



# ANNUAL ACTION PLAN

April-2014 to March-2015

**KRISHI VIGYAN KENDRA**

**GANPAT VIDYANAGAR-384012**

**DIST : MEHSANA(GUJARAT)**

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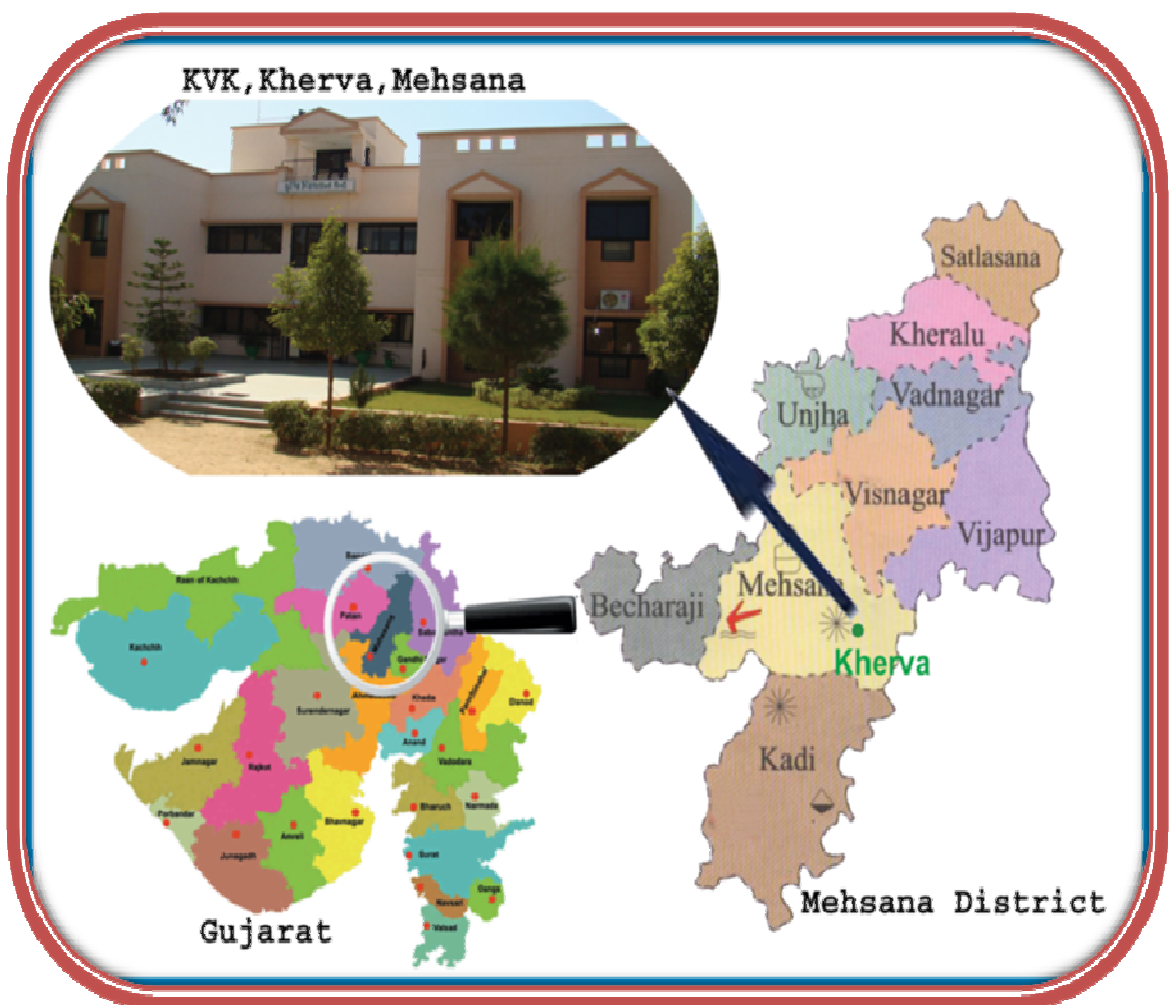
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GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	Web Address
<b>Krishi Vigyan Kendra,</b> Ganpat University, Mehsana District Education Foundation, Mehsana- Gozaria Highway, Ganpat Vidyanagar-384012, Gujarat.	Office: (02762) 289189	FAX: (02762) 289189	kvkmehsana@ yahoo.co.in	www.kvkmehsana.org

Location in Map



## MAJOR THRUST AREA

Major thrust area is identified through general benchmark survey and PRA techniques are as under.

<b>Crop/Enterprise</b>	<b>Thrust area</b>
Major oilseeds, cash crops, food grains & pulses	<ul style="list-style-type: none"> <li>➤ ICM: Recommended package of practices for major crops</li> <li>➤ IPM &amp; IDM: Integrated Pest and Disease management</li> <li>➤ INM :Integrated Nutrient Management</li> </ul>
Horticultural crops	<ul style="list-style-type: none"> <li>➤ Recommended package of practices for major crops</li> <li>➤ Integrated Pest and Disease management</li> <li>➤ Integrated Nutrient Management</li> <li>➤ Trainings on orchard management and growing of high value horticultural crops.</li> <li>➤ Protected cultivation</li> </ul>
Irrigation management	<ul style="list-style-type: none"> <li>➤ Micro irrigation &amp; water harvesting measures</li> </ul>
Organic farming	<ul style="list-style-type: none"> <li>➤ Organic farming &amp; vermi compost</li> </ul>
Soil reclamation	<ul style="list-style-type: none"> <li>➤ Awareness for reclamation of problematic soil and soil &amp; water analysis</li> </ul>
Dairy Management	<ul style="list-style-type: none"> <li>➤ Management of the feeding, breeding and health care of dairy animals</li> </ul>
Value addition	<ul style="list-style-type: none"> <li>➤ Value addition</li> </ul>
Group dynamics	<ul style="list-style-type: none"> <li>➤ Psychological upliftment of SHGs, and Farmers clubs.</li> <li>➤ Entrepreneurial development and awareness regarding income generating activities.</li> </ul>
Imbalance nutrition among rural people	<ul style="list-style-type: none"> <li>➤ Nutrition and health management in rural people</li> </ul>
Use of improved technology	<ul style="list-style-type: none"> <li>➤ Demonstrate improved implements &amp; improved technologies of agriculture and animal husbandry</li> </ul>

## 1. Staff Position

<b>Posts</b>	<b>Sanctioned</b>	<b>Filled</b>	<b>Vacant</b>
Programme Coordinator	1	1	0
Subject Matter Specialist	6	4	2
Programme Assistant	2	2	0
Farm Manager	1	1	0
Assistant	1	1	0
Stenographer	1	1	0
Drivers	2	2	0
Supporting	2	2	0
<b>Total</b>	<b>16</b>	<b>14</b>	<b>2</b>

## 2. TRAINING PROGRAMME

### 2.1 On campus

Sl. No	Subject	On Campus																Total				
		PF				FW				RY				EF					SPONSOR			
		I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV		I	II	III	IV
1	Crop Production	3	2	3	1							1		1				1		1		13
2	Horticulture	2		1	2					1				1					1			8
3	Plant Protection	2	2	3	1											1	1		1			11
4	Animal Science		1			2	1	2					1								1	8
5	Home Science					1	1		2			1										5
6	Agricultural Engineering	1		1	1										1							4
7	Extension Education	1	1		1			1						1								5
8	Multi Dis.																					0
	<b>Total</b>	<b>9</b>	<b>6</b>	<b>8</b>	<b>6</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>3</b>		<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>54</b>

### 2.2 Off campus

Sl. No	Subject	Off Campus																Total				
		PF				FW				RY				EF					SPONSOR			
		I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV		I	II	III	IV
1	Crop Production	2	2	2	2	1	1															10
2	Horticulture	2	1	1	2					1			1									8
3	Plant Protection	1		2	2	2	1				1		1									10
4	Animal Science	2	1	1	1	1	1	1	2		1											11
5	Home Science					3	3	2	2				1									11
6	Agricultural Engineering			1																		1
7	Extension Education						1	1	1	1												4
8	Multi Dis.																					0
	<b>Total</b>	<b>7</b>	<b>4</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4</b>	<b>5</b>	<b>2</b>	<b>2</b>		<b>3</b>									<b>55</b>

### 2.3 Consolidate Training (On Campus + Off Campus)

Sl. No	Subject	PF				FW				RY				EF				SPONSOR				Total
		I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	
1	Crop Production	5	4	5	3	1	1					1		1				1		1		<b>23</b>
2	Horticulture	4	1	2	4					1	1		1	1					1			<b>16</b>
3	Plant Protection	3	2	5	3	2	1				1		1				1	1		1		<b>21</b>
4	Animal Science	2	2	1	1	3	2	3	2		1		1								1	<b>19</b>
5	Home Science					4	4	2	4			1	1									<b>16</b>
6	Agricultural Engineering	1		2	1										1							<b>05</b>
7	Extension Education	1	1		1		1	2	1	1				1								<b>09</b>
10	Multi Dis.																					
	<b>Total</b>	<b>16</b>	<b>10</b>	<b>15</b>	<b>13</b>	<b>10</b>	<b>9</b>	<b>7</b>	<b>7</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>3</b>		<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>109</b>

PF : Practicing Farmers  
FW : Farm Women

RY : Rural Youth  
EF : Extension Functionaries

### 3. DEMONSTRATION:-

Type of Demonstration	Season	Crop	Farming situation	Technology	Area (ha)	No of demo
Oilseed	Kharif	Sesamum	Rainfed	High yielding variety - GT-3	5	12
Oilseed	Kharif	Groundnut	Rainfed	High yielding variety - GJG-9	5	12
Oilseed	Rabi	Mustard	Irrigated	High yielding variety - GDM-4	10	25
Pulses	Kharif	Clusterbean	Rainfed	High yielding variety - GG-2	10	25
Bio agent	Kharif	Tomato	Irrigated	NPV and Beauveria Bassiana	5	12
Other	Kharif	Cotton	Irrigated	Seed of Variety : Bt.Hy.Cotton-12	10	25
Other	Kharif	Cotton	Irrigated	Seed of Variety : Bt.Hy.Cotton-8	10	25
Horticulture	Kharif	Chilli	Irrigated	Seed of Variety : GC-3	5	12
Other	Kharif	Soil health	Irrigated	Seed of dhaincha	10	25
Cereal	Rabi	Wheat	Irrigated	Seed of variety: GW-11	10	25
Spice	Kharif	Fennel	Irrigated	Seed of Variety : GF-12	10	25
Bio agent	Rabi	Cumin	Irrigated	Trichoderma	5	12
Fodder	Rabi	Lucerne	Irrigated	Seed of variety: Anand Lucerne -2	5	12
Livestock		Livestock	-	Fenbendazole		30
Livestock		Livestock	-	Urea and plastic sheet		30
Farm Implement	Summer	Improved Farm Implement	-	Wheel hoe		10
Bio agent	Kharif	Groundnut	Rainfed	Trichoderma	5	12
Bio agent	Kharif	Paddy	Irrigated	Pheromone trap	5	12
Home Science	Kharif	Kitchen Garden	Irrigated	Seed of vegetables	-	10



#### 4. ON FARM TRIAL

1. To assess the effect of By pass fat to improve the fat percent in high yielding crossbred cow
2. Management of Hasta bahar in acid lime
3. Fertilizer requirement in summer Bajara
4. Assessment of technology for Canker Management in acid lime
5. To assess the effect of hydrogel for conserving soil moisture in wheat
6. Assessment of technology for Haemoglobin maintain in adolescent girls
7. To assess the effect of probiotic on milk production.
8. Assessment of technology for management of alternaria blight in cumin
9. Foliar nutrition of Citrus special for high yield and quality

#### 5. OTHER EXTENSION ACTIVITIES:-

Sr. No.	Activity	Proposed No.
1	Field day	30
2	Agri. Exhibition	1
3	Scientist Farmer interaction	2
4	Farm Science Club	2
5	Mahila Mandal	2
6	Ex-Trainees meeting	1
7	Celebration of important days	2
8	Diagnostic Service	
	1. Farmers visit to K.V.K.	300
	2. Scientific visit to farmers field	20
9	Lectures to be delivered in other programme	as per allotment
10	Night Training Camps	4
11	Distribution of seed/seedling on no profit basis	35 qt / 225000
12	Soil and water sample analysis	400
13	Publication	
	1. Popular article to be published.	4
	2. Success story	2
	3. Case study	1
	4. Pamphlet / Folders	4
14	Communication Media	
	1. Radio talk	as per allotment
	2. TV/Film show	16
	3. News paper coverage	6
15	Group meeting	5
16	Trainer's training	2
17	Exposure visit	2
18	PRA	2
19	Method demonstration	4
20	Subscription of agricultural magazines	20
21	Ex trainee Sammelan	1
22	Animal health fair/camps	12
23	Workshops/Seminar	2

**6. Seed and Seeding production**

- Detail is given in report

**7. Infrastructure Development**

- Detail is given in report

**8. Budget Estimate:-**

- Detail is given in report

## 1. Present Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with (Grade pay) (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr. M. V. Patel	Programme Coordinator	Horticulture	15600-39100 (8000)	30320	19-03-12	Permanent	Other
2	Subject Matter Specialist	Dr. S.M. Soni	SMS	Animal Husbandry	15600-39100 (5400)	25080	23-01-06	Permanent	Other
3	Subject Matter Specialist	Shri. B.K. Patel	SMS	Agronomy	15600-39100 (5400)	26080	17-02-06	Permanent	Other
4	Subject Matter Specialist	Dr. R.A.Patel	SMS	Plant Protection	15600-39100 (5400)	22950	29-08-09	Permanent	Other
5	Subject Matter Specialist	Shri. M.R.Patel	SMS	Ext. Edu	15600-39100 (5400)	21000	09-04-12	Permanent	OBC
6	Subject Matter Specialist	Vacant	SMS	Home Science	-	-	-	-	-
7	Subject Matter Specialist	Vacant	SMS	Agricultural Engg.	-	-	-	-	-
8	Programme Assistant	Ku. Rina. R. Patel	Programme Assistant	Home Science	9300-34800 (4200)	15780	29-08-09	Permanent	Other
9	Computer Programmer	Shri. A.D. Patel	Computer Programmer	B.Sc (Ind.Chem) , P.G.D.C.A	9300-34800 (4200)	17260	29-05-06	Permanent	Other
10	Farm Manager	Shri. A.R. Patel	Farm Manager	B.Sc. (Agri.)	9300-34800 (4200)	17260	01-04-06	Permanent	Other
11	Accountant / Superintendent	Shri. J.M. Patel	O.S Cum Accountant	M.Com, PGDCA	9300-34800 (4200)	15780	01-09-09	Permanent	PH
12	Stenographer	Shri. G.C. Rathod	Stenographer	B.Com	5200-20200 (2400)	11790	01-06-06	Permanent	SEBC
13	Driver cum mechanic	Shri. G. S. Patel	Driver Cum Mechanic	S.S.C.	5200-20200 (2000)	9660	01-04-06	Permanent	Other
14	Driver cum mechanic	Shri K.G. Patel	Driver Cum Mechanic	H.S.C	5200-20200 (2000)	9660	25-09-06	Permanent	Other
15	Supporting staff	Shri. S. M. Patel	Supporting Staff	I.T.I.	5200-20200 (1800)	8380	18-05-06	Permanent	Other
16	Supporting staff	Shri. M.H. Patel	Supporting Staff	I.T.I.	5200-20200 (1800)	8380	18-05-06	Permanent	Other

## 2 TRAINING PROGRAMME:-

### 2.1 ON CAMPUS TRAINING (For PF, FW & RY)

#### I. - Quarter (April - June-2014)

Sl. no	Subject	Title of Training	Month	Duration	No .of Participant	Type of Participants
1	Plant Protection	IPM in Cotton	April	1	20	P.F
2	Ag. Engineering	Use of improved farm implements and machinery	April	1	20	P.F.
3	Extension Education	Government subsidy schemes in agriculture	April	1	20	P.F.
4	Home Science	Agarbatti Making	April	1	20	F.W
5	Crop Production	Production technology of Bt. Cotton	May	2	20	P.F
6	Crop Production	Green Manuring	May	1	20	P.F.
7	Horticulture	Management of Hasta bahar in lime	May	1	20	P.F
8	Animal science	Feed management in dairy animals	May	1	20	F.W
9	Crop Production	Scientific cultivation of clusterbean	June	1	20	P.F.
10	Horticulture	Production technology of Fennel	June	1	20	P.F
11	Plant Protection	IDM in groundnut - Trichoderma	June	1	20	P.F.
12	Animal Science	Use of by-pass fat for getting higher fat & milk in cross breed cow	June	1	20	F.W.

## II. - Quarter (July - September-2014)

Sr. No	Subject	Title of Training	Month	Duration	No. of Participant	Type of Participants
1	Crop Production	Scientific cultivation of sesamum	July	1	20	P.F.
2	Plant Protection	Bio control of pest of Vegetables	July	2	20	P.F
3	Home Science	Income generating activities for empowerment of rural women.	July	1	20	F.W
4	Plant Protection	IDM in Castor	August	1	20	P.F
5	Animal Science	Disease management in poultry farming	August	1	20	P.F
6	Extension Education	Different ways of marketing of farm products	August	1	20	P.F
7	Crop production	Scientific cultivation of Mustard	September	1	20	P.F
8	Horticulture	Protected cultivation of vegetable crops	September	2	20	R.Y
9	Animal Science	Deworming in large animals	September	1	20	F.W.

### III Quarter (October -December-2014)

Sl. No	Subject	Title of Training	Month	Duration	No .of Participant	Type of Participants
1	Crop Production	Improved package of practices of Lucerne seed production	October	1	20	R.Y
2	Crop production	Scientific cultivation of Mustard	October	1	20	P.F
3	Crop production	Conservation of soil moisture in wheat	October	1	20	P.F
4	Plant Protection	IDM in cumin	October	1	20	P.F
5	Crop production	Fertilizer management in major Rabi crops	November	1	20	P.F.
6	Horticulture	Scientific cultivation of Potato	November	1	20	P.F
7	Plant Protection	Disease management in Potato	November	1	20	P.F
8	Animal Science	Health & Hygiene management of Dairy Animals	November	1	20	F.W
9	Plant protection	Management of blight in spice crops	December	1	20	P.F
10	Home Science	Value added products of Aonla	December	2	20	R.Y
11	Animal Science	Popularization of Azolla cultivation for profitable livestock farming	December	1	20	F.W.
12	Agriculture Engineering	Maintenance of drip irrigation system	December	1	20	P.F.
13	Extension Education	Women entrepreneurship development	December	1	20	F.W.

**IV. - Quarter (January - March -2015)**

<b>Sl. No.</b>	<b>Subject</b>	<b>Title of Training</b>	<b>Month</b>	<b>Duration</b>	<b>No .of Participant</b>	<b>Type of Participants</b>
1	Horticulture	Production technology of summer vegetables	January	1	20	P.F
2	Animal science	Profitable management of cattle farm	January	1	20	R.Y
3	Home Science	Preparation method of Aonla candy and jam	January	1	20	F.W.
4	Crop Production	Scientific cultivation of summer Sesamum and Cluster bean	February	1	20	P.F
5	Horticulture	Use of plant growth regulators in vegetable crops	February	1	20	P.F
6	Plant protection	Nematode management in horticultural crops	February	1	20	P.F
7	Home Science	Preparation of homecare product	March	1	20	F.W.
8	Agriculture Engineering	Improved farm implements and its use	March	1	20	P.F
9	Extension Education	Sources and procedure for purchases of quality agricultural inputs.	March	1	20	P.F

## 2.2 OFF CAMPUS TRAINING (For PF, FW & RY)

### I-Quarter (April-June-2014)

Sl No.	Subject	Title of Training	Month	Duration	No. of Participant	Type of Participants
1	Crop Production	Integrated Nutrient Management in Cotton	April	1	20	P.F
2	Horticulture	Training and pruning in orchard	April	1	20	P.F
3	Plant Protection	Identification, nature of damage and management of stored grain pest	April	1	20	F.W
4	Animal Science	Selection of milch animals	April	1	20	P.F
5	Home Science	Mango squash preparation	April	1	20	F.W
6	Crop production	Preparation of organic manure from farm waste	May	1	20	F.W
7	Plant Protection	Role of farm sanitation for disease management	May	1	20	F.W
8	Horticulture	Nursery raising	May	1	20	R.Y.
9	Animal Science	Housing of dairy animals	May	1	20	F.W
10	Home Science	Method of preparation of Mango pickles and jam	May	1	20	F.W.
11	Crop Production	Scientific cultivation of Groundnut	June	1	20	P.F
12	Horticulture	Plant propagation techniques	June	1	20	P.F
13	Plant Protection	IDM in Groundnut	June	1	20	P.F
14	Animal Science	Importance of green fodder in economic milk production	June	1	20	P.F
15	Home Science	Kitchen gardening for household food security	June	1	20	F.W.
16	Extension Education	Capacity building of SHGs	June	1	20	R.Y.



## II - Quarter (July-September-2014)

Sl. No.	Subject	Title of Training	Month	Duration	No .of Participant	Type of Participants
1	Crop Production	Scientific cultivation of major pulse crops	July	1	20	P.F
2	Animal Science	Feeds and feeding management of dairy animals	July	1	20	F.W
3	Home Science	Nutrition security through kitchen gardening	July	1	20	F.W
4	Horticulture	Improved production technology of Tomato	July	1	20	P.F.
5	Plant protection	Seed treatment -Low cost technology for pest and disease management	July	1	20	F.W
6	Extension Education	Mobilization of social capital	August	1	20	F.W
7	Plant protection	Role of biopesticides for pest management	August	1	20	R.Y
8	Crop Production	Scientific cultivation of castor	August	1	20	P.F
9	Animal Science	Common disease of animals and their treatment	August	1	20	P.F
10	Home Science	Importance of fruits and vegetable in our daily diets	August	1	20	F.W
11	Crop Production	Weed management in Rabi crops	September	1	20	F.W
12	Home Science	Value addition in fruits and vegetables	September	1	20	F.W
13	Animal Science	Heat detaction techniques in buffalo	September	1	20	R.Y

### III- Quarter (October-December-2014)

Sl. No.	Subject	Title of Training	Month	Duration	No .of Participant	Type of Participants
1	Plant protection	IPM in tomato	October	1	20	P.F.
2	Horticulture	Export oriented production technology of spices	October	1	20	P.F
3	Animal Science	Urea treatment in wheat straw	October	1	20	P.F
4	Agriculture Engineering	Drip irrigation in field crops	October	1	20	P.F
5	Crop production	Scientific cultivation of Wheat	November	1	20	P.F.
6	Plant Protection	Termite management in Wheat	November	1	20	P.F
7	Home Science	Preparation of nutritious food for children	November	1	20	F.W
8	Animal science	Use and importance of mineral mixture	November	1	20	F.W
9	Crop Production	Judicious use of chemical fertilizers	December	1	20	P.F
10	Home Science	Value addition in fruits and vegetables	December	1	20	F.W
11	Extension Education	Formation and promotion of SHGs	December	1	20	F.W

#### IV – Quarter (January-March-2015)

Sl. No.	Subject	Title of Training	Month	Duration	No .of Participant	Type of Participants
1	Crop production	Symptoms and remedies for micronutrient deficiency	January	1	20	P.F
2	Plant Protection	Preparation of bio-pesticides	January	1	20	R.Y
3	Horticulture	Management of newly established orchard	January	1	20	P.F.
4	Home Science	Preparation method of Bam, Vaseline and Washing powder.	January	1	20	R.Y.
5	Animal Science	Value addition and marketing of milk	January	1	20	PF
6	Crop production	Scientific cultivation of sesamum and bajara	February	1	20	P.F.
7	Horticulture	Fruit production technology	February	1	20	R.Y.
8	Plant Protection	Nematode management in Green House cultivation	February	1	20	P.F
9	Home Science	Foods and vegetables preservation techniques	February	1	20	F.W.
10	Extn.Edu.	Effect of global warming and climate change on agriculture.	February	1	20	F.W
11	Animal Science	Vaccination in animals and its economical importance	February	1	20	FW
12	Horticulture	Post harvest management in Horticultural crops	March	1	20	P.F.
13	Plant Protection	Disease management in protected cultivation	March	1	20	P.F
14	Animal Science	Importance of mineral mixture and urea treatment on fodder	March	2	20	F.W
15	Home Science	Safe food grain storage method	March	1	20	F.W.

### 2.3 SPONSORED/LINKAGE TRAINING PROGRAMME:-

Sl. No.	Title of Training	Month	Duration	No. of Participants	Type of Participants	Sponsoring Agency
1	Production technology of kharif crops	May	2 Day	25	PF	ATMA
2	Nematode management in protected cultivation	June	1 Day	25	PF	Department of Horti., Mehsana
3	Production technology of spice crop	September	2 Day	25	PF	ATMA
4	Organic farming	November	1 Day	30	PF	FTC Mehsana
5	Dairy management	January	1 Day	25	FW	ATMA, Mehsana
6	IPM in Rabi crops	October	1Day	25	PF	ATMA, Mehsana

## 2.4 INSERVICE TRAINING PROGRAMME:-

Sl. No	Subject	Title of Training	Month	Duration (Day)	No. of Participants	Type of Participants	Sponsoring Agency
1	Horticulture	Agro-forestry, Horticulture, Floriculture, Medicinal & Aromatic Plantation , Organic farming, Integrated Pest Management	April	2	20	EF	DWDU, Mehsana
2	Extension Education	Agricultural need assessment, Training and demonstration methods and Animal Husbandry	May	2	20	EF	DWDU, Mehsana
3	Crop production	New production Techniques and water use efficiency in agriculture, Post-Harvest Technology	June	2	20	EF	DWDU, Mehsana
4	Agri. Engineering	Fundamental of drip irrigation	October	1	20	EF	ATMA
5	Plant protection	Awareness of new molecules for pest and diseases managements	January	1	20	EF	KVK

### 3. Demonstration

Crop	Thematic area	Farming situation	Name of Components	Area (ha.)	No. of Demonstration	Existing technology	Details of Scientific technological intervention	Critical inputs	Justification
Sesamum	Varietal Evaluation	Rainfed	Variety	5	12	Use local variety and GT-2	Use of high yielding variety GT-3	Seed of variety GT-3	To introduce high yielding variety
Groundnut	Varietal Evaluation	Rainfed	Variety	5	12	Use local variety and GG-20	Use of high yielding variety GJG-9	Seed of variety GJG-9	To introduce high yielding variety
Mustard	Varietal Evaluation	Irrigated	Variety	10	25	Use local variety and GM-3	Use of high yielding variety GM-4	Seed of variety GM-4	To introduce high yielding variety
Clusterbean	Varietal Evaluation	Rainfed	Variety	10	25	Use local variety and GG-1	Use of high yielding variety GG-2	Seed of variety GG-2	To introduce high yielding variety
Tomato	IPM	Irrigated	Bio agent	5	12	No use	IPM	NPV and Beauveria Bassiana	To manage heliothis
Wheat	Varietal Evaluation	Irrigated	Variety	10	25	Use local variety and GW-496	Use of high yielding variety GW-11	Seed of variety: GW-11	To introduce high yielding variety
Cotton	Varietal Evaluation	Irrigated	Variety	5	12	Use private Company Bt. Cotton varieties	Use of high yielding variety.	Seed of Variety : Bt.Hy.Cotton -12	To introduce high yielding variety
Cotton	Varietal Evaluation	Irrigated	Variety	5	12	Use private Company Bt. Cotton varieties	Use of high yielding variety.	Seed of Variety : Bt.Hy.Cotton -8	To introduce high yielding variety
Chilli	Varietal Evaluation	Irrigated	Variety	5	12	Use private Companies varieties	Use of high yielding variety.	Seed of Variety : GC-3	To introduce high yielding variety

Soil health	Soil fertility management	Irrigated	Green manuring	10	25	No use	use of green manuring	Seed of Sun hemp / dhaincha	Management of problematic soil
Fennel	Varietal Evaluation	Irrigated	Variety	10	25	Use local variety and GF-11	Use of high yielding variety-GF-12.	Seed of Variety : GF-12	To introduce high yielding variety
Cumin	IDM	Irrigated	Bio agent	5	12	No use	IDM	Trichoderma	To manage wilt disease
Groundnut	IDM	Rainfed	Bio agent	5	12	No use	IDM	Trichoderma	To manage wilt and Root rot disease
Paddy	IPM	Irrigated	Bio agent	5	12	No use	IPM	Pheromone trap	To manage stem borer
Lucerne	Varietal Evaluation	Irrigated	Variety	5	12	Use of Local varieties.	Use of high fodder yielding variety - AL-2	Seed of variety: AL-2	To introduce high fodder yielding variety
Livestock	Disease Management	-	-	-	20	No use of deworming	To increase the milk production	Fenbendazole	Disease management
Livestock	Feed management	-	-	-	30	No treatment for roughages	Urea treatment on wheat straw	Urea and plastic sheet	Increase nutritive value of roughages
Improved Farm Implement	Drudgery Reduction	-	-	-	10	Hand weeding	Awareness regarding improved weeding and inter culturing implement	Wheel hoe	Drudgery reduction
Home Science	Household food security	Irrigated	Kitchen Garden	-	10	No use	Seeds of seasonal vegetable	Seeds of seasonal vegetable	Household vegetable food securities

## 4. ON FARM TRIAL

### 4.1 : Trial - 1

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1. Title	:	To assess the effect of By pass fat to improve the fat percent in high yielding crossbred cow
2. Problem diagnose/define	:	There is high incidence of low fat percent in high yielding crossbred cows.
3. Details of technologies selected for assessment	:	T <sub>1</sub> - <i>Farmers practice</i> - Use of concentrate feed and cotton seed cake. T <sub>2</sub> - <i>Assessment</i> - Use of concentrate feed with 150 gm by pass fat for 90 days
4. Source of technology	:	G.B. Pant university - Punjab, Bombay Vet. College - Parel, SAU, Gujarat
5. Production system	:	-
6. Thematic area	:	Nutrient Management in crossbred cow
7. Performance of the Technology with performance indicators	:	1. Fat percentage 2. Milk production per lactation
8. Final recommendation for micro level situation	:	First year.
9. Constraints identified and feedback for research	:	-
10. Process of farmers participation and their reaction	:	Farmer : 10 , Group meetings and field visits

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#### 4.2 : Trial - 2

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1. Title	:	Management of Hasta bahar in acid lime	
2. Problem diagnose/defined	:	Low yield in summer season	
3. Details of technologies selected for assessment/refinement	:	<b>Source</b>	<b>Technology</b>
		T <sub>1</sub> Farmer practices	Digging of upper soil in sept. and withholding of irrigation for 20 days
		T <sub>2</sub> Recommended by SAU's	Digging of upper soil in sept. and withholding of irrigation for 20 days and apply two spray of 500 ppm Cycocel at 15 days intervals in sept-oct
		T <sub>3</sub> to be assessed by KVK	Application of 50 ppm GA <sub>3</sub> in June + 1000 ppm Cycocel in Sept. + 1 per cent KNO <sub>3</sub> in Oct.
4. Source of technology	:	SAU	
5. Production system	:	Irrigated	
6. Thematic area	:	Integrated Crop Management	
7. Performance of the Technology with performance indicators	:	No. of fruit per plant, Fruit yield per plant (kg)	
8. Final recommendation for micro level situation	:	Second year experiment	
9. Constraints identified and feedback for research	:	-	
10. Process of farmers participation and their reaction	:	Group meetings and Field visit, Field day	

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### 4.3 : Trial - 3

1. Title	:	Fertilizer requirement in summer Bajara												
2. Problem diagnose/defined	:	Higher cost of cultivation due to high dose of fertilizer												
3. Details of technologies selected for assessment/refinement	:	<table border="1"> <thead> <tr> <th></th> <th>Source</th> <th>Technology</th> </tr> </thead> <tbody> <tr> <td>T<sub>1</sub></td> <td>Farmer practices</td> <td>39 : 100: 00 kg/ha NPK as basal and 96 kg N per ha in two split as a top dressing per ha</td> </tr> <tr> <td>T<sub>2</sub></td> <td>Recommended by SAU's</td> <td>80 : 60: 00 kg/ha NPK as basal and 80 kg N per ha in one split at 30 DAS as top dressing per ha</td> </tr> <tr> <td>T<sub>3</sub></td> <td>To be refined by KVK</td> <td>23.5 : 60 : 00 kg/ha NPK as basal and 80 kg N in two split as top dressing per ha at 25 and 40 DAS</td> </tr> </tbody> </table>		Source	Technology	T <sub>1</sub>	Farmer practices	39 : 100: 00 kg/ha NPK as basal and 96 kg N per ha in two split as a top dressing per ha	T <sub>2</sub>	Recommended by SAU's	80 : 60: 00 kg/ha NPK as basal and 80 kg N per ha in one split at 30 DAS as top dressing per ha	T <sub>3</sub>	To be refined by KVK	23.5 : 60 : 00 kg/ha NPK as basal and 80 kg N in two split as top dressing per ha at 25 and 40 DAS
	Source	Technology												
T <sub>1</sub>	Farmer practices	39 : 100: 00 kg/ha NPK as basal and 96 kg N per ha in two split as a top dressing per ha												
T <sub>2</sub>	Recommended by SAU's	80 : 60: 00 kg/ha NPK as basal and 80 kg N per ha in one split at 30 DAS as top dressing per ha												
T <sub>3</sub>	To be refined by KVK	23.5 : 60 : 00 kg/ha NPK as basal and 80 kg N in two split as top dressing per ha at 25 and 40 DAS												
4. Source of technology	:	KVK												
5. Production system	:	Irrigated												
6. Thematic area	:	Integrated Nutrient Management												
7. Performance of the Technology with performance indicators	:	Grains and fodder yields												
8. Final recommendation for micro level situation	:	First year experiment												
9. Constraints identified and feedback for research	:	-												
10. Process of farmers participation and their reaction	:	Group meetings and Field visits												

#### 4.4 : Trial- 4

1. Title	:	Assessment of technology for Canker Management in acid lime									
2. Problem diagnose/defined	:	Low market price due to inferior fruits quality									
3. Details of technologies selected for assessment /refinement	:	<table border="1"><thead><tr><th></th><th>Source</th><th>Technology</th></tr></thead><tbody><tr><td>T<sub>1</sub></td><td>Recommended by SAU's</td><td>Spraying of Streptomycin sulphate 1 gm and COC 40 gm / 10 lit water (3 spray in June, August and December )</td></tr><tr><td>T<sub>2</sub></td><td>To be assessed by KVK</td><td>Spraying of <i>Pseudomonas fluorescense</i> @ 100 ml / 10 lit water (3 spray in June, August and December )</td></tr></tbody></table>		Source	Technology	T <sub>1</sub>	Recommended by SAU's	Spraying of Streptomycin sulphate 1 gm and COC 40 gm / 10 lit water (3 spray in June, August and December )	T <sub>2</sub>	To be assessed by KVK	Spraying of <i>Pseudomonas fluorescense</i> @ 100 ml / 10 lit water (3 spray in June, August and December )
	Source	Technology									
T <sub>1</sub>	Recommended by SAU's	Spraying of Streptomycin sulphate 1 gm and COC 40 gm / 10 lit water (3 spray in June, August and December )									
T <sub>2</sub>	To be assessed by KVK	Spraying of <i>Pseudomonas fluorescense</i> @ 100 ml / 10 lit water (3 spray in June, August and December )									
4. Source of technology	:	NRC on Citrus, Nagpur									
5. Production system	:	Irrigated									
6. Thematic area	:	Integrated Disease Management									
7. Performance of the Technology with performance indicators	:	Percent disease infestation and yield									
8. Final recommendation for micro level situation	:	First year experiment									
9. Constraints identified and feedback for research	:	-									
10. Process of farmers participation and their reaction	:	Group meetings and Field visits									

#### 4.5 : Trial-5

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1. Title	:	To assess the effect of hydrogel for conserving soil moisture in Wheat									
2. Problem diagnose/defined	:	Low yield due to moisture stress condition at critical stage in wheat									
3. Details of technologies selected for assessment/refinement	:	<table><thead><tr><th></th><th><b>Source</b></th><th><b>Technology</b></th></tr></thead><tbody><tr><td>T<sub>1</sub></td><td>Farmer practices</td><td>As per availability (5-6 irrigation)</td></tr><tr><td>T<sub>2</sub></td><td>To be assessed by KVK</td><td>Soil application of Pusa Hydrogel as a soil conditioner @ 5 kg/ha</td></tr></tbody></table>		<b>Source</b>	<b>Technology</b>	T <sub>1</sub>	Farmer practices	As per availability (5-6 irrigation)	T <sub>2</sub>	To be assessed by KVK	Soil application of Pusa Hydrogel as a soil conditioner @ 5 kg/ha
	<b>Source</b>	<b>Technology</b>									
T <sub>1</sub>	Farmer practices	As per availability (5-6 irrigation)									
T <sub>2</sub>	To be assessed by KVK	Soil application of Pusa Hydrogel as a soil conditioner @ 5 kg/ha									
4. Source of technology	:	IARI, New Delhi									
5. Production system	:	Irrigated									
6. Thematic area	:	Resource conservation Technology									
7. Performance of the Technology with performance indicators	:	Moisture percentage and yield									
8. Final recommendation for micro level situation	:	First year experiment									
9. Constraints identified and feedback for research	:	-									
10. Process of farmers participation and their reaction	:	Group meetings and Field visits									

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#### 4.6 : Trial-6

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1. Title	:	Assessment of technology for Haemoglobin maintain in adolescent girls									
2. Problem diagnose/defined	:	Low level of Haemoglobin in adolescent girls									
3. Details of technologies selected for assessment /refinement	:	<table><thead><tr><th></th><th>Source</th><th>Technology</th></tr></thead><tbody><tr><td>T<sub>1</sub></td><td>Recommended</td><td>Iron supplement capsules</td></tr><tr><td>T<sub>2</sub></td><td>To be assessed by KVK</td><td>Kuler (Bajara flour + Ghee + Jeggary Mix) 40 gm + Date palm-40 gm/day for 3 months</td></tr></tbody></table>		Source	Technology	T <sub>1</sub>	Recommended	Iron supplement capsules	T <sub>2</sub>	To be assessed by KVK	Kuler (Bajara flour + Ghee + Jeggary Mix) 40 gm + Date palm-40 gm/day for 3 months
	Source	Technology									
T <sub>1</sub>	Recommended	Iron supplement capsules									
T <sub>2</sub>	To be assessed by KVK	Kuler (Bajara flour + Ghee + Jeggary Mix) 40 gm + Date palm-40 gm/day for 3 months									
4. Source of technology	:	Dept. of Health, Govt. of Gujarat.									
5. Production system	:										
6. Thematic area	:	Woman and child care.									
7. Performance of the Technology with performance indicators	:	Hb percentage in blood									
8. Final recommendation for micro level situation	:	First year experiment									
9. Constraints identified and feedback for research	:	-									
10. Process of farmers participation and their reaction	:	Group meetings and Field visits									

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## New OFT

### 4.7 : Trial- 7

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1.	Title	:	To assess the effect of probiotic on milk production.
2.	Problem diagnose/define	:	Improper mixing and proportion of cereals, legumes and concentrate in animal feed leads to imbalance microbial activity and result in to low digestibility which leads to decrease milk production.
3.	Details of technologies selected for assessment	:	T1 - <i>Farmers practice</i> (Dry and green fodder, concentration and cotton seed cake) T2 - <i>Assessment</i> : T1 + Use of Probiotic in animal feed (Probiotic 20 gm per day for 60 days)
4.	Source of technology	:	SAU,Gujarat
5.	Production system	:	-
6.	Thematic area	:	Feed Management
7.	Performance of the Technology with performance indicators	:	1. Milk production per lactation
8.	Final recommendation for micro level situation	:	First year.
9.	Constraints identified and feedback for research	:	-
10.	Process of farmers participation and their reaction	:	Farmer : 10 , Group meetings and field visits

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#### 4.8 : Trial 8

1. Title	:	Assessment of technology for management of alternaria blight in cumin									
2. Problem diagnose/defined	:	Very low yield and low market price due to inferior seed quality									
3. Details of technologies selected for assessment /refinement	:	<table border="1"> <thead> <tr> <th></th> <th>Source</th> <th>Technology</th> </tr> </thead> <tbody> <tr> <td>T<sub>1</sub></td> <td>Recommended by SAU's</td> <td>Seed treatment with thiram @ 5 gm/kg seeds followed by Sprays of Mancozeb 75% WP, 0.25% with soap solution starting from 35 DAS at 10 days interval</td> </tr> <tr> <td>T<sub>2</sub></td> <td>To be assessed by KVK</td> <td>Seed treatment with thiram @ 5 gm/kg seeds followed by spray of propineb 70% WP, 0.2% with soap solution starting from disease initiation at 10 days interval</td> </tr> </tbody> </table>		Source	Technology	T <sub>1</sub>	Recommended by SAU's	Seed treatment with thiram @ 5 gm/kg seeds followed by Sprays of Mancozeb 75% WP, 0.25% with soap solution starting from 35 DAS at 10 days interval	T <sub>2</sub>	To be assessed by KVK	Seed treatment with thiram @ 5 gm/kg seeds followed by spray of propineb 70% WP, 0.2% with soap solution starting from disease initiation at 10 days interval
	Source	Technology									
T <sub>1</sub>	Recommended by SAU's	Seed treatment with thiram @ 5 gm/kg seeds followed by Sprays of Mancozeb 75% WP, 0.25% with soap solution starting from 35 DAS at 10 days interval									
T <sub>2</sub>	To be assessed by KVK	Seed treatment with thiram @ 5 gm/kg seeds followed by spray of propineb 70% WP, 0.2% with soap solution starting from disease initiation at 10 days interval									
4. Source of technology	:	SAU's (AAU, Anand)									
5. Production system	:	Irrigated									
6. Thematic area	:	Disease Management									
7. Performance of the Technology with performance indicators	:	Percent disease infestation and yield									
8. Final recommendation for micro level situation	:	First year experiment									
9. Constraints identified and feedback for research	:	-									
10. Process of farmers participation and their reaction	:	Group meetings and Field visits									

#### 4.9 Trial- 9

1. Title	:	Foliar nutrition of Citrus special for high yield and quality of Acid lime	
2. Problem diagnose/defined	:	Yield loss due to deficiency of micro nutrients	
3. Details of technologies selected for assessment /refinement	:	<b>Source</b>	<b>Technology</b>
		T <sub>1</sub> Recommended by SAU's	Spraying of 0.5 % ZnSo <sub>4</sub> , 0.5 to 0.75 % FeSo <sub>4</sub> and 2.5% lime solution at the time of emergence of new leaves.
		T <sub>2</sub> to be assessed by KVK	Six foliar spray of citrus special @ 5 gm/lit water during June, July, August and November, December, January.
4. Source of technology	:	IIHR, Bangalur	
5. Production system	:	Irrigated	
6. Thematic area	:	Integrated Nutrient Management	
7. Performance of the Technology with performance indicators	:	No. of fruit per plant, Fruit yield per plant (kg)	
8. Final recommendation for micro level situation	:	First year experiment	
9. Constraints identified and feedback for research	:	-	
10. Process of farmers participation and their reaction	:	Group meetings and Field visit, Field day	



## 5. EXTENSION ACTIVITIES:

Sl. No.	Activity	I April-June	II July- Sept.	III Oct-Dec	IV Jan- Mar.	Total
1	Field day	4	6	10	10	30
2	Agri. Exhibition				1	1
3	Scientist Farmer interaction		1		1	2
4	Farm Science Club	0	1	0	1	2
5	Mahila Mandal	1	0	1	0	2
6	Ex-Trainees meeting				1	1
7	Celebration of important days		1	1		2
8	Diagnostic Service					
	Farmers visit to K.V.K.	25	25	150	100	300
	Scientific visit to farmers field	5	5	5	5	20
9	Lectures to be delivered in other programme					as per allotment
10	Night Training Camps	1	1	1	1	4
11	Distribution of seed/seedling on no profit basis	30 qt/25000	100000	2 qt / 100000	3 qt	35 qt / 225000
12	Soil and water sample analysis	150			150	300
13	Publication					
	1. Popular article to be published	1	1	1	1	4
	2. Pamphlet / Folders	1	1	1	1	4
	3. Success story			1	1	2
	4. Case study			1		1
14	Communication Media					
	Radio talk					as per allotment
	TV/Film show	4	4	4	4	16
	News paper coverage	1	2	2	1	6
15	Group meeting	2	1	1	1	5
16	Trainer's training	1			1	2
17	Exposure visit	1	1			2
18	PRA	2				2
19	Method Demonstration	1	1	1	1	4
20	Subscription of agricultural magazines	5	5	5	5	20
21	Ex trainee Sammelan	1				1
22	Animal health fair/camps	3	3	3	3	12
23	Workshops/Seminar			1	1	2

## 6. Production and supply of Technological products

### 6.1 SEED MATERIALS

Season	Crop	Variety	Area (ha)
Kharif	Greengram	GM-4	0.25
	Sesamum	GT-3	0.25
	Blackgram	GU-1	0.4
	Groundnut	GJG-9	0.25
	Fennel	GF-12	0.40
	Cluster bean	GG-2	0.4
	Rabi	Wheat	GW-496
Wheat		GW-11	0.3
Mustard		GM-4	0.25
Cumin		GC-4	0.25
Lucerne		AL-3	0.25
Tobacco		DCT-4	0.25
Summer		Clusterbean	GG-2
	Sesamum	GT-3	0.25

### 6.2 SEEDLING PRODUCTION

Crop	Variety	Numbers
Lime	Kagzi	25000
Tobacco	DCT-4	100000
Fennel	GF-12	100000

## 7. INFRASTRUCTURAL DEVELOPMENT:

Sr. No	Particulars	Rs (in Lakh)
<b>1. Works</b>		
a	Extension of administrative building	40.00
b	Rain water harvesting	10.00
c	Land leveling	05.00
d	Home Science Lab	10.00
e	Bio Gas unit	03.00
f	Dairy Unit	10.00
g	Fencing	50.00
h	Bore well	15.00
i	Green House	25.00
j	Food Processing Unit	10.00
k	Engineering workshop	15.00
l	Irrigation system	10.00
m	Pesticides and fertilizer storage godown	5.00
n	Crop Cafeteria	3.00
o	Micro irrigation system	10.00
<b>Total(1)</b>		<b>221.00</b>
<b>2. Equipments</b>		
a	Generator	1.00
b	AI Equipment	1.25
<b>Total (2)</b>		<b>2.25</b>
<b>3. Audio Visual Aids</b>		
a	Handy cam Video camera	1.00
b	Touch Screen Multi	3.00
c	Rural Computer Lab	5.00
d	Touch Screen Multi Media Crop Information system	5.00
e	Handicam Video Camera	1.00
<b>Total (3)</b>		<b>15.00</b>
<b>4. Farm Implements</b>		
a	Mini Harvester	15.00
b	Trolley ( Tractor)	1.50
c	Power Weeder	0.65
e	Leveler	5.50
f	Strip Trill Drill	1.25
g	Aeroblast Sprayer	1.50
h	Rersible plough	0.50
i	Disk Harrow	0.50

j	Raised Bed Planter	1.00
k	Tractor Mounted Pit Digger	1.50
	<b>Total (4)</b>	<b>28.90</b>
<b>5. Vehicles</b>		
a	Bicycle	<b>0.04</b>
	<b>Total (5)</b>	<b>0.04</b>
<b>Total (1+2+3+4+5)</b>		<b>267.19</b>

### **8. Budget Estimate for the year 2014-15**

Sr.No	Particulars	Total Amount (in Lac)	Remark
<b>A. RECURRING CONTIGENCIES</b>			
1	Pay and Allowance	79.00	
2	Travelling Allowance	1.50	
3	Contingencies	15.00	<b>As per Annexure-I</b>
	<b>TOTAL (A)</b>	<b>95.50</b>	
<b>B. NON RECURRING CONTIGENCIES</b>			
1	Equipments	46.15	<b>As per Annexure-II &amp; EFC Memo XII Plan</b>
2	Works	221.00	<b>As per Annexure-III &amp; EFC Memo XII Plan</b>
3	Vehicles	0.04	<b>As per Annexure-III &amp; EFC Memo XII Plan</b>
4	Library (Purchase of assets like books & Journals)		
	<b>TOTAL (B)</b>	<b>267.19</b>	
	<b>GRAND TOTAL ( A+B)</b>	<b>362.69</b>	

### **Budget Estimate for the year 2014-15**

### **Annexure-I**

Sr. No	Particulars	Rupees (in Lac)
<b>3. Contingency</b>		
a	Stationary, telephone, postage and other expenditure on office running , publication of Newsletters and library maintenance ( Purchase of News Paper & Magazines)	6.00
b	POL , repair of vehicle, tractor and equipments	
c	Meals / refreshment of trainees (ceiling up to Rs.40/- Day/Trainees be maintained )	
d	Training materials (Posters, Charts, demonstration materials including chemicals etc. required for conducting the training)	3.50
e	Training of extension functionaries	
f	Frontline demonstration except oilseeds and pulses	
g	On farm testing ( On need based, location specific and newly generated information in the major production system on the area)	5.00
h	Maintenance of building	0.50
	<b>Total</b>	<b>15.00</b>

**Budget Estimate for the year 2014-15****Equipments**

Sr.No.	Name of Items	Qty	Total Rupees (in Lac)
<b>(a) Furniture</b>			
	<b>Total(a)</b>		<b>0.00</b>
<b>(b) Office Equipments</b>			
a	Generator	1	1.00
b	AI Equipment	1	1.25
	<b>Total(b)</b>	<b>2</b>	<b>2.25</b>
<b>(c) Audio-Visual aids</b>			
a	Handy cam Video camera	1	1.00
b	Touch Screen Multi	1	3.00
c	Rural Computer Lab	1	5.00
d	Touch Screen Multi Media Crop Information System	1	5.00
e	Handicam Video Camera	1	1.00
	<b>Total(c)</b>	<b>5</b>	<b>15.00</b>
<b>(d)</b>	<b>Crop Museum</b>		
<b>(e)</b>	<b>Farm Implements</b>		
a	Mini Harvester	1	15.00
b	Trolley(Tractor)	1	1.50
c	Power Weeder	1	0.65
d	Leveler	1	5.50
e	Strip Trill Drill	1	1.25
f	Aeroblast Sprayer	1	1.50
g	Rersible plough	1	0.50
h	Disk Harrow	1	0.50
i	Raised Bed Planter	1	1.00
j	Tractor Mounted Pit Digger	1	1.50
	<b>Total(e)</b>	<b>10</b>	<b>28.90</b>
	<b>Total (a+b+c+d+e)</b>		<b>46.15</b>

**Budget Estimate for the year 2014-15**

<b>Sr. No</b>	<b>Particulars</b>	<b>Rs (in Lac)</b>
<b>2. Works</b>		
a	Extension of Administrative building ( 200 sq.m.)	40.00
b	Rain water harvesting	10.00
c	Land leveling	05.00
d	Home Science lab	10.00
e	Bio Gas Unit	03.00
f	Dairy Unit	10.00
g	Fencing	50.00
h	Bore well	15.00
i	Green House	25.00
j	Food Processing Unit	10.00
k	Engineering Workshop	15.00
l	Irrigation System	10.00
m	Pesticides and fertilizer storage godwn	5.00
n	Crop Cafeteria	3.00
o	Micro irrigation System	10.00
<b>Total(2)</b>		<b>221.00</b>
<b>3. Vehicles</b>		
a	Bicycle - One	0.04
<b>Total (3)</b>		<b>0.04</b>