# **ACTION PLAN**

(OCTOBER 2008 TO SEPTEMBER 2009)

**OF** 

# KRISHI VIGYAN KENDRA JAMNAGAR

TO BE PRESENTED AT
ANNUAL ZONAL WORKSHOP
OF
ZONE-VI
(Rajasthan & Gujarat)

#### PREPARED/COMPILED By

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**GUJARAT** 



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#### ANNUAL ACTION PLAN OCTOBER-2008 TO SEPTEMBER-2009 QUARTER WISE SUMMARY OF TRAINING PROGRAMME OF KVK, JAU, JAMNAGAR

#### 1. TRAINING

		Sep   Oct   Nov   Dec													
Sr.						2009	)				:	2008	3		
No.	Subject	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	т.	
	Farmers & Farm Women														
1	Crop production	0	1	0	1	1	1	1	0	0	1	1	1	8	
2	Horticulture	0	0	1	1	0	0	0	0	0	0	1	0	3	
3	Soil health & Fertility	1	0	0	1	2	0	1	1	0	0	0	0	6	
4	Live stock production & management	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Home science	1	1	0	1	1	0	1	0	0	0	2	1	8	
6	Agril Engineering	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	Plant protection	2	0	0	0	0	0	3	5	5	3	2	2	22	
8	Fisheries	0	0	0	1	0	1	1	1	0	0	0	0	4	
9	Production of Input at site	1	0	1	0	1	0	0	0	0	2	0	1	6	
10	Capacity Building and Group Management	1	0	0	1	1	0	0	0	0	0	0	0	3	
11	Agro-foreshtry	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total Farmers & Farm Women	6	2	2	6	6	2	7	7	5	6	6	5	60	
	Rural Youth	1	1	1	2	1	0	0	0	0	1	1	0	8	
	Extesnion Personals	0	0	0	0	0	0	1	1	0	0	0	0	2	
	Grand Total	7	3	3	8	7	2	8	8	5	7	7	5	70	

		n         0         0         0         2         0         2         0         0         0         0         1         0           0         0         1         1         0													
Sr.						2009	•					2008	,		
No.	Subject	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	т.	
	Farmers & Farm Women														
1	Crop production	0	0	0	2	0	2	0	0	0	0	1	0	5	
2	Horticulture	0	0	1	1	0	0	0	0	0	0	0	0	2	
3	Soil health & Fertility	0	1	0	1	0	0	1	0	0	0	0	0	3	
4	Live stock production & management	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Home science	1	1	0	1	1	0	1	0	1	1	2	0	9	
6	Agril Engineering	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	Plant protection	1	0	0	0	0	0	2	3	4	4	3	1	18	
8	Fisheries	0	0	0	0	0	0	1	2	0	0	0	0	3	
9	Production of Input at site	0	1	1	1	1	0	0	0	0	2	0	0	6	
10	Capacity Building and Group Management	1	1	0	1	0	0	0	0	0	0	0	0	3	
11	Agro-foreshtry	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total Farmers & Farm	_	4	_	7			5	ı	5	7			40	
	Women	3	4	2	7	2	2		5		-	6	1	49	
	Rural Youth	0	0	0	1	2	1	0	0	0	0	0	0	4	
	Extesnion Personals	0	0	0	0	0	0	0	1	0	0	1	0	2	
	Grand Total	3	5	4	8	2	2	5	6	5	7	7	1	55	

		2     1     0     2     1     0     0     0     0     0     0     0       0     0     0     0     0     0     0     0     0     0     0													
Sr.												2008			
No.	Subject	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	T.	
	Farmers & Farm Women														
1	Crop production	0	1	0	3	1	3	1	0	0	1	2	1	13	
2	Horticulture	0	0	2	2	0	0	0	0	0	0	1	0	5	
3	Soil health & Fertility	1	1	0	2	2	0	2	1	0	0	0	0	9	
4	Live stock production & management	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Home science	2	2	0	2	2	0	2	0	1	1	4	1	17	
6	Agril Engineering	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	Plant protection	3	0	0	0	0	0	5	8	9	7	5	3	40	
8	Fisheries	0	0	0	1	0	1	2	3	0	0	0	0	7	
9	Production of Input at site	1	1	2	1	2	0	0	0	0	4	0	1	12	
10	Capacity Building and Group Management	2	1	0	2	1	0	0	0	0	0	0	0	6	
11	Agro-foreshtry	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total Farmers & Farm Women	9	6	4	13	8	4	12	12	10	13	12	6	109	
	Rural Youth	1	1	1	3	3	1	0	0	0	1	1	0	12	
	Extesnion Personals	0	0	0	0	0	0	1	2	0	0	1	0	4	
	Grand Total	10	8	7	16	9	4	13	14	10	14	14	6	125	

#### A. Training programmes (In details):

Quarterwise training programmes on various aspects related to Agricultural technology based on thrust areas will be organized during the year 2008-2009. Details of training programme is as under.

A.1. On Campus Training Programme: (for practicing farmers, farm women & rural youth)

				No	o. of	Cou	rses	(ON	CA	MPU	S)		
Thomastic Area		•	•	2	2009					2	2008		
Thematic Area	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
(A) Farmers & Farm Women													
I Crop Production													
Weed Management		1				1	1				1		4
Resource Conservation Technologies													0
Cropping Systems													0
Crop Diversification													0
Integrated Farming					1								1
Water management												1	1
Seed production				1						1			2
Nursery management													0

Integrated Crop Management													0
Fodder production													0
Production of organic inputs													0
Total	0	1	0	1	1	1	1	0	0	1	1	1	8
II Horticulture													
a) Vegetable Crops													0
Production of low volume and													0
high value crops													
Off-season vegetables													0
Nursery raising			1										1
Exotic vegetables like Broccoli													0
Export potential vegetables													0
Grading and standardization													0
Protective cultivation (Green Houses, Shade Net etc.)													0
b) Fruits													0
Training and Pruning													0
Layout and Management of Orchards													0
Cultivation of Fruit													0
Management of young plants/orchards													0
Rejuvenation of old orchards													0
Export potential fruits													0
Micro irrigation systems of orchards													0
Plant propagation techniques													0
c) Ornamental Plants													0
Nursery Management				1									1
Management of potted plants													0
Export potential of ornamental plants													0
Propagation techniques of Ornamental Plants													0
d) Plantation crops													0
Production and Management technology													0
Processing and value addition													0
e) Tuber crops													0
Production and Management technology													0
Processing and value addition													0
f) Spices													0
Production and Management technology											1		1
Processing and value addition													0
g) Medicinal and Aromatic Plants													0
Nursery management													0

Production and management													0
technology													
Post harvest technology and value addition													0
Total	0	0	1	1	0	0	0	0	0	0	1	0	3
III Soil Health and Fertility													1
Management													<u></u>
Soil fertility management					2								2
Soil and Water Conservation	1			1									2
Integrated Nutrient													0
Management													
Production and use of organic inputs													0
Management of Problematic													
soils													0
Micro nutrient deficiency in								1					1
crops							1						
Nutrient Use Efficiency							1						1
Soil and Water Testing													0
Total	1	0	0	1	2	0	1	1	0	0	0	0	6
IV Livestock Production and													
Management													
Dairy Management													0
Poultry Management													0
Piggery Management													0
Rabbit Management													0
Disease Management													0
Feed management													0
Production of quality animal													0
products													
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
V Home Science/Women													
empowerment													<u> </u>
Household food security by kitchen gardening and													0
nutrition gardening													
Design and development of													
low/minimum cost diet							1						1
Designing and development													·
for high nutrient efficiency													0
diet Minimization of nutrient loss													
in processing													0
Gender mainstreaming													
through SHGs													0
Storage loss minimization													0
techniques													
Value addition	1	1			1						1	1	5
Income generation activities for empowerment of rural				1									1
Women				1									1
	1	1	l	l	<u> </u>	L	L	l	L	L	l	ı	

Location specific drudgery reduction technologies													0
Rural Crafts													0
Women and child care											1		1
Total	1	1	0	1	1	0	1	0	0	0	2	1	8
VI Agril. Engineering													
Installation and maintenance													
of micro irrigation systems													0
Use of Plastics in farming													0
practices													0
Production of small tools and													0
implements Repair and maintenance of													
farm machinery and													0
implements													
Small scale processing and													0
value addition													0
Post Harvest Technology							_						0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
VII Plant Protection													
Integrated Pest Management	1						1	2	2	2	1	1	10
Integrated Disease Management	1						1	2	2	1	1	1	9
Bio-control of pests and								1	1				0
diseases								1	1				2
Production of bio control agents and bio pesticides							1						1
Total	2	0	0	0	0	0	3	5	5	3	2	2	22
VIII Fisheries													
Integrated fish farming				1									1
Carp breeding and hatchery management													0
Carp fry and fingerling rearing													0
Composite fish culture						1	1						2
Hatchery management and culture of freshwater prawn													0
Breeding and culture of ornamental fishes								1					1
Portable plastic carp hatchery													0
Pen culture of fish and prawn													0
Shrimp farming													0
Edible oyster farming													0
Pearl culture													0
Fish processing and value addition													0
Total	0	0	0	1	0	1	1	1	0	0	0	0	4
IX Production of Inputs at site													
Seed Production					1					1			2

Planting material production													0
Bio-agents production													0
Bio-pesticides production													0
Bio-fertilizer production													0
Vermi-compost production										1			1
Organic manures production	1		1									1	3
Production of fry and													0
fingerlings													
Production of Bee-colonies and wax sheets													0
Small tools and implements													0
Production of livestock feed													0
and fodder													0
Production of Fish feed													0
Total	1	0	1	0	1	0	0	0	0	2	0	1	6
X Capacity Building and													
Group Dynamics				1									1
Leadership development				1									1
Group dynamics													0
Formation and Management of SHGs	1				1								2
Mobilization of social capital													0
Entrepreneurial development													0
of farmers/youths													
WTO and IPR issues													0
Total	1	0	0	1	1	0	0	0	0	0	0	0	3
XI Agro-forestry													
Production technologies													0
Nursery management													0
Integrated Farming Systems													0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)													
TOTAL	6	2	2	6	6	2	7	7	5	6	6	5	60
(B) RURAL YOUTH													
Mushroom Production													0
Bee-keeping													0
Integrated farming													0
Seed production				1	1								2
Production of organic inputs													0
Integrated Farming													0
Planting material production													0
Vermi-culture	1	1								1	1		4
Sericulture													0
Protected cultivation of vegetable crops													0
Commercial fruit production													0

	_												
Repair and maintenance of													
farm machinery and													0
implements													
Nursery Management of Horticulture crops													0
Training and pruning of													_
orchards													0
Value addition			1										1
Production of quality animal													0
products													0
Dairying													0
Sheep and goat rearing													0
Quail farming													0
Piggery													0
Rabbit farming													0
Poultry production													0
Ornamental fisheries													0
													0
Para vets													
Para extension workers													0
Composite fish culture	<u> </u>												0
Freshwater prawn culture				1									1
Shrimp farming													0
Pearl culture													0
Cold water fisheries													0
Fish harvest and processing													0
technology	<u> </u>												U
Fry and fingerling rearing													0
Small scale processing													0
Post Harvest Technology													0
Tailoring and Stitching													0
Rural Crafts													0
TOTAL	1	1	1	2	1	0	0	0	0	1	1	0	8
						_		_	_				
(C) Extension Personnel													
Productivity enhancement in													
field crops							1						1
Integrated Pest Management								1					1
Integrated Nutrient													0
management													0
Rejuvenation of old orchards													0
Protected cultivation													0
technology													
Formation and Management of SHGs													0
Group Dynamics and farmers													_
organization	L		L	L				L					0
Information networking													0
among farmers													
Capacity building for ICT													0
application	<u> </u>		1	1	l		1		<u> </u>	<u> </u>	1		

				1	1	1	1	1					
Care and maintenance of farm machinery and implements													0
WTO and IPR issues													0
Management in farm animals													0
Livestock feed and fodder production													0
Household food security													0
Women and Child care													0
Low cost and nutrient efficient diet designing													0
Production and use of organic inputs													0
Gender mainstreaming through SHGs													0
Any other (Pl. Specify)													0
TOTAL	0	0	0	0	0	0	1	1	0	0	0	0	2
Grand Total	7	3	3	8	7	2	8	8	5	7	7	5	70

# A.2 Off- Campus training (for practicing farmers , farm women & rural youth)

				No	o. of (	Cour	ses (	OFF	CAM	PUS	)		
Thematic Area					2009	9	•				2008	3	Tota
Thematic Mea	Ja n	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	1
(A) Farmers & Farm Women													
I Crop Production													
Weed Management						1					1		2
Resource Conservation Technologies													0
Cropping Systems													0
Crop Diversification				1									1
Integrated Farming													0
Water management						1							1
Seed production				1									1
Nursery management													0
Integrated Crop Management													0
Fodder production													0
Production of organic inputs													0
Total	0	0	0	2	0	2	0	0	0	0	1	0	5
II Horticulture													
a) Vegetable Crops													0
Production of low volume and high value crops													0
Off-season vegetables													0
Nursery raising			1										1
Exotic vegetables like Broccoli													0
Export potential vegetables													0
Grading and standardization													0
Protective cultivation (Green Houses, Shade Net etc.)													0
b) Fruits													0
Training and Pruning													0
Layout and Management of Orchards													0
Cultivation of Fruit													0

Management of young													0
plants/orchards													U
Rejuvenation of old orchards													0
Export potential fruits													0
Micro irrigation systems of orchards													0
Plant propagation techniques													0
c) Ornamental Plants													0
Nursery Management				1									1
Management of potted plants													0
Export potential of ornamental plants													0
Propagation techniques of													0
Ornamental Plants													U
d) Plantation crops													0
Production and Management													0
technology													
Processing and value addition													0
e) Tuber crops													0
Production and Management													0
technology													
Processing and value addition													0
f) Spices													0
Production and Management													0
technology Processing and value addition													0
g) Medicinal and Aromatic Plants													0
<u> </u>													0
Nursery management Production and management													U
technology													0
Post harvest technology and value													_
addition													0
Total	0	0	1	1	0	0	0	0	0	0	0	0	2
III Soil Health and Fertility													
Management													
Soil fertility management													0
Soil and Water Conservation		1		1									2
Integrated Nutrient Management													0
Production and use of organic inputs													0
Management of Problematic soils													0
Micro nutrient deficiency in crops													0
Nutrient Use Efficiency							1						1
Soil and Water Testing													0
Total	0	1	0	1	0	0	1	0	0	0	0	0	3
IV Livestock Production and													
Management													
Dairy Management													0
Poultry Management													0
Piggery Management													0
Rabbit Management													0
Disease Management													0
Feed management													0
Production of quality animal products													0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
V Home Science/Women				Ť									
empowerment													
Household food security by kitchen													0
gardening and nutrition gardening													U
Design and development of							1						1
low/minimum cost diet	1												-

Designing and development for high													0
nutrient efficiency diet													0
Minimization of nutrient loss in													0
processing													0
Gender mainstreaming through													0
SHGs													0
Storage loss minimization techniques													0
Value addition	1	1		1							1		4
Income generation activities for					-				-				0
empowerment of rural Women					1				1				2
Location specific drudgery reduction													0
technologies													0
Rural Crafts													0
Women and child care										1	1		2
Total	1	1	0	1	1	0	1	0	1	1	2	0	9
VI Agril. Engineering													
Installation and maintenance of													
micro irrigation systems													0
Use of Plastics in farming practices													0
Production of small tools and													
implements													0
Repair and maintenance of farm													
machinery and implements													0
Small scale processing and value													Λ
addition													0
Post Harvest Technology													0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
VII Plant Protection													
Integrated Pest Management							1	1	2	2	1		7
Integrated Disease Management	1						1	2	2	2	2	1	11
Bio-control of pests and diseases	1											_	0
Production of bio control agents and													0
bio pesticides													0
Total	1	0	0	0	0	0	2	3	4	4	3	1	18
VIII Fisheries	1	0	0	0	0	0		-					10
							1						1
Integrated fish farming							1						1
Carp breeding and hatchery													0
management													0
Carp fry and fingerling rearing Composite fish culture								1					0
1								1					1
Hatchery management and culture of													0
freshwater prawn Breeding and culture of ornamental													
fishes													0
Portable plastic carp hatchery													0
Pen culture of fish and prawn													0
								1					
Shrimp farming				1		-		1					1
													0
Edible oyster farming		1	l	1	I	1							0
Pearl culture													
Pearl culture Fish processing and value addition													0
Pearl culture Fish processing and value addition Total	0	0	0	0	0	0	1	2	0	0	0	0	3
Pearl culture Fish processing and value addition	0	0	0	0	0	0	1	2	0	0	0	0	
Pearl culture Fish processing and value addition Total	0	0	0	0	0	0	1	2	0	0	0	0	
Pearl culture Fish processing and value addition Total IX Production of Inputs at site	0	0	0			0	1	2	0		0	0	3
Pearl culture Fish processing and value addition  Total  IX Production of Inputs at site  Seed Production  Planting material production	0	0	0			0	1	2	0		0	0	3
Pearl culture Fish processing and value addition  Total  IX Production of Inputs at site  Seed Production  Planting material production  Bio-agents production	0	0	0			0	1	2	0		0	0	3 3 0 0
Pearl culture Fish processing and value addition Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production	0	0	0			0	1	2	0		0	0	3 0 0
Pearl culture Fish processing and value addition Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production Bio-fertilizer production	0	0	0			0	1	2	0	1	0	0	3 0 0 0
Pearl culture Fish processing and value addition Total IX Production of Inputs at site Seed Production Planting material production Bio-agents production Bio-pesticides production	0	0	0			0	1	2	0		0	0	3 0 0

Production of fry and fingerlings													0
Production of Bee-colonies and wax													0
sheets													_
Small tools and implements													0
Production of livestock feed and													0
fodder													
Production of Fish feed		-	-		_		_	_		_			0
Total	0	1	1	1	1	0	0	0	0	2	0	0	6
X Capacity Building and Group Dynamics													
Leadership development				1									1
Group dynamics	1			1									1
Formation and Management of SHGs	1	1											1
Mobilization of social capital		1											0
Entrepreneurial development of													0
farmers/youths													0
WTO and IPR issues													0
Total	1	1	0	1	0	0	0	0	0	0	0	0	3
XI Agro-forestry						Ť							
Production technologies													0
Nursery management													0
Integrated Farming Systems													0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)		0	0	0	0		0	0	0	0	0	0	0
TOTAL	3	4	2	7	2	2	5	5	5	7	6	1	49
TOTAL	5			<b>'</b>			3	3	3	'	0		77
(B) RURAL YOUTH													
Mushroom Production													0
Bee-keeping													0
Integrated farming													0
Seed production				1									1
Production of organic inputs													0
Integrated Farming													0
Planting material production													0
Vermi-culture		1	1										2
Sericulture		_	_										0
Protected cultivation of vegetable													
crops													0
Commercial fruit production													0
Repair and maintenance of farm													0
machinery and implements													U
Nursery Management of Horticulture													0
Crops Training and pruning of orchards													0
Value addition			1										1
Production of quality animal products			1										0
Dairying													
Sheep and goat rearing													0
													0
Quail farming													
Piggery  Dalahit forming						-							0
Rabbit farming	1												0
Poultry production													0
Ornamental fisheries													0
Para vets													0
Para extension workers						1							0
Composite fish culture													0
Freshwater prawn culture													0
Shrimp farming													0

Pearl culture													0
Cold water fisheries													0
Fish harvest and processing													0
technology													U
Fry and fingerling rearing													0
Small scale processing													0
Post Harvest Technology													0
Tailoring and Stitching													0
Rural Crafts													0
TOTAL	0	1	2	1	0	0	0	0	0	0	0	0	4
(C) Extension Personnel													
Productivity enhancement in field								1					1
crops								1					1
Integrated Pest Management											1		1
Integrated Nutrient management													0
Rejuvenation of old orchards													0
Protected cultivation technology													0
Formation and Management of SHGs													0
Group Dynamics and farmers													0
organization													U
Information networking among													0
farmers													
Capacity building for ICT application													0
Care and maintenance of farm													0
machinery and implements													0
WTO and IPR issues													0
Management in farm animals													0
Livestock feed and fodder production													0
Household food security													0
Women and Child care													0
Low cost and nutrient efficient diet													0
designing													0
Production and use of organic inputs													0
Gender mainstreaming through SHGs													0
													0
Any other (Pl. Specify)  TOTAL	0	0	0	0	0	0	0	1	0	0	1	0	2
	0	0	0 <b>4</b>	0	0	0	0	1	0	0	1	0 <b>1</b>	
Grand Total	3	5	4	8	2	2	5	6	5	7	7	1	55

## A.3 Vocational Training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	No. of Course	Dura- tion (days)	No. of Participants	Type of participant
Vegetable	Value addition in vegetable	Packaging & Preservation of vegetables	6	3	44	RY
Fruit	Value addition in fruits	Preparation of Jam - Jelly & pickles	6	3	54	RY
Fisheries	Income generation	Ornamental fisheries	1	3	16	RY

## A.4 Training for Extension personnel

Sr. No.	Title of Training	No. of courses	Duration (days)	No. of partici- pants	Type of participant
1	Pre-seasonal training on kharif crops	1	2	25	Ext.workers
2	Pre-seasonal training on Rabi crops	1	2	25	Ext.workers
3	Integrated pest management in cotton	1	2	25	Ext.workers

## **B. Summary of Training Programme:**

Sr. No.	Subject	ON Campus	Off Campus	Total
	Farmers & Farm Women			
1	Crop production	12	5	17
2	Horticulture	3	2	5
3	Soil health & Fertility	8	4	12
4	Live stock production & management	0	0	0
5	Home science	13	14	27
6	Agril Engineering	0	0	0
7	Plant protection	25	25	50
8	Fisheries	4	2	6
9	Production of Input at site	10	8	18
10	Capacity Building and Group Management	15	10	25
11	Agro-foreshtry	0	0	0
	Total Farmers & Farm Women	90	70	160
	Rural Youth	22	30	52
	Extesnion Personals	3	4	7
	Grand Total	115	85	200

#### 2. DEMONSTRATIONS

SI.	Crop	Thematic area	Technology	Season	Area (ha)	
No.	Crop	memalic area	Demonstrated	and year	Proposed	Total
FLD						
1	Groundnut (GG-5)	IDM	IDM, Variety	Kharif	5	10
2	Mung (GM-4)	Varietal	Varietal	Kharif	5	10
3	Sesamum (Guj Til-2)	ICM	Variety, IDM	Kharif	10	20
4	Castor (GCH-6)	IDM	Variety	Kharif	10	20
5	Cotton (Bt. Cotton)	ICM	Variety,IPM	Kharif	20	40
6	Chilli (Reshampatto)	IPM	IPM	Kharif	5	10
7	Brinjal (GBL-1)	IPM	IPM	Kharif	5	10
8	Tomato (GT-2)	INM	INM	Kharif	5	10
9	Cabbage/ Cauliflower	INM	INM	Rabi	10	20
10	Wheat (GW-366)	Varietal Evaluation	Variety	Rabi	20	40

11	Cumin (Guj.Cum4)	IDM	IDM	Rabi	10	20
12	Chick pea (Guj-2)	IDM/IPM	IPM, Variety	Rabi	10	20
Component Demonstration						
13	Groundnut	Sclerotium rolfsii	Trichoderma	Kharif	10	20
14	Cotton	Lepidopterian Pests	Pheromone trap	Kharif	10	20
15	Chick pea	Lepidopterian pests	Pheromone trap	Rabi	5	10
	Total				140	280

#### 3. ON FARM TESTING

#### 3.1 OFT - 1

#### <u>OFT - 1 :- Cotton</u> Management of Mealy bug infestation in cotton

#### 1) Production system

Variety : Mallika {B.t. cotton (Government approved variety)}

Season : *Kharif* –2009 Size of the plot : 0.40 ha.

#### 2) Problem definition:

- 1. More number of host range
- 2. Dispersion is very fast
- 3. Mealy like powder covered on the body
- 4. Leaving in gregarious phase
- 5. Ability to laid eggs in pouch
- 6. Eggs are hibernating in unfavorable condition
- 7. Symbiotic relation with ants
- 8. Low incidence of natural enemies
- 9. High capacity of migration and climbing of crowlers.

# **3) Title of the technology assessment/refinement:** Integrated management of Mealy bug

4) Thematic area: Suppression of Mealy bug

#### 5) Details of technologies for assessment/ refinement

Category	Source of technology		Techi	nology detail
Technology option 1	Farmer	$T_1$	Farmer practices	Application of conventional insecticides after infestation on Mealy bug
Technology option 2	Main Oilseeds Res. Station, JAU, Junagadh	$T_2$	Recommended practices	Pre-sowing application of Methyl parathion, Application of insecticides at the time of infestation
Technology option 3		Т3	nractices	Pre-sowing application of Methyl parathion 2% Dust and followed by at

15 days interval, removal
of host plants &
vegetation from
boundaries, application
of newer insecticides
/bio pesticides
(Beauveria spp. Or
Verticillium spp.

N.B.:-  $T_1$ ,  $T_2$  &  $T_3$  are technology options 1, 2 & 3 respectively.

**6) Production system and thematic area:** Irrigated & Rainfed condition having heavy infestation of Mealy bug.

## <u>OFT - 2 :- Oilseeds (Groundnut)</u>: Yield losses in groundnut due to Sclerotium stem rot.

#### 1) Production system

Variety: GG-20

Season: Kharif- 2009

Size of plot: 0.40 ha

#### 2) Problem definition:

- 1. Reduction in plant population/ unit area due to disease at initial stage
- 2. Poor quality of pod as well as straw
- 3. Pods detached from the plant and remains in the soil
- 4. Lack of knowledge about the proper method and time of application
- 5. Set furrow sowing system
- 6. Soil bunding enhance the disease intensity
- 7. Lack of summer deep ploughing
- 8. Lack of crop rotation
- **3) Title of technology assessed/refined:** Biological control of *Sclerotium rolfsii* in groundnut
- 4) Thematic area: Management of stem rot in groundnut

#### 5) Detalis fo technologies for assessment/ ferinement

Category	Source of technology		Technologoy details
Technology option 1	Farmer	$T_1$	Farmers practice (Control)

Technology option 2	Main Oilseeds Res. Station, JAU, Junagadh	T <sub>2</sub>	Trichoderma harzeanum @ 2.5 kg/ha with castor cake @ 500kg/ha at the time of sowing
Technology option 3	Refinedment	T <sub>3</sub>	Castor cake @ 500 kg/ha, Drenching of <i>Trichoderma</i> harzeanum @2.5 kg/ha at 30 & 45 DAG

**6) Production system and thematic area:** Management of stem rot in groundnut

#### OFT - 3 :- Cotton : Low yield in cotton

#### 1) Production system

Variety : Mallika (B.t. cotton (Government approved variety))

Season : *Kharif* –2009 Size of the plot : 0.40 ha.

#### 2) Problem definition:

- 1. Farmers are using phosphatic fertilizer as basal as well as top dressing.
- 2. Plant needs more phosphorus at initial growth stage.
- 3. Improper variety selection
- 4. High labour charges
- 5. Lack of proper practices knowledge
- 6. Plant stand per hectare
- 7. Monocropping
- 8. Long duration crops
- 9. Injudicious use of fertilizers
- 10. Injudicious use of pesticides
- 11. Lack of disease management
- 12. Scheduling of irrigation
- **3) Title of the technology assessment/refinement:** Judicious use of fertilizer
- **4) Thematic area:** Unjudicious use of chemical fertilizers in cotton production

#### 5) Details of technologies for assessment/ refinement

Treatment	Period of application	N (kg/ha)	P <sub>2</sub> O <sub>5</sub> (kg/ha)	K <sub>2</sub> O (kg/ha)	Source
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$T_1$	Farmer	Farmer	Basal	22.5	57.5	0	DAP
	practices		Split-1(30 DAS)	57.5	0	0	Urea
			Split-2 (45 DAS)	57.5	0	0	Urea
			Split-3 (60 DAS)	80	57.5	0	Urea+DAP
			Split-4 (75 DAS)	57.5	0	0	Urea
			Total	275	115	0	
$T_2$	Recommended	Cotton Res.	Basal	40	0	0	AS
	practices	Station, JAU,	Split-1(30 DAS)	40	0	0	Urea
		Junagadh	Split-2 (45 DAS)	40	0	0	Urea
			Split-3 (60 DAS)	40	0	0	Urea
			Total	160	0	0	
T <sub>3</sub>	Refined		Basal	40	0	60	AS + MOP
	practices – I		Split-1(30 DAS)	40	0	0	Urea
			Split-2 (45 DAS)	40	0	0	Urea
			Split-3 (60 DAS)	40	0	0	Urea
			Total	160	0	60	
T <sub>4</sub>	Refined		Basal	40	0	60	AS+MOP
	practices – II	oractices – II	Split-1(30 DAS)	40	0	20	AS+MOP
			Split-2 (45 DAS)	40	0	20	AS+MOP
			Split-3 (60 DAS)	40	0	20	AS+MOP
			Total	160	0	120	

N.B.:-  $T_1$ ,  $T_2$ ,  $T_3$  &  $T_4$  are technology options 1, 2, 3 & 4 respectively.

#### 6) Production system and thematic area: Application of DAP

#### 4. EXTENSION ACTIVITIES

Nature of Extension Programme	No. of Progr- ammes	
Field Day	25	
Kisan Mela		
Kisan Ghosthi	10	
Exhibition		
Film Show		
Method Demonstrations	2	1

Farmers Seminar	30	
Workshop		
Group meetings		5
Lectures delivered as resource persons	60	4
Newspaper coverage		
Radio talks	2	2
TV talks	2	2
Popular articles		
Extension Literature	5	5
Advisory Services		
Scientific visit to farmers field		
Farmers visit to KVK		
Diagnostic visits		
Exposure visits		
Ex-trainees Sammelan		
Soil health Camp		
Animal Health Camp		
Agri mobile clinic		
Soil test campaigns		
Farm Science Club Conveners meet		
Self Help Group Conveners meetings		
Mahila Mandals Conveners meetings		
Celebration of important days (specify)		
Female groups		
Any Other (Specify)		
Total	166	19

# N.B. Above full fledge activities can be performed only after recruiting the staff as per discipline required.

Sr.No	Demonstration Units	Rs. In Lakh
1	Vermi compost unit	1.50
2	Poly house Unit	1.00
3	Horticulture and vegetable nursery	3.00
4	Animal unit	4.00
5	Fisheries culture unit	4.00
6	Drip irrigation unit with hort. crops	3.00
7	Home science	3.00

8.	Entomological & Pathological laboratory as well as	4.00
	Museum	