



# ANNUAL ACTION PLAN



1<sup>st</sup> APRIL-2014 TO 31<sup>ST</sup> MARCH-2015

**SUBMITTED TO**  
**ZONAL PROJECT DIRECTORATE**  
**ZONE-VI, JODHPUR**



**SUBMITTED BY**  
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**TA.: SIDHPUR, DIST.:PATAN (N.G.)**

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# ANNUAL ACTION PLAN



GUJARAT STATE



PATAN DISTRICT

(1<sup>ST</sup> APRIL-2014 TO 31<sup>ST</sup> MARCH-2015)

## MAJOR THRUST AREA

**Thrust area identified through PRA or any other method.**

- 1. Average productivity of major crops (Castor, Mustard, Cotton, Cumin, Wheat & Green-gram, Carrot) is low**  
It can be increased by
  - ✓ Adoption of improved and high yielding variety.
  - ✓ Adoption of Plant Protection measures and I.P.M.
  - ✓ Use of organic manures and chemical fertilizer management.
- 2. In adequate irrigation water**  
It can be solved by
  - ✓ Adoption of drip irrigation.
  - ✓ Irrigation in alternate furrow method.
  - ✓ Adoption of less water required crops
- 3. Reclamation of Alkaline soil.**
  - ✓ It can be solved by using soil amendment.
- 4. Area under fruits and vegetable crops is very low.**  
It can be solved by
  - ✓ Introduction of fruits and vegetables crops.

**5. Unavailability of Agril. labour**

**It can be solved by**

- ✓ Farm mechanization

**6. Post harvest technology in fruit and vegetable crops is highly required.**

- ✓ Training regarding, Grading, packing, Transportation and marketing techniques.

**7. Average milk production per animal is low**

**It can be increased by**

- ✓ Fodder management
- ✓ Selection of breed.
- ✓ Health care management

**8. Requirement of value addition of fruits and vegetable.**

- ✓ Preparation & Preservation of pickles, Jam, Jelly, Squash, Candy.

**9. Low income of landless agril. labour**

- ✓ Income generation activities through agro. base gruh udyog.
- ✓ Women empowerment through income generation activities.

**10. Scope & importance of solar energy- Solar Coker**

**QUARTER WISE SUMMARY OF ANNUAL ACTION PLAN OF KVK - PATAN FOR THE  
YEAR: 2014-15  
(1<sup>ST</sup> April.-2014 TO 31<sup>ST</sup> March. -2015)**

**1. TRAINING PROGRAMME: -**

S. N.	Subject	ON CAMPUS															
		PF				FW				RY				EF			
		I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
1.	Crop Production	3	3	3	3	-	-	-	-	1	-	-	1	-	-	-	-
2.	Horticulture	3	3	3	3	-	-	-	-	1	1	-	-	-	-	-	-
3.	Plant Protection	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
4.	Animal Science	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.	Home Science	-	-	-	-	3	3	3	3	1	1	1	1	-	-	-	-
6.	Agril. Engg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.	Multi. Discipline	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.	Plant Breeding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.	Rural Craft	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total :-																

S. N.	Subject	Sponsored				On Campus				Off Campus				Grand Total
		I	II	III	IV	I	II	III	IV	I	II	III	IV	
1.	Crop Production					4	3	3	4	3	3	3	3	
2.	Horticulture					4	4	3	3	3	3	3	3	
3.	Plant Protection					3	3	3	3	3	3	3	3	
4.	Animal Science					-	-	-	-	-	-	-	-	
5.	Home Science					4	4	4	4	3	3	3	3	
6.	Agril. Engg.					-	-	-	-	-	-	-	-	
7.	Multi. Discipline					-	-	-	-	-	-	-	-	
8.	Plant Breeding					-	-	-	-	-	-	-	-	
9.	Rural Craft													
	Total :-													

PF : Practicing Farmer  
FW: Farm Women

RY : Rural Youth  
EF : Extension Functionaries

## 2. DEMONSTRATION :-

Sr. No.	Type of Demonstration	Crop	Farming situation	No. of Demonstration	Area (ha.)
1.	F.L.D.				
	I. Kharif				
	1. Cotton- Crop production	Cotton	Irrigated	30	15
	2. Castor- Crop production	Castor	Irrigated	30	15
	3. Black-gram-Crop production	Black-gram	Rainfed	30	15
	4. Green-gram-Crop production	Green-gram	Rainfed	30	15
	II. Rabi				
	1. Wheat- Crop production	Wheat	Irrigated	30	15
	2. Mustard- Crop production	Mustard	Irrigated	30	15
	3. Potato- Crop production	Potato	Irrigated	20	10
	4. Cumin- horticulture	Cumin	Irrigated	30	15
	5. Fennel-Horticulture	Fennel	Irrigated	30	15
	6. Lucerne		Irrigated	30	15
	7. Chilli		Irrigated	20	10
	8. Carrot		Irrigated	20	10
	9. Farm implement		----	20	

## 3. ON FARM TESTING :-

- 3.1. Lower income of cotton mono crop
- 3.2. Low yield of cumin
- 3.3. Low yield of cumin
- 3.4. Low yield of Mustard
- 3.5. Lower income from lemon fruit
- 3.6. Low yield of carrot
- 3.7. Low yield of wheat

#### 4. EXTENSION ACTIVITIES :-

Sr.No.	Activity	Total
1.	Field day	10
2.	Method demonstration	04
3.	Ex-trainee meeting	02
4.	Agri. Exhibition	02
5.	Kisan Mela	01
6.	Kisan Gosthies	02
7.	Celebration of important day	02
8.	Exposure visit	01
9.	Diagnostic visit	As per need
10.	Radio/TC talks	02
11.	Extension literature (No.)	12
12.	Self help group	02
13.	Farm science club	02
14.	Lecture delivered in other programme	08
15.	Soil & water sample analysis	200
16.	Scientist farmers interaction	01
17.	Publication -Popular article to be published -Success story -Case study	04 01 01
18.	Communication media -New paper coverage -Subscription for agril magazine	08

#### 5. PROPOSED PLAN OF WORK FOR INSTRUCTIONAL FARM :-

5.1.	Crop Production	-	9.0 ha.
5.2.	Horticulture	-	5.0 ha.
5.3.	Demonstration	-	2.0 ha.
5.4.	Land under development	-	3.0 ha.
5.5.	Land under Infrastructure facility	-	1.0 ha.

**6. INFRASTRUCTURE DEVELOPMENT :-**

Details is given in report

**7. S.A.C. MEETING PROPOSED :-**

March-2015



## 1. VOCATIONAL TRAINING PROGRAMME :-

### 1.1. On-Campus Programme :-

Sr. No.	Subject	Title of Training	Date	Duration	No.of Participants	Type of participants
<b>I- QUARTER</b>						
1.	Crop Production	Importance of summer plugging and green manuring for higher crop production	April-14	03	20	Farmer
		Scientific cultivation of green gram and black gram	May-14	03	20	Farmer
		Scientific cultivation of BT Cotton	June-14	03	20	Farmer
		Seed production technology of kharif pulses viz green-gram, black-gram	June-14	03	20	Rural youth
2.	Horticulture	Nursery Raising of papaya seed	April-14	03	20	Farmer
		Training & pruning technique in fruit (Pomegranate & Lime)	May-14	03	20	Farmers
		Training & pruning technique In fruit crops	May-14	03	20	Rural youth
		Plant Propagation technique in fruit crops	June-14	07	15	Farmer
3.	Plant Protection	Identification of pest & diseases of vegetable crops & their management	April-14	03	20	Farmer
		Identification of Bio-agents & their role in insect pest management Safely & effective use of pesticides for pest & disease management	May-14	03	20	Farmer
		Preventive measures to control the sucking pest & parawilt in BT cotton	June-14	03	20	Farmer
4.	Animal Sci.	-	-	-	-	-
5.	Home Science	Preparation of various of mari masala, chilli powder, Haldi powder	April-14	03	20	Farm women
		Preparation and preservation of mango products	May-14	03	20	Farm women
		Alternate source of energy solar cooker Bio-gas and smokeless chulha.	June-14	15	15	Farm women

		Tailoring course in women and children garments	June-14	15	15	Rural youth
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Sr. No.	Subject	Title of Training	Date	Duration	No. of Participants	Type of participants
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## II- QUARTER

1.	Crop Production	Advances in Castor production technology	July-14	03	20	Farmer
		Parthenium grass a threat to human animals and crops its management	Aug.-14	03	20	Farmer
		Nursery raising of tobacco	Sep.-14	03	20	Farmer
2.	Horticulture	Fertilizer & nutrient management in kagzi lime	July-14	03	15	Farmer
		Nursery raising of vegetable crops	Aug.-14	03	20	Farmer
		Bahar treatment in pomegranate	Sep.-14	03	20	Farmer
		Plant propagation technique in fruit crops	Sept.-14	03	20	Rural youth
3.	Plant Protection	Precautionary measures to control the pest & diseases of castor	July-14	03	20	Farmer
		Control measures of pest & diseases of pomegranate & citrus	Aug.-14	03	20	Farmer
		Plant protection measures of insect pest of chilli & tomato	Sep.-14	03	20	Farmer
4.	Animal Science	-	-	-	-	-
5.	Home Science	Importance and techniques of kitchen gardening	July-14	03	20	Farm women
		Income generation activities for empowerment of rural women	Aug.-14	03	20	Farm women

		Bakery products	Aug.-14	03	20	Rural youth
		Value addition in soya products	Sep.-14	03	20	Farm women

Sr. No.	Subject	Title of Training	Date	Duration	No. of Participants	Type of participants
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### III- QUARTER

1.	Crop Production	Scientific cultivation mustard	Oct.-14	03	20	Farmer
		Scientific cultivation of tobacco Scientific cultivation of Wheat	Nove.-14	03	20	Farmer
		Integrated nutrient management in wheat	Dec.-14	03	20	Farmer
2.	Horticulture	Advances production technology in carrot	Oct.-14	03	20	Farmer
		Importance & scope of protective cultivation in vegetables crops	Nove.-14	03	20	Farmer
		Scientific cultivation of leafy vegetables crop (Spinach, Fenagreele, Coriander)	Dec.-14	03	20	Farmer
3.	Plant Protection	Plan Protection measures of insect pest of cumin	Oct.-14	03	20	Farmer
		Precautionary measures to control the termite in wheat	Nove.-14	03	20	Farmer
		Plant Protection measures of pest & diseases of potato & onion	Dec.-14	03	20	Farmer
4.	Animal Science	-	-	-	-	
5.	Home Science	Preparation o f decorative items from waste materials	Oct.-14	03	20	Farm women
		Dehydration of green leafy vegetable like palak methi.	Nove.-14	03	20	Farm women

		Preparation and preservation of value added products	Dec.-14	03	15	Farm women
		Preparation and preservation of aonla products	Dec.-14	03	15	Rural youth

Sr. No.	Subject	Title of Training	Date	Duration	No.of Participants	Type of participants
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#### IV- QUARTER

1.	Crop Production	Judicious use of herbicides for better crop production	Jan.-15	03	20	Farmer
		Scientific cultivation of summer bajra	Feb.-15	03	20	Farmer
		Production and use of organic manures	March-15	07	15	Farmer
2.	Horticulture	Nursery raising of chilli	Jan.-15	03	20	Farmer
		Scientific cultivation of ber	Feb.-15	03	20	Farmer
		Standard method of sorting, grading & packing in potato	March-15	07	15	Farmer
		Scientific vermin compost production	March-15	03	20	Rural youth
3.	Plant Protection	Identification of lady bird beetle & chrysopa & their role in control of aphids in Lucerne & mustard	Jan.-15	03	20	Farmer
		Integrated pest & disease management of major crops	Feb.-15	03	20	Farmer
		Importance & method of preparation of botanical insecticide, Bordeaux mixture & Bordeaux paste.	March-15	03	20	Farmer
4.	Animal Science	-	-	-	-	-
5.	Home Science	Preparation of value added products chilli pickle, Lemon pickle, carrot pickle, chatney	Jan.-15	02	20	Farm women

		Preparation of various papato chips	Feb.-15	03	20	Farm women
		Importance & method of varmi compost	Feb.-15	03	20	Rural youth
		Use of solar cooker	March-15	03	15	Farm women

## 1.2. Off Campus Programme :-

Sr. No.	Subject	Title of Training	Date	Duration	No.of Participants	Type of participants
<b>I- QUARTER</b>						
1.	Crop Production	Reclamation of problematic soil	April-14	03	20	Farmer
		Irrigation scheduling in kharif crops for higher crop production	May-14	03	20	Farmer
		Integrated weed management in cotton and castor	June-14	03	20	Farmer
2.	Horticulture	Scientific cultivation of pomegranate	April-14	01	20	Farmer
		Advances in production technology of papaya	May-14	01	20	Farmer
		Scientific cultivation of kagzi lime	June-14	01	20	Farmer
3.	Plant Protection	Role of soil solarization in insect pest & disease management	April-14	01	20	Farmer
		Importance of non chemical control measures of insect pest in sustainable agriculture	May-14	01	20	Farmer
		Plant Protection measures of pest & diseases of pulses crops	June-14	01	20	Farmer
4.	Animal Science	-	-	-	-	-
5.	Home Science	Storage of food grains	April-14	01	20	Farm women
		Minimization of nutrient loss while preparation of pulses food	May-14	01	20	Farm women

		Use of solar cooker	June-14	01	20	Farm women
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Sr. No.	Subject	Title of Training	Date	Duration	No. of Participants	Type of participants
<b>II- QUARTER</b>						
1.	Crop Production	Integrated nutrient management in cotton and castor	July-14	03	20	Farmer
		Importance and efficient use of bio-fertilizer	Aug.-14	03	20	Farmer
		Importance and scope of drip and sprinkler irrigation for higher crop production	Sept.-14	03	20	Farmer
2.	Horticulture	Production technology of Bottle gourd	July-14	01	20	Farmer
		Fertilizer & nutrient management in Papaya	Aug.-14	01	20	Farmer
		Scientific cultivation of Brinjal	Sept.-14	01	20	Farmer
3.	Plant Protection	Plant Protection measures of pest & diseases of BT cotton	July-14	01	20	Farmer
		Integrated pest & disease management in castor	Aug.-14	01	20	Farmer
		Integrated pest & disease management in fennel	Sept.-14	01	20	Farmer
4.	Home Science	General disease of children and preparation of ORS	July-14	01	20	Farm women
		Importance of self help group	Aug.-14	01	20	Farm women

		Awareness regarding kitchen appliances (Juicer, Blender, Chilli cutter, Onion catter etc.)	Sept.-14	01	20	Farm women
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Sr. No.	Subject	Title of Training	Date	Duration	No.of Participants	Type of participants
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### III- QUARTER

1.	Crop Production	Scientific cultivation of Rabi fodder crops, Lucerne, Oat and bar seem Scientific cultivation of chickpea	Oct.-14	01	20	Farmer
		Scientific cultivation of fennel Scientific cultivation Rabi maize	Nov.-14	01	20	Farmer
		Integrated weed management in wheat & tobacco	Dec.-14	01	20	Farmer
2.	Horticulture	Scientific cultivation of potato	Oct.-14	01	20	Farmer
		Production technology of cumin	Nov.-14	01	20	Farmer
		Integrated nutrient management in potato	Dec.-14	01	20	Farmer
3.	Plant Protection	Plant Protection measures of mustard	Oct.-14	01	20	Farmer
		Control measures of diseases of cumin & fennel by bi-o-agent	Nov.-14	01	20	Farmer
		Plant Protection measures of chilli & tomato	Dec.-14	01	20	Farmer
4.	Animal Sci.	-	-	-	-	
5.	Home Science	Care and nutrition for children	Oct.-14	01	20	Farm women

		Designing and development for high nutrient efficiency diet.	Nov.-14	01	20	Farm women
		Dehydration of green leafy vegetable like palak, methi etc.	Dec.-14	01	20	Farm women

Sr. No.	Subject	Title of Training	Date	Duration	No.of Participants	Type of participants
<b>IV- QUARTER</b>						
1.	Crop Production	Importance and scope of farming systems for sustainable agriculture	Jan-15	01	20	Farmer
		Scientific cultivation of fodder bajra and sorghum	Feb.-15	01	20	Farmer
		Role of micro nutrient in crop production	Mar.-15	01	20	Farmer
2.	Horticulture	Scientific cultivation of cowpea & cluster bean	Jan-15	01	20	Farmer
		Scientific cultivation of water melon	Feb.-15	01	20	Farmer
		Scientific cultivation of Okra	Mar.-15	01	20	Farmer
3.	Plant Protection	Plant Protection measures of insect pest of fennel	Jan-15	01	20	Farmer
		Control measures of sucking pest in vegetables.	Feb.-15	01	20	Farmer
		Plant protection measures in raising the seedlings of fruit & vegetable crops	Mar.-15	01	20	Farmer
4.	Animal Science	-	-	-	-	-
5.	Home Science	Interior decoration and home management	Jan-15	01	20	Farm women
		Kitchen gardening	Feb.-15	01	20	Farm women



		Designing and development of low/ minimum cost diet.	Mar.-15	01	20	Farm women
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### 1.3. Sponsored Training Programme :-

Sr. No.	Title of Training	Month	Duration	No. of participant	Type of participant	Sponsoring Agency
1.	Water use efficiency	May-14	01	25	Farmer	IWMP Patan
2.	Protective cultivation of off seasonal vegetable	June-14	01	25	Farmers	FTC Patan
3.	Integrated pest and disease management	April-14	01	25	Farmers	FTC Patan
4.	Selection and method of application of chemical fertilizer and its efficient use Importance of bio-fertilizer & soluble fertilizer in diff.crops.	July-14	01	25	Farmers	GSFC/GNF C Sidhpur
5.	Fruit & vegetable preservation	May-14	01	25	Farm women	ATMA Patan/FTC Patan
6.	Production technology of data plum	August-14	01	25	Farmers	IWMP Patan
7.	Importance of drip & sprinkler irrigation in Horticulture crop	Jan.-15	01	25	Farmers	IWMP Patan/ ATMA Patan
8.	Awareness about various scheme of NABARD	Feb.-15	01	25	Farmers/Farm women	NABARD

9.	Integrated weed management	June-15	01	25	Farmers	FTC Patan IWMP
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#### 1.4. In-service Training Programme :-

Subject	Title of Training	Month	Duration (Days)	No,of participant	Type of participant
Agriculture	Training need assessment	April-14	02	20	WDT & MDT
	Awareness regarding latest know how of agriculture	June-14	02	20	VLW & Ext. Officer
	Safely & effective use of pesticide	Dec.-14	01	20	Agro input dealer
	New production technique & water use efficiency in agriculture	Jan.-15	02	20	WDT & MDT
	Nursery raising	July-14	01	20	WDT & MDT
Home Science	Fruit & vegetable preservation	May-14	01	20	Anganwadi worker
	Formation & management of SHG	Dec.-14	01	20	Anganwadi worker/WDT & MDT
Animal Science	Importance of A.I. in livestock production	Aug.-14	01	20	Dairy mantri

## 2. DEMONSTRATION

### Front Line Demonstration

Title of Demonstration	Objective	Variety	Farming situation	Area (ha.)	No. of farmers	Existing Technology	Specific technology intervention	Critical Inputs	Remarks
I. Kharif									
Cotton	Integrated nutrient management  To introduce high yielding variety	G.Cot. 6 BG-II  G.Cot. 8 BG-II	Irrigated	15	30	No use of Micronutrient  Use of conventional variety  No use of bio-fertilizer	Application of micronutrient mixture sardar amin  Improved variety  Use of bio-fertilizer	Sardar Amin  Seed of G.Cot.6 BG-II  G.Cot.8 BG-II variety PSB & Azotobactor	Kharif
Castor	To introduce wilt and root rot resistant and high yielding variety	GCH-7	Irrigated	15	30	GCH-4 & GCH-2 variety  No use of Bio-fertilizer  No use of fungicide  No use of ferti. As per recommendation	Wilt resistant & high yielding variety  Use of bio-fertilizer  Seed treatment with fungicide  Recommended dose of fertilizer	Seed of GCH-7 variety  Azatobactor & PSB culture  Carbendenzim & Trichoderma  Urea, DAP, A.S.	Kharif
Green-gram	To introduce high yielding variety	GM-1	Rainfed	15	30	Local variety  No use of bio-fertilizer	Improved variety  Seed treatment with bio-fertilizer	Seed of GM-1 variety  Rhizobium culture & PSB culture	Kharif
Green-gram	Introduce high yielding variety	GM-4	Rainfed	15	30	Local variety & K-	Improved variety	Seed of GM-4 variety	Kharif

						851	No use of bio-fertilizer	Seed treatment with bio fertilizer	Rhizobium & PSB culture	
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Title of Demonstration	Objective	Variety	Farming situation	Area (ha.)	No. of farmers	Existing Technology	Specific technology intervention	Critical Inputs	Remarks
II. Rabi									
Wheat	To introduce & popularize high yielding variety	GW-366	Irrigated	15	30	GW-496 variety Local variety  No use of ZnSO <sub>4</sub>  No use of pesticide for seed treatment	Improved variety  Use of ZnSO <sub>4</sub>  Seed treatment with pesticide	Seed of GW-366 variety  ZnSO <sub>4</sub>  Regent	Rabi
Mustard	To introduce high yielding variety	GDM-4	Irrigated	15	30	Use of GM-3 & Local Variety  No use of sulphar	Improved variety  Use of element sulphar or soil application	Seed of GDM-4  Sulphar	Rabi
Potato	To introduce high yielding variety	Kafri Pukhraj	Irrigated	10	20	Use of local variety  No seed treatment	Improved variety  Seed treatment with fungicide	Seed of kufri pukhraj variety  Dith-M-45	Rabi
Cumin	To introduce high yielding variety	GC-4	Irrigated	15	30	Local variety  No use of fungicide	Improved variety  Seed treatment with fungicide  Seed treatment with bio-fungicide	Seed of GC-4 variety  Dith-M-45  Trichoderma	Rabi
Fennel	To introduce high yielding variety	GF-12	Irrigated	15	30	Local variety  No use of fungicide	Improved variety  Seed treatment with fungicide	Seed of GF-12 variety  Dith-M-45	Rabi

Lucerne	To introduce high yielding variety	Anand-2	Irrigated	15	40	Local variety	Improved variety	Seed & Anand-2 variety	Rabi
Chilli	To introduce high yielding variety	Guj. Chilli-3	Irrigated	10	20	Local Variety	Improved variety	Seed of Guj.Chilli-3 variety	Rabi
Carrot	To introduce high yielding	Pusa Rudhira	Irrigated	10	20	Local variety	Improved variety	Seed of Pusa Rudhira variety	Rabi
Farm implement	Labour saving	Hoe	-	-	20	-	Home Hoe	-	-

### 3. ON FARM TESTING :-

#### (I) Crop : Cotton + Castor

**Title** : Lower income of Cotton mono crop

**Intervening point** : Not sown inter crop

**Thematic area** : Integrated crop management

**Treatments** :

T1 : Farmers practices  
- No inter crops

T2 : SAU recommendation  
- Inter cropping with pulses i.e. Green-gram

T3: Refined/assessed technology  
- Inter cropping with castor

**Replication** : 10

**Note** : Sowing time : Cotton : 1<sup>st</sup> fortnight of June

Castor : Last week of August

#### (II) Crop : Cumin

**Title** : Low yield of Cumin  
**Intervening point** : Infection of wilt disease  
**Thematic area** : Integrated disease management

**Treatments** :

T1 : Farmers practices  
- No seed treatment

T2 : SAU recommendation  
- Seed treatment by Carbendazi, 50 WP @ 3g./1 kg. seed

T3: Refined/assessed technology  
- T2 + Seed treatment by Trichoderma and soil application of Trichoderma @ 3kg./ha along with vermin compost

**Replication** : 10

**(III) Crop : Cumin**

**Title** : Low yield of Cumin  
**Intervening point** : Poor germination of the crop  
**Thematic area** : Integrated nutrient management  
**Treatments** :

T1 : Farmers practices  
- No seed treatment

T2 : SAU recommendation  
- Seed treatment by Azospirillum & PSB culture

T3: Refined/assessed technology  
- T2 + Seed treatment by Humic acid @ 5 ml./1 kg. seed  
& spraying the crop @ 0.5 ml./ 1 lit water at 30,45 & 60  
DAS

**Replication** : 10

**(IV) Crop : Mustard**

**Title** : Low yield of Mustard

**Intervening point** : Sulphar defficiency

**Thematic area** : Integrated nutrient management

**Treatments** :

T1 : Farmers practices  
- Use of local variety  
- Use of DAP fertilizer for  $P_2O_5$  & Urea

T2 : SAU recommendation  
- Use of GDM-4 variety  
N= 50 kg,  $P_2O_5$  =50kg  
- Source of  $P_2O_5$  S.S.P  
-Seed treatment with PSB

**Replication** : 10

**Inputs** : Seed : GDM-4  
PSB and S.S.P.

**(V) Crop : Kagzi Lime**

**Title** : Lower income from lemon fruit

**Intervening point** : Low yield of fruit in summer season

**Thematic area** : Integrated crop management

**Treatments** :

T1 : Farmers practices

- Digging of upper surface of soil of orchard in September and with holding of irrigation for 20 days

T2: Refined/assessed technology

- T1 + Two sprays of 500 ppm Cycocel at 15 days interval in Sept.-Oct.

**(VI) Crop : Carrot**

**Title** : Low yield of Carrot

**Intervening point** : Use of local variety

**Thematic area** : Integrated crop management

**Treatments** :

T1 : Farmers practices

- Use of local variety

T2: Refined/assessed technology

- Use of Pusa Rudhira variety

**Replication** : 10



**(VII) Crop : Wheat**

**Title** : Low yield of Wheat

**Intervening point** : Infection of termite

**Thematic area** : Integrated pest management

**Reason** :

- (i) Use of local variety
- (ii) No adoption of irrigation & fertilizer management
- (iii) Not properly adopted the pest management practices

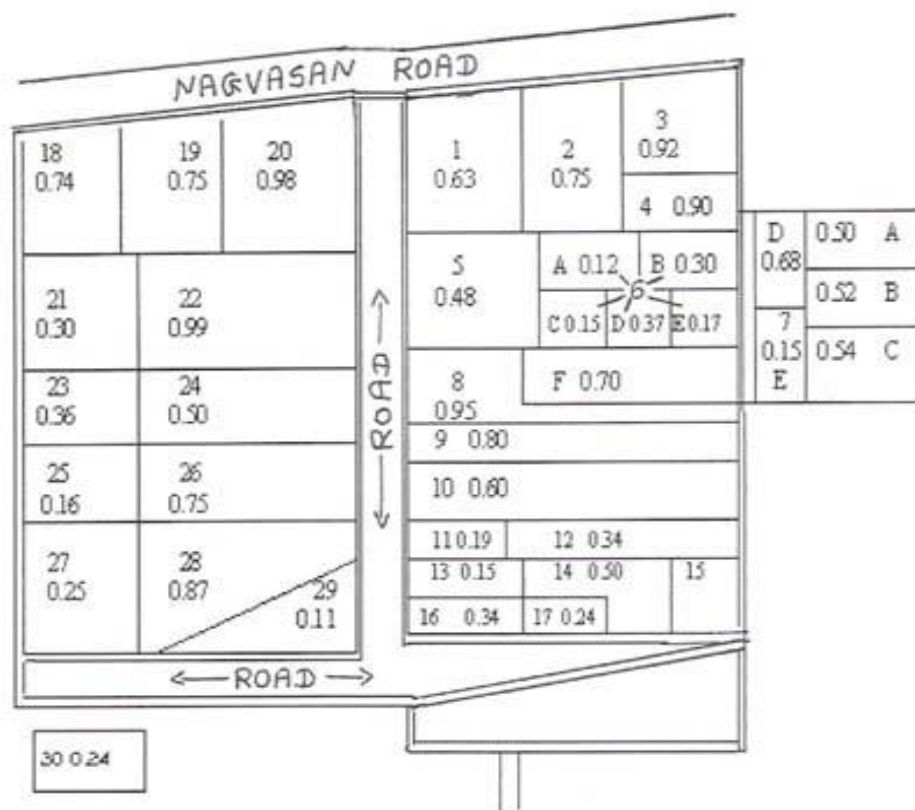
**Treatments** :

- T1 : Farmers practices
  - No seed treatment by Pesticide
- T2 : SAU recommendation
  - Seed treatment by Chlorpyriphos 20EC @ 4.5 ml./ 1 kg seed/ 50 ml. water before sowing
- T3: Refined/assessed technology
  - Seed treatment by Fipronil 5% SC @ 2 ml./ 1 kg seed/ 50 ml. water

#### 4. EXTENSION ACTIVITY :

Sr.No.	Activity	Total
1.	Field day	10
2.	Method demonstration	04
3.	Ex-trainee meeting	02
4.	Agri. Exhibition	02
5.	Kisan Mela	01
6.	Kisan Gosthies	02
7.	Celebration of important day	02
8.	Exposure visit	01
9.	Diagnostic visit	As per need
10.	Radio/TC talks	<b>02</b>
11.	Extension literature (No.)	<b>12</b>
12.	Self help group	02
13.	Farm science club	02
14.	Lecture delivered in other programme	08
15.	Soil & water sample analysis	200
16.	Scientist farmers interaction	01
17.	Publication -Popular article to be published -Success story -Case study	04 01 01
18.	Communication media -New paper coverage -Subscription for agril magazine	08

**5. PROPOSED PLAN OF WORK FOR INSTRUCTIONAL FARM :**



Plot No.	Area (ha.)	Proposed crop		
		Kharif	Rabi	Summer
1	0.63	Green-gram	Mustard	Bajara
2	0.73	Guar	Fennel	
3	0.92	Castor	Continue	
4	0.90	Castor	Continue	
5	0.48	Lemon		
6 A	0.12			
B	0.30		Cumin	
C	0.15			
D	0.37			

E	0.17			
F	0.70			
7 A	0.50	Guar		
B	0.52	Guar		
C	0.54	Guar		
D	0.68	Guar		
E	0.15	Guar		
8	0.95	Mango		
9	0.80	Lemon		
10	0.60	Chiku		

Plot No.	Area (ha.)	Proposed crop		
		Kharif	Rabi	Summer
11	0.18	Lemon		
12	0.34	Lemon		
13	0.15	Lemon		
14	0.50	Lemon		
15	0.29	Lemon		
16	0.34	Tobacco seedling	Wheat	
17	0.24	Lemon		
18	0.74		Mustard	
19	0.75	Cotton		
20	0.98	Cotton		
21	0.30		Tobacco	Bajara
22	0.99	Cotton		
23	0.36			
24	0.50		Tobacco	Bajara
25	0.15	Guava		
26	0.75	Mango		
27	0.25	Mango		
28	0.87		Wheat	
29	0.11			
30	0.24		Wheat	

## 6. INFRASTRUCTURE DEVELOPMENT :

Sr.No.	Particulars	Existing	Proposed during the year 2012-13	Approximate cost
1.	Building			
	1. Office Building	Completed	-	-
	2. Hostel	Completed	-	-
	3. Residential Quarter	Completed	-	-
2.	Demonstration Unit			
	1. Nursery Unit	Completed	-	-

	2. Vermi compost Unit	Completed	-	-
	3. Net House	Completed	-	-
3.	Farm Development			
	1. Tube well	Completed	-	-
	2. Threshing yard	Completed	-	-
	3. Fencing	Completed	-	-
	4. Electrification	Completed	-	-
4.	Any other			
	1. Tractor	-	Proposed for New Tractor	5.0 lakhs

