

ACTION PLAN ***2013-14***

(APRIL – 2013 TO MARCH – 2014)

TO BE PRESENTED AT
ANNUAL ACTION PLAN WORKSHOP OF KVKs OF GUJARAT

ORGANIZED BY
DIRECTOR, ATARI ZONE-VI, ICAR, JODHPUR

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GUJARAT



ACTION PLAN

(APRIL – 2013 TO MARCH – 2014)

It is proposed to organize 79 batches of training programmes for farmers, farmwomen, rural youth and extension functionaries during period from April 2013 to March 2014.

1. Training Programmes :

A. On Campus training (For practicing farmers, farm women and rural youth):

Subject	Title of Training	Dura Days	No.of Parti.	Type of Parti.
I. Quarter : (1st April to 30th June, 2013)				
Crop Poduction	➤ Weed Management	1	25	Farmers
	➤ Integrated farming system	1	25	Farmers
	➤ Seed Production	1	25	Farmers
	➤ Organic Farming	1	25	Farmers
Soil health and fertility mangt.	➤ Soil testing and fertility management	1	25	Farmers
Livestock Prod.	➤ Animal Nutrition and feed management	1	25	Farmers
	➤ Diseases Management	1	25	Farmers
Home Science	➤ Income generation activities for empowerment of rural women	1	25	Rural women
Agril. Engineering	➤ Fertigation through micro irrigation system	1	25	Farmers
	➤ Use of Plastick mulch in farming practices	1	25	Farmers
Plant Protection	➤ Management of mealybug in cotton	1	25	Farmers
	➤ IPM in vegetable crops	1	25	Farmers
	➤ Seed treatment	1	25	Farmers
Fisheries	➤ Cage farming	1	25	Fishermen
Extension	➤ Leadership development	1	25	Farmers
II. Quarter : (1st July to 30th September, 2013)				
Crop production	➤ Water management through micro irrigation system	1	25	Farmers
	➤ Integrated crop management of chikori & ajwain	1	25	Farmers
	➤ Organic Farming	1	25	Farmers
Soil health and fertility mangt.	➤ Integrated Nutrient management	1	25	Farmers
Livestock Prod.	➤ Animal Nutrition and feed management	1	25	Farmers
	➤ Diseases Management	1	25	Farmers
Home science	➤ household food securities by kitchen gardening and nutrion gardening	1	25	Farm Women
Agril. Engineering	➤ Fertigation through micro irrigation system	1	25	Farmers
Plant protection	➤ Integrated pest management kharif major crops (G'nut, cotton, castor, sesamum)	1	25	Farmers
	➤ Pest management in vegetable crops	1	25	Farmers
	➤ Bio control of pest and disease of cotton	1	25	Farmers
Fishries	➤ Composite fish culture	1	25	Farmers
Extension	➤ Strengthening of selfhelp groups	1	25	Rural youth
III. Quarter (1st Oct to 31st Dec, 2013)				
Crop production	➤ Water management through micro irrigation system	1	25	Farmers
	➤ Weed management	1	25	Farmers
	➤ Seed Production	1	25	Farmers
	➤ Organic Farming	1	25	Farmers
Horticulture	➤ Production & Management practices of spices	1	25	Farmers
Soil health and fertility mangt.	➤ Nutrient use efficiency	1	25	Farmers
Livestock Prod.	➤ Animal Nutrition and feed management	1	25	Farmers

Home Science	➤ Women and child care	1	25	Rural women
Agril. Engineering	➤ Fertigation through micro irrigation system	1	25	Farmers
	➤ Use of plastics mulch in farming practices	1	25	Farmers
Plant Protection	➤ Interated pest management in oil seed crops	1	25	Farmers
	➤ IDM in Cumin crop	1	25	Farmers
	➤ IPM in brinjal and chilli	1	25	Farmers
Fisheries	➤ Fresh water prawn farming	1	25	Fish farmers
Ext.Education	➤ Development of enerpreniurship among rural youths	1	25	Rural youth
IV. Quarter (1st Jan to 31st March, 2014)				
Crop Production	➤ Organic Farming	1	25	Farmers
Horticulture	➤ Protective cultivation (Green House, shed net etc.)	1	25	Farmers
Livestock Prod.	➤ Animal Nutrition and feed management	1	25	Farmers
Home science	➤ Value addition in agricultural production	1	25	Rural Girls
Agril. Engineering	➤ Fertigation through micro irrigation system	1	25	Farmers
	➤ Operation and maintance of MIS	1	25	Farmers
Plant protection	➤ Pest management of vegetable crops	1	25	Farmers
	➤ Seed treatment in summer crop	1	25	Farmers
	➤ Pest and disease management in cumin	1	25	Farmers
Fishries	➤ Crab fattening	1	25	Fish Farmers
Extension	➤ Leadership development among rural youths	1	25	rural youth

B. Off Campus training (For practicing farmers, farm women and rural youth)

Subject	Title of Training	Dura Days	No.of parti.	Type of Parti.
I. Quarter : (1st April to 30th June, 2013)				
Crop Production	➤ Weed Management	1	50	Farmers
	➤ Integrated farming	1	50	Farmers
	➤ Water management through micro irrigation system	1	50	Farmers
	➤ Organic Farming	1	50	Farmers
Soil health and fertility mangt.	➤ Soil fertility management	1	50	Farmers
Livestock Prod.	➤ Animal Nutrition and feed management	1	50	Farmers
Home Science	➤ Value addition in mango	1	50	Rural Girls
	➤ Use of Solar cooker	1	50	Rural girls
Agril. Engineering	➤ Fertigation through micro irrigation system	1	50	Farmers
	➤ Use of Plastick mulch in farming practices	1	50	Farmers
Pl. Protection	➤ Integrated pest and disease management in field crops	1	50	Farmers
	➤ management of store grain pest in groundnut and pulse crop	1	50	Farmers
Fisheries	➤ Shrimp farming	1	50	Fish farmer
	➤ Cage farminging			Fisher men
Extension	➤ Leadership development among rural youths	1	50	Rural youth
II. Quarter : (1st July to 30th September, 2013)				
Crop production	➤ Water management through imcro irrigation system	1	50	Farmers
	➤ Organic Farming	1	50	Farmers
Soil health and fertility mangt.	➤ Integrated Nutrient management	1	50	Farmers
Livestock Prod.	➤ Animal Nutrition and feed management	1	50	Farmers

Home science	➤ women and child care	1	50	Farm Women
	➤ Location specific drudegry reduction technologies	1	50	Farm women
Agril. Engg.	➤ Fertigation through micro irrigation system	1	50	Farmers
Pl. Protection	➤ Management of sucking pest in cotton	1	50	Farmers
	➤ Management of diseases in Kharif crops	1	50	Farmers
	➤ IDM in cotton and sesame	1	50	Farmers
Fishries	➤ Composite fish culture	1	50	Fish farmers
	➤ Feed management in fish farming	1	50	Fish farmers
Extension	➤ Group dynamics	1	50	Farmers
III. Quarter (1st Oct to 31st Dec, 2013)				
Crop production	➤ Water management through micro irrigation system	1	50	Farmers
	➤ Weed management	1	50	Farmers
	➤ Seed Production	1	50	Farmers
	➤ Organic Farming	1	50	Farmers
Horticulture	➤ Production & Management practices of spices	1	50	Farmers
Soil health and fertility mangt.	➤ Nutrient use efficiency	1	50	Farmers
Livestock Prod.	➤ Animal Nutrition and feed management	1	50	Farmers
Agril. Engg.	➤ Fertigation through micro irrigation system	1	50	Farmers
	➤ Use of plastics mulch in farming practices	1	50	Farmers
Home Science	➤ Rural crafts	1	50	Rural women
	➤ Value addition in fruits and vegetables through jam, jelly, catchup, pickles, etc.	1	50	Rural women
Pl. Protection	➤ Disease and pest management in cumin and gram	1	50	Farmers
	➤ Management of pest in rabi crops	1	50	Farmers
	➤ IPM in gram and mustard crop	1	50	Farmers
Fisheries	➤ Sea weed farming	1	50	Fish Farmers
	➤ Fresh water prawn farming			Fish Farmers
Extension Education	➤ Capacity building of SHGs.	1	50	Rural youth
IV. Quarter (1st Jan to 31st March, 2014)				
Crop Production	➤ Recycling of Farm Waste material	1	50	Farmers
	➤ Organic Farming	1	50	Farmers
Horticulture	➤ Protective cultivation (Green House, shed net etc.)	1	50	Farmers
Livestock Prod.	➤ Animal Nutrition and feed management	1	50	Farmers
Home science	➤ Value addition in aonla and nutritive value	1	50	Rural women
Agril. Engineering	➤ Fertigation through micro irrigation system	1	50	Farmers
	➤ Operation and maintance of MIS	1	50	Farmers
Pl. Protection	➤ Integrated diseases management in gram and mustard crop	1	50	Farmers
	➤ Integrated disease management in cumin	1	50	Farmers
Fishries	➤ Crab fattaning	1	50	Fish farmers
Extension	➤ Leadership development among rural youth	1	50	Rural youth

C. Vocational Training:

Sr. No.	Title of Training	Dura.Days	No. of parti	Type of Parti.
1.	➤ Preservation of vegetables and fruits	1	25	Rural Girls
2.	➤ Preservation of mango pulp	1	25	Farm women

D. Extension Functionaries:

Sr. No.	Title of Training	Dura. Days	No. of parti.	Type of Parti.
1.	➤ Pre-seasonal training on kharif crops	1	20	Extension workers
2.	➤ Integrated Disease management in Kharif crops	1	20	Extension Workers
3.	➤ Production technology in rabi crops	1	20	Extension workers

E.Training Programme : Quarter wise Summary :

Sr. No.	Subject	On-Campus					Off-Campus					GT
		Quarter					Quarter					
		I	II	III	IV	Total	I	II	III	IV	Total	
1	Crop production	3	1	1	0	5	1	1	1	0	3	8
2	Soil Health and Fertility Management	1	1	1	0	3	1	1	1	0	3	6
3	Plant Protection	3	3	3	3	12	2	3	3	2	10	22
4	Fisheries	1	1	1	1	4	2	2	2	1	7	11
5	Extension Edu.	1	1	1	1	4	1	1	1	1	4	8
6	Horticulture	0	0	1	1	2	0	0	1	1	2	4
7	Home Science	1	1	1	1	4	2	2	2	1	7	11
8	Agri engineering	0	0	1	1	2	0	0	1	1	2	4
	Animal Science	0	0	0	0	0	0	0	0	0	0	0
	Total	10	8	10	8	36	9	10	12	7	38	74

2. Front Line Demonstrations (Proposed)

Sr. No.	Crop	Variety	Title	No. of Demons.	Area (ha)
FLD - Pulses					
1	Green gram	G-4	To test yield potentiality of green gram	10	4.0
2	Chick pea	GG-3	To test yield potentiality of gram	15	6.0
Oilseeds					
1	Groundnut	GG-20	IPM (Pod borer)	10	4
Other Crops					
1	Wheat	GW-366	To test yield potentiality	20	10
2	Cumin	Guj.Cumin-4	To test yield potentiality	10	4
3	Pearl millet	GHB-905	To test yield potentiality of pearl millet	20	8
4	Cotton		INM & IPM	25	10
5	Brinjal		IPM	5	2
6	Chilli		IPM	5	2
Component Demonstration					
1.	Groundnut	Trichoderma	-Reduce infestation of stem rot	5	2
2.	Groundnut	NPV	-Reduce pest attack	5	2
3.	Vermi composting	-	-	5	5
4.	Farm implement	-	-	5	5
5.	Rotavator	-	-	10	10
6.	Aeroblast sprayer	-	-	15	15
7.	Solar cooker (Box Type)	-	Popularization of alternate use of solar energy	5	5
Total				150	104

3. ON FARM TESTING (OFTs)

OFT-1

Title : Low yield of groundnut due to yellowing

Objective : To reduce problem of yellowing in groundnut

Treatments :

1. Un balanced use of fertilizer (21 N - 69 P₂O₅ - 0 K₂O). (**Farmers Practices**).
2. Recommended dose of fertilizer (25 N - 50 P₂O₅ - 0 K₂O) + FeSO₄ @ 100 g/10 lit of water along with citric acid. (**Recommended practices**).
3. Recommended dose of fertilizer (25 N - 50 P₂O₅ - 0 K₂O) + ZnSO₄ @ 20 kg/ha as a basal dose and three spray of multi mix micro nutrient @ 30 g/10 lit of water at 30, 45 and 60 days after germination. (**Refinement**).

No. of Replication :- 3 (Farmers)

Observations :-

1. Record per cent plant yellowing from each plot
2. Yield data.

OFT-2

Title : Application of *Trichoderma* against wilt disease in cumin

Objective : Application of biological control agent *Trichoderma* for managing the disease problem in cumin.

Treatments :

1. No use of trichoderma or fungicide at the time of sowing. But they use fungicides viz., carbendazim, hexaconazole, difenconazole, fosetyl-AL, tebuconazole, prothiconazole, tridemorph, etc after of initiation of diseases. (**Farmers Practices**).
2. Application of *Trichoderma* @ 2.5 kg/ha with castor cake @ 500 kg/ha at the time of sowing with the help of multi purpose seed drill. (**Recommended practices**).
3. Application of *Trichoderma* @ 2.5 kg/ha along with compost or castor cake 500 kg/ha at the time of sowing and second application with compost/ castor cake at 15 days after germination. (**Refinement**).

No. of Replication :- 3 (Farmers)

Observations :-

1. Record population at 30, 40 and 50 days after germination
2. Record per cent plant infestation within 1x1 m² quadrat from each plot
3. Record yield per hectare.

OFT-3

Title : Management of sucking pests in Okra.

Objective: To minimize the sucking pest in cotton.

Treatments :

1. Un judicious use of insecticides (Spray insecticides at weekly interval) (**Farmers practices**)
2. Use of biopesticides (*Beauveria bassiana* @ 5 g/lit of water) (**Recommended practices**)
3. Alternate spray of *Beauveria bassiana* @ 5 g/lit of water and thiacloprid 48% SC @ 0.096% at 15 days interval (**Refinement - 1**)
4. Seed treatment with thiomethoxam 30% FS @ 6 ml/kg seed followed by foliar application of *Beauveria bassiana* at 15 days interval starting from 30 days after sowing. (**Refinement - 2**)

No. of Replication :- 3 (Farmers)

Observations :-

1. Record pest population from 1x1 m² quadrat from each plot at 7 days after spray
2. Record yield at every picking.
3. Record yellow vein mosaic.

OFT-4

Title :- Comparison of solar cooker with traditional cooking system

Items:-

1. Murbba,
2. sweet potato,
3. sweet corn,
4. Salted -Roasted groundnut

Objective:-

1. To improve quality of Prepared items
2. To reduce drudgery of farm women
3. To reduce time and fuel consumption

Treatment: - Item no. 1

1. Preparation by traditional method
2. preparation by sunlight heat
3. preparation by solar cooker

Treatment: - Item no. 2-4

1. Preparation by traditional method
2. Preparation by roasting
3. Preparation by solar cooker

No. of Replications: - 4**Observations:-**

1. Time consumption
2. Fuel consumption
3. Movement
4. Cost saving
5. Organoleptic test
 - a. Colour
 - b. Texture,
 - c. Test
 - d. Consistency
 - e. Overall acceptance
6. Keeping quality

4. Extension Activities:

Sr. No.	Activities	Proposed No.
1	Kisan Mela	1
2	Field Day	12
3	Kisan Ghosthi	10
4	Radio Talk	As and when require
5	TV Show	As and when require
6	Film Show	5
8	Khedut shibir	15
9	Kisan mahila meeting	4
10	New paper Coverage	As and when require
11	Popular Articles	5
12	Extension Literature	8
13	Advisory Service	As and when require
14	Ex-Trainee Sammelan	2
15	Others- Seminar	7
17	Exhibition	2