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PROGRESS REPORT

(2010 - 2011)

&

ACTION PLAN

(2011 - 2012)

To be Presented in

6th SCIENTIFIC ADVISORY
COMMITTEE MEETING
ON
7th MARCH, 2011





PROGRAMME CO-ORDINATOR
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Annual Action Plan: 2011 - 2012

1. Training Programmes: Quarter wise Summary of Trainings

Discipline	C	n C	amp	us	Total	C	Off ca	amp	us	Total	Grand
	1	11	III	IV		1	II	III	IV		Total
Crop production	2	2	2	2	8	3	3	3	2	11	19
Horticulture	1	2	2	2	7	2	2	3	2	9	16
Plant protection	2	2	2	3	9	3	2	3	2	10	19
Ag. Eng.	1	1	2	2	6	3	2	2	3	10	16
Home Sci.	2	2	1	1	6	3	2	2	3	10	16
Fisheries	1	1.	1	2	5	3	2	3	3	11	16
All Discipline (For Ext. Func.)	1	1		-	•			-	-	•	2
Total	10	11	10	12	43	17	13	16	15	61	104

A. On Campus Training Programs
For Farmers, Farm women and Rural youth

Subject	Title of Training	No. of Days	No. of Parti.	Type of Parti.
Crop Production	ICM in groundnut	3	25	Farmers
	INM in major Kharif crops	3	25	Farmers
Horticulture	Protective cultivation (Green Houses, Shade Net etc.)	3	25	Farmers
Plan Protection	IPM in major Kharif crops IDM in major Kharif crops	3	25 25	Farmers RY
Agril. Engineering	Ground water recharge techniques	3	25	Farmers
Home Science	Preparation of bakery products	3	25	Farm Women
Fisheries	Carp breeding and hatchery management	3	25	*Fisherman
Quarter-II (Ju	uly to September-11)			
Crop	Integrated Farming system	3	25	Farmers
Production	Production of organic inputs	3	25	Farmers
Horticulture	Nursery management in vegetable crops	. 3	25	Farmers
Plant	Pest-Disease management			
Protection	in Major Kharif crops	3	25	Farmers
Agril. Engineering	Rain water Management Renewable Energy for rural	3	25	Fårmers
Home	sector .	3	25	Farmers
Science	Supplementary nutrition for child and pregnant women	3	25	Farm women
Fisheries	Carp fry, fingerling and grow out rearing	3	25	Fisherman
Quarter-III (O	ctober to December-11)		Second March	
Crop Production	Production Technology for Rabi crops	3	25	Farmers
Horticulture	Production & Management Technologies for spices	3	25	Farmers
	Off seasonal vegetables	3	25	Farmers
Plant	Aflatoxin & storage pest			
Protection	Management in groundnut	3	25	Farmers
	IPDM in major rabi crops	3	25	Farmers
Agril. Engineering	Post harvest Technology and value addition	. 3	25	Farmers
Home Science	Income generation activities for empowerment of rural Women	3	25	Farm Women
Fisheries	Sea weed aquaculture and preparation of LSF	3	25	Fisherman

Quarter-IV (J	anuary to March-12)			
Crop Production	Soil Fertility Management Vermicompost Techniques	3 3	25 25	Farmers Rural youth
Horticulture	Cultivation of fruit crops INM in fruit crops	3	25 25	Farmers Farmers
Plant Protection	Bio-control of pests and diseases IPDM in chilly	3	25 25	Farmers Farmers
Agril. Engineering	Installation and maintenance of micro irrigation systems Improved Farm Implements	3	25 25	Rural youth Farmers
Home Science	Gender mainstreaming through SHGs	3	25	Farm women
Fisheries	Mericulture practices	3	25	Fisherman

B. Off Campus Training Programs

For Farmers, Farm women and Rural youth

Subject	Title of Training	No of Training	No. of Parti.	Type of Parti.
Crop Production	Production technology (Kharif crops)	1	25	Farmers
	scope of input conservationIntegrated nutrient	1	25	Farmers
	management in kharif crops	1	25	Farmers
Horticulture	Layout and Management of Orchards	1	25	Farmers
Later to Server and the	Importance of floriculture	1	25	Farmers
Plan Protection	Seed treatment in groundnut	1	25	Farmers
	Stem/collar rot management in groundnut	2	50	Farmers
Agril. Engineering	Irrigation water management	1	25	Farmers
	Ground water recharge techniques	2	50	Farmers
Home Science	Design and development of low/minimum cost diet	1	25	RY
	 Balanced nutrition in child Value addition in Agriculture 	1	25	Farm Women
	product	1	25	RY
Fisheries	Carp culture management practices	1	25	Fisherman
	Fresh water aquaculture practices- Scampi	2	50	Fisherman

Quarter-II (July	to Sept11)			
Crop Production	Crop Diversification Wood Management in	1	25	Farmers
rroddction	Weed Management in major Kharif crops	2	50	Farmers
Horticulture	Advanced Technology for Vegetables	1	25	Farmers
	Propagation techniques of Ornamental Plants	1	25	RY
Plant Protection	Integrated pest management	1	25	Farmers
rotection	management Stem rot control by Trichoderma	.1	25	Farmers
Agril.	Improved farm implements	1	25	RY
Engineering	PHT and value addition	1	25	RY
Home Science	Drudgery reducing technologies for farm women in agriculture	1	25	' RY
	Vaccination in mothers and children	1	25	RY
Fisheries	Needs of aquaculture	1	25	Fisherman
	Integrated fish farming	1	25	Fisherman
Quarter-III (Oct	ober to December-11)			
Crop Production	Production Technology of Wheat & Gram	1	50	Farmers
	INM in major rabi crops	1	25	Farmers
	Management of Problematic soils	1	25	RY
Horticulture	Nursery Management	2	50	RY
	Rejuvenation of old orchards	1	25	Farmers
Plant Protection	IPDM in major rabi crops Aflatoxin & Storage pest	1	50	Farmers
	management in groundnut Self preparation of bio	1	25	Farmers
	pesticides	1	25	RY
Agril. Engineering	Renewable sources of energy for rural sector	1	25	Farmers
	Post Harvest Technology	1	25	RY
Home Science	Household food security by kitchen gardening and nutrition gardening	1	25	RY
	Designing and development for high nutrient efficiency diet	1	25	Farm women
Fisheries	Brackish water aquaculture management practices – Tiger shrimp	1	25	Fisherman
	Seaweed cultivation	1	25	RY
	Hatchery management and culture of freshwater prawn	1	25	Fisherman

Crop	Micronutrient management	1	25	Farmers
Production	Reclamation of problematic soil	1	25	Farmers
Horticulture	Cultivation under controlled environment	1	25	Farmers Rural
	Plant propagation techniques	1	25	Youth
Plant Protection	Natural enemies of pest Integrated pest	1	25	Rural youth
	management in vegetables	1	25	Farmers
Agril. Engineering	Improved farm implements	1	25	Rural Youth
	Biomass recycling	1	25	Farmers
	MIS-A boon for farmers	1	25	Farmers
Home Science	Preparation and preservation of pickles	1	25	Farm women
	Use of Solar Cooker	1	25	Farm women
	Rural crafts	1	25	Farm women
Fisheries	Shrimp hatchery management	1	25	Fisherman
	Fresh water aquaculture	1	25	Fisherman
	Composite fish culture	1	25	Fisherman

C. Vocational Training Programme:

Sr. No.	Title of Training	Duratio n Days	No. of Parti.	Type of Parti.	Schedule quarter
1	Small scale processing and value addition	3	25	Rural youth	111
2	Vermicomposting techniques	3	25	Rural youth	THE III
3	Self preparation of bio pesticides	3	25	Rural youth	IV
4	Plant propagation techniques	3	25	Rural youth	I
5	Preparation of bakery products	3	25	Rural youth	II
6	Preparation of handicrafts	3	25	Rural youth	
7	Preparation of LSF	3	25	Rural youth	IV

D Training Programme Extension Functionaries:

Sr. No.	Title of Training	Duration Days	No. of Parti.	Schedule quarter
1	Integrated crop management (Major crops)	3	25	
2	Integrated Farming System	3	25	

1. Front Line Demonstrations: Physical targets of FLDs

Particular of the	Season	Name of Variety/Te	Area (in ha.)/Unit	No. of Demo.	
I. Front Line Dem	onstrations				The same
(A) Oilseeds	Summer 2012	i. Sesame	Full package	4	10
	Kharif-2011- 12	ii Groundnut	INM	5 ,	10
(B) Pulses	Rabi 2012	i. Gram	GG-3	4	10
(C)Other than oilseeds &	Kharif 2011	i. Cotton Bt.	INM with full package	10	25
pulses	Rabi 2012	i. Wheat ii. Cumin iii. Coriander	GW-366 GC-4 GC-1	· 5	10 10 10
(D) Component	Kharif 2012	i. Groundnut ii. Cotton	Trichoderma Verticiliun Iecani	4	10
(E) Fisheries	-	Kappaphycus	Bamboo raft for sea weed cultivation and genotypes	25	25
(F) Home Science	-		Solar cooker	10	10
(G) Farm implements	26 48		Improved farm implements	20	4

2. On-Farm Testing.

A. On going

OFT: 1 Management of Anemia in adolescent girls Objective:

20 girls

1. Improving the hemoglobin percentage in rural adolescent girls Treatments:

- 1. Existing Dietary pattern (Control)
- 2. Iron & Folic acid tables from PHC
- 3. Dietary iron concentrate (Sprouted pulses 50g/day/person in 2 equal doses)

No. of replications:

Observations:

- 1. Body weight (kg)
- 2. Hemoglobin (%)

B. New OFTs to be proposed

OFT: 1

- 1. Title of on-farm trial: Integrated Management of sucking pest in Bt. cotton
- Problem definition: Improper management of sucking pest in Bt. cotton.Farmers are using only costly chemical pesticides in higher doses indiscriminately.

Objectives:

- 1. To reduce the indiscriminate use of chemical pesticides
- 2. To promote the use of bio pesticides
- 3. Details of technologies selected

Technology Assessed: Integrated Pest Management Treatments:

- 1. Farmer's practice Higher doses of new chemical pesticides
- Recommended practice Dimethioate 10ml/10 lit of water or Imidachloprid 7.5 ml/10 lit of water or Profenophos 16 ml/10 lit of water
- 3. Intervention Alternate spraying of recommended pesticides + Verticillium lecanii @ 30 g/10 lit of water + Neem oil (1500 ppm) @ 30 ml/10 lit of water
- 4. Observations:

Yield (Kg/ha)
Number of aphids & jassid (3 leaves per plant)
Number of thrips & mites (3 leaves per plant)
Economics (B:C ratio)

OFT: 2

- 1. Title of on-farm trial: Effect of seed treatment on wilt in chickpea
- 2. Problem definition:

Farmers are not giving seed treatment to chickpea seed before sowing particularly in Ghed area.

Objectives:

- To create awareness of seed treatment in chickpea in Ghed area
- 2. To study the efficacy of Trichoderma & vitavax for seed treatment in chickpea
- 3. Details of technologies selected

Technology Assessed: Seed treatment in chickpea

Treatments:

- 1. Farmer's practice No seed treatment
- 2. Recommended practice Seed treatment with Carbendazime @ 3g/kg seed
- 3. Intervention Seed treatment with Trichoderma @ 8 g/kg seed + vitavax (Carboxin) @ 3g/kg seed
- 4. Observations:

Yield (Kg/ha)
Disease incidence, %
Economics (B: C ratio)

OFT: 3

- 1. Title of on-farm trial: Effect of Micronutrients on groundnut yield.
- 2. Problem definition: Low yield of groundnut due to improper nutrient management Farmers are using only nitrogenous and phosphate fertilizers

Objectives:

- 1. To create awareness for use of micronutrients in groundnut
- 2. To study the effect of soil application of Micronutrient grade on groundnut
- 3. Details of technologies selected

Technology assessed: Nutrient management in groundnut Treatments:

- 1. Farmer's practice Application of only DAP & Urea in different doses
- 2. Recommended practice 12.5-25-0 NPK kg/ha
- 3. Intervention RDF through Ammonium sulphate & single super phosphate + application of Micronutrient Grade V (soil application) @ 20 kg/ha (Fe 2%, Mn 0.5%, Zn 5%, Cu 2%, B 0.5%)
- 4. Observations:

Yield (Kg/ha) Harvest Index Economics (B:C ratio)

OFT: 4

- 1. Title of on-farm trial: Effect of Bio fertilizers on wheat yield.
- 2. Problem definition: Low yield of Wheat Farmers are using only nitrogenous and phosphate fertilizers

Objectives:

- To create awareness for use of bio fertilizers
- To find out the effect of bio fertilizer
- 3. Details of technologies selected

Technology assessed: Use of Bio fertilizers

Treatments:

- 1. Farmer's practice Application of only DAP & Urea in different dose's
- 2. Recommended practice 120-60-0 NPK kg/ha
- 3. Intervention Seed treatment with Azatobacter & PSB culture (250g/10kg seed) + 75% of RDF
- 4. Observations:

Yield (Kg/ha) NPK Status in soil (Initial & After) Economics (B:C ratio)

OFT: 5

1. Title of on-farm trial: Effect of mulching in summer sesame

2. Problem Definition:

Farmers are using more irrigation water and thereby deposition of salts and over exploitation of ground water. Weed infestation is also one of the problems in summer crops.

Objectives

- To utilize water more effectively
- To reduce the weed infestation
- 3. Details of technologies selected

Technology Assessed: Mulching

Treatments:

- 1. Farmer's practice No mulch
- 2. Recommended practice Black plastic mulch (30 micron)
- 3. Intervention organic mulching (wheat straw/groundnut shell)
- 4. Observations:

Yield (Kg/ha)

Moisture Status (Before Irrigation)

Economics (B:C ratio)

OFT: 6

- 1. Title of on-farm trial: Effect of sulphur on onion production
- Problem Definition: No use of sulphur in onion Farmers are using only NPK fertilizers in onion.

Objectives

- To study the effect of sulphur on onion
- To promote the use of sulphur in onion
- 3. Details of technologies selected

Technology assessed: Nutrient management Treatments:

- 1. Farmer's practice No use of sulphur
- Recommended practice RDF + 20 kg sulphur/ha through gypsum at the time of sowing or elemental sulphur 20-25 DATP
 - 3. Intervention RDF + 20kg sulphur/ha (readily available in the market) at the time of sowing
- 4. Observations:

Yield (Kg/ha)

Bulb size

Economics (B:C ratio)

OFT: 7

- 1. Title of on-farm trial: Effect of stocking densities in fresh water aquaculture
- 2. Problem Definition: Farmers are not maintaining stocking density

Objectives

- To enhance the production of fish & prawn
- · To make fisherman aware of the importance of stocking density
- 3. Details of technologies selected

Technology assessed: Poly culture

Treatments:

- 1. Farmer's practice Not maintaining proper density and monoculturing
- 2. Recommended practice Stocking carp fingerlings @ 2500-3500 no./ha and fresh water prawn @ 15000-25000 no./ha
- 3. Intervention Stocking of carp fingerlings and fresh water prawn together at recommended rate in polyculture
- 4. Observations:

Productivity (Kg/ha) Density (Nos. per ha)

4. Other Extension Activities:

Sr. No.	Activity	Proposed Number
1.	Kisan Mela	1
2	Field day	15
3.	Kisan Gosthi	30
4	Radio / TV Talks	10
5	TV Show	5
6	Film show	E West and with the
7.	Exhibition	5
8	News Paper Coverage	12
9	Popular Article	6
10	Extension Literature (No.)	
	i) Folders / Pamphlets	6
	ii) Slides	
	iii) Video film show	5
11	Advisory Service	2
13.	Diagnostic service	
	i) Farmers visit to K.V.K	500
	ii) Scientist visit to farmers Field	400
14.	Communication media	
	i) Subscriber of krushigovidhya Magazine	200