demo Unit	Year of	Area	Details of production (expected)		Expected Ar	mount (Rs.)	Remarks	
	Demo onit	establishment	(ha)	Variety	Produce	Qty.	Cost of inputs	Gross income	nemarks
1	Vermi compost	2003	200 M <sup>2</sup>						Vermi compost production
2	Azolla	2016-17	02 Pit						Demo purpose
5	Nursery	2012-13	4000M <sup>2</sup>					Supply of quality sample	
6	IFS	2016-17	1.0 ha						Demo purpose

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

Name	Area (ha)	Detail	s of production (expected)		Expected A	Domonico	
of the crop	Ar (h	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
Cereals							
Wheat	1.50	GW-451					
S.Bajara	0.75	GHB-558					
Pulses							
Green-gram	0.5	GM-4					
Black-gram	0.5	GU-1					
Oilseeds							
Castor	6.0	GCH-7					

Mustard	0.75	GDM-4			
Floriculture					
Rose, Pendula etc.					
Fruits					
Lemon	2.70	Kagzi lime			
Mango	0.95	Kesar			
Chiku	0.60	Kalipatti			
Pomegranate	0.50	Sinduri			
Vegetables					
Cucumber	0.25				
Bottle guard	0.25				
Brinjal	0.25				
Others (specify)					
Tobacco		GCT-3 DCT-4	1.75		

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

SI.	Name of the Product	Oty (ovposted)	Expected A	Expected Amount (Rs.)		
No.	Name of the Floudt	Qty (expected)	Cost of inputs	Gross income	Remarks	
1	Vermi compost	4000 Kg				

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

SI.	Name	Details o	of production (expected)		Expected A	mount (Rs.)	
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Remarks	
1							

## **Training Programme**

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

Date	Clientele	Title of the training programme	Duration	1	Number	of	Numl	ber of S	C/ST	G.
			in days	p	articipa	nts				Total
				M	F	T	M	F	T	
<b>Crop Producti</b>	ion									
May, 2018	PF	Production management technology of cotton	01	20	-	20	05	-	05	25
July, 2018	PF	Production management technology of castor	01	20	-	20	05	-	05	25
August, 2018	PF	Irrigation & nutrient management in castor	01	20	-	20	05	-	05	25
June, 2018	PF	Organic farming in pulses- Black gram, Green gram & Chickpea	01	20	-	20	05	-	05	25
August, 2018	PF	Integrated weed management in field crop	01	20	-	20	05	-	05	25
Sept, 2018	PF	Production management technology of mustard	01	20	-	20	05	-	05	25
Oct., 2018	PF	Production management technology of wheat	01	20	-	20	05	-	05	25
Jan., 2019	RY	Importance & future of organic farming	01	20	-	20	00	-	00	20
Horticulture										
August, 2018	PF	Production Management technology of chilli	01	20	-	20	05	-	05	25
Sep., 2018	PF	Production Management technology of fennel	01	20	-	20	05	-	05	25
Oct.,2018	PF	Production Management technology of ajwain	01	20	-	20	05	-	05	25
Nov., 2018	PF	Production Management technology of cumin	01	20	-	20	05	-	05	25
July, 2018	RY	Nursery Management of Horticulture crops	01	20	-	20	00	-	00	20
Livestock prod	d.	•	ı		ı		L	I .		
August, 2018	PF	Care & management of dairy animals during pregnancy period	01	_	20	20	-	05	05	25

Sep., 2018	PF	Dairy animal calves disease management	01	20	-	20	05	-	05	25
Oct., 2018	PF	Importance of vitamins and minerals as feed supplement in dairy animals	01	-	20	20	-	05	05	25
December, 2018	PF	Importance of Probiotic feed supplement in dairy animals	01	-	20	20	-	05	05	25
Jan., 2019	PF	Production of quality animal products	01	20	-	20	05	-	05	25
Agril. Engg.				I			·L			
Home Sc.										
May, 2018	PF	Preparation and preservation of mango products	01	20	-	20	05	-	05	25
Oct., 2018	PF	Preparation of decorative items from waste materials	01	20	-	20	05	-	05	25
Dec., 2018	PF	Preparation and preservation of aonla products	01	20	-	20	05	-	05	25
Plan prot.						1	I			
April-17	PF	Importance & method of soil solerization & rubbing for the management of pest	01	20	-	20	05	-	05	25
June-17	PF	Integrated pest management in Bt cotton	01	20	-	20	05	-	05	25
July-17	PF	Identification & use of bio control agent for management of pest & diseases in filed crop	01	20	-	20	05	-	05	25
Sept-17	PF	Plant protection in lime	01	20	-	20	05	-	05	25
Oct-17	PF	Integrated pest & disease management in cumin	01	20	-	20	05	-	05	25
Oct-17	PF	Integrated pest & disease management in fennel	01	20	-	20	05	-	05	25
Nov17	PF	Plant protection measure in rabi pulses	01	20	-	20	05	-	05	25
Dec., 2018	RY	Production & use of bio pesticide	01	20	-	20	05	-	05	25
Fisheries Plant	protection	n measure in lime		1						

	PF									
Soil Health										
May, 2018		Importance of Soil testing & method of soil sample collection	01	20	-	20	05	-	05	25
June, 2018	PF	Importance & use of liquid bio fertilizer	01	20	-	20	05	-	05	25

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

Date	Clientele	Title of the training programme	Duration	No.	of partic	ipants	Num	ber of S(	C/ST	G. Total
			in days	M	F	T	M	F	T	
<b>Crop Product</b>	ion		·							
June, 2018	PF	INM in Cotton	01	20	-	20	05	-	05	25
July, 2018	PF	INM in castor	01	20	-	20	05	-	05	25
Nov., 2018	PF	Importance of MIS in field crop	01	20	-	20	05	-	05	25
Horticulture			1		•	1			· II	
Oct., 2018	PF	Importance & use of MIS in horticultural crops	01	20	-	20	05	-	05	25
June, 2018	PF	Organic farming of Papaya	01	20	-	20	05	-	05	25
Aug-17	PF	INM in chilli	01	20	-	20	05	-	05	25
Nov-17	PF	INM in Potato	01	20	-	20	05	-	05	25
Feb., 2019	PF	Organic farming of cowpea & clusterbean	01	20	-	20	05	-	05	25
Jan., 2019	PF	Organic Farming of watermelon	01	20	-	20	05	-	05	25
Live Stock Pr	oduction.		1		•	1				
May, 2018	PF	Azolla as a animal feed	01	-	20	20	-	05	05	25
June, 2018	PF	Care and Management of H S disease in dairy animals	01	20	-	20	05	-	05	25
July, 2018	PF	Economic importance of Vaccination and Deworming in dairy animals	01	_	20	20	-	05	05	25

Nov., 2018	PF	Care and Management of Mastitis disease in dairy animals	01	20	-	20	05	-	05	25
Dec., 2018	PF	Care and Management of Foot and Mouth disease in dairy animals	01	-	20	20	-	05	05	25
Feb., 2018	PF	Management of Infertility problems in Dairy animals	01	20	-	20	05	-	05	25
Nov., 2018	RY	Dairy product	02	-	20	20	-	05	05	25
Agril. Engg.	l					I				
	PF									
Home Sc.										
April-18	FW	Management of store grain pase	01	-	18	18	-	02	02	20
July-18	FW	Importance and techniques of kitchen gardening	01	-	15	15	-	05	05	20
Sep. 2018	PF	Minimization of nutrient loss in processing	01	-	15	15	-	05	05	20
Oct., 2018	FW	Importance and techniques of kitchen gardening	01	-	15	15	-	05	05	20
Nov.,	PF	Dehydration / preservation of green leafy vegetable- Spinach & Methi	01	-	15	15	-	05	05	20
Jan., 2019	PF	Formation & Management of SHG	01	-	15	15	-	05	05	20
Feb., 2019	PF	Women & Child care	01	-	15	15	-	05	05	20
Dec., 2018	RY	Preparation of Khakhra making	02	-	15	15	-	05	05	20
<b>Plant Protectio</b>	n			<u> </u>			1			
August, 2018	PF	Plant protection measures in Kharif pulses	01	20	-	20	05	-	05	25
Sep., 2018	PF	Integrated pest & disease management in castor	01	20	-	20	05	-	05	25
Dec., 2018	PF	Plant protection in Poatao	01	20	-	20	05	-	05	25
Dec., 2018	PF	Plant protection measures in mustard	01	20	-	20	05	-	05	25
Nov., 2018	PF	Integrated pest & disease management in rabi pulses	01	20	-	20	05	-	05	25

Janu., 2019	PF	Bio control measures in cumin for disease	01	20	-	20	05	-	05	25
		management								
Sep., 2018	PF	Bio control measures in chickpea for disease	01	20	-	20	05	-	05	25
		management								
Fisheries										
Soil health										
May., 2018	PF	Importance & soil testing & method of soil sample	01	20	-	20	05	-	05	25
		collection								
Dec., 2018	PF	Importance & use of liquid fertilizer in field crop	01	20	1	20	05	-	05	25
Capacity Buildin	ng and Gro	oup Dynamics								
July, 2018	PF	Group dynamics	01	20	00	20	05	00	05	25
Jan., 2019	PF	Formation and Management of SHGs(HS)	01	20	00	20	05	00	05	25

ii) Vocational training programmes for Rural Youth

Crop /	Identified Thrust Area	Training title*	Month	Duration	No. of Participants			SC/ST rticipa		G.Total	
Enterprise	Identified Tiffust Area	Training due	Month	days)		F	T	M	F	T	
Tailoring	Tailoring stitching	Tailoring course in women and children garments	May	60	-	10	10	-	-	-	10
Nursery	Nursery raising	Nursery raising for vegetable crops	June	06	1	10	10	-	05	05	15
Organic manure	Production of organic inputs	Vermi compost production technology	Sept	06	13	1	13	02	1	02	15
LPM		Importance & technique of artificial insemination in dairy animals	Dec	06	13	-	13	02	-	02	15

## iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration	No. of		f	Nu	mbe	r of	G.
			in days	participants		ants		SC/S	T	Total
				M	F	T	M	F	T	
On Campus										
May., 2018	VLW /Extension officer	Production technology of castor & Cotton	01	25	00	25	00	00	00	25
Sep., 2018	VLW /Extension officer	Production technology of Mustard	01	25	00	25	00	00	00	25
Jun., 2018	VLW /Extension officer	IPM module in kharif crops	01	25	00	25	00	00	00	25
Oct., 2018	VLW /Extension officer	IPM module in Rabi crops	01	25	00	25	00	00	00	25
Oct., 2018	ATMA STAFF -Patan	Production technology and management of	01	15	0	15	0	0	0	15
		spices crops								
July., 2018	Dairy mantri/ Pramukh	Round the year green fodder production	01	15	0	15	05	0	05	20
August., 2018	Aganwadi worker	Care & Nutrition for children & pregnant	01	0	20	20	0	0	0	20
		women								
Feb., 2018	ATMA STAFF -Patan	Training need assessment	01	15	0	15	0	0	0	15

## $iv) \ Sponsored \ programme$

Discipline	Sponsoring	Clientele	Title of the training programme	No. of course		No. of		Number of			G.
	agency				participants		nts	SC/ST			Total
					M	F	T	M	F	T	
a) Sponsore	ed training progdra	ımme									
Crop Production	G.S.F.C./ G.N.F.C.		Selection & method of application of chemical fertilizer and its efficient use	01	25	-	25	05	-	05	30
Crop Production	ATMA Patan	PF	Integrated nutrient management in castor	01	25	-	25	05	-	05	30
Horticul-ture	Horticulture Dept. Patan		Scientific cultivation of pomegranate & Papaya	01	30	-	30	. 1	-	ı	30

Plant Protection	F.T.C. Patan		Integrated pest & diseases management of Rabi crops	01	30	-	30	-	-	1	30
Home Science	ATMA Patan	FW	Fruit and vegetable preservation techniques	01	-	25	25	-	05	05	30
b) Sponsore	d research progra	mme									
			Total								
c) Any spec	ial programmes										
			Total								

Budget - Details of budget utilization (2017-18) up to 31 March 2018

S.No.	Particulars	Sanctioned	Released	Expenditure
13.1	Recurring Contingencies			
13.1.1	Pay & Allowances	140.00	140.00	135.93
13.1.2	Traveling allowances	0.90	0.90	0.90
13.1.3	Contingencies			
13.1.4.1	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance		3.00	1.44
В	POL, repair of vehicles, tractor and equipments			1.46
С	Meals/refreshment for trainees			0.66
D	Training material			0.19
Ε	Frontline demonstration except oilseeds and pulses	7.50		2.66
F	On farm testing		4.50	0.68
G	Training of extension functionaries		4.50	0.10
Н	Maintenance of buildings			00
1	Establishment of Soil, Plant & Water Testing Laboratory			00
J	Library			00
13.1	Total Recurring			
13.2	Non-Recurring Contingencies	00	00	00
13.2.1	Works	00	00	00
13.2.2	Equipments including SWTL & Furniture	00	00	00
13.2.3	Vehicle (Four wheeler/Two wheeler, please specify)	00	00	00
24.2.4	Library	00	00	00
13.2	Total Non Recurring	00	00	00
13.3	REVOLVING FUND	00	00	00
13.4	GRAND TOTAL (A+B+C)	148.40	148.40	144.02

Details of Budget Estimate (2018-19) based on proposed action plan

S.No.	Particulars	BE 2018-19 (Rs.)
14.1	Recurring Contingencies	
14.1.1	Pay & Allowances	1,50.00,000/-
14.1.2	Traveling allowances	1,50,000/-
14.1.3	Contingencies	
Α	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	3,50.000/-
В	POL, repair of vehicles, tractor and equipments	
С	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	8,00,000/-
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	
Ε	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	
G	Training of extension functionaries	
Н	Maintenance of buildings	
1	Establishment of Soil, Plant & Water Testing Laboratory	
J	Library	
14.1	TOTAL Recurring Contingencies	1,63,00,000/-
14.2	Non-Recurring Contingencies	
14.2.1	Works	9,50,000/-
14.2.2	Equipments including SWTL & Furniture	7,45,000/-
14.2.3	Vehicle (Four wheeler/Two wheeler, please specify)	8,00,000/-
14.2.4	Library (Purchase of assets like books & journals)	10,000/-
14.2	TOTAL Non-Recurring Contingencies	25,05,000/-
14.3	REVOLVING FUND	-
14.4	GRAND TOTAL	1,88,05,000/-