

## **Action plan (2010-2011)**

### **ACTION PLAN (FROM APRIL – 2010 TO March – 2011)**

It is proposed to organize 96 batches of training programmes for farmers, farmwomen, rural youth and extension functionaries during period from April 2010 to March 2011.

#### **A. Training Programmes :**

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

<b>Subject</b>	<b>Title of Training</b>	<b>Dura Days</b>	<b>No.of Parti.</b>	<b>Type of Parti.</b>
<b>I. Quarter : (1st April to 30th June, 2010)</b>				
Crop Production	- Importance of soil analysis and method of soil sampling	1	25	Farmers
Plant Protection	- Use of bio-pesticides for the management of insect - pest	1	25	Farmers
Animal Science	- Importance of Artificial Insemination	1	25	Farmers
Horticulture	- High-tech production technology of major arid fruit crops	1	25	Farmers
Home Science	- Use of solar cooker	1	25	Farm women Rural Girls
	- Income generation through candle & shop making	1	25	
Agril. Engg.	- Efficient use of micro irrigation system	1	25	Farmers
<b>II. Quarter : (1st July to 30th September, 2010)</b>				
Crop Production	- Fertilizer management in <i>kharif</i> crops	1	25	Farmers
	- Irrigation management in <i>kharif</i> crops	1	25	Farmers
Plant Protection	- Identification and management of insect-pest and disease management in cotton crops	1	25	Farmers
	- Identification and management of insect-pest and disease management in Groundnut crops	1	25	Farmers
Animal Science	- Training on green fodder production round the year	1	25	Farmers
	- Care and Management of Pregnant farm Animals	1	25	Farmers
Horticulture	- Grading, sorting and packing of fruits & vegetables	1	25	Farmers
	- Improved production technology of <i>Kharif</i> vegetables	1	25	Farmers
Agril. Engg.	- Important technique of soil and moisture conservation in dry land	1	25	Farmers
Home Science	- Training for " Beti Bachavo"	1	25	Farm women Farm women
	- Use of sprouted Pulses in preparation of low cost nutritional Diet	1	25	
<b>III. Quarter : (1st Oct. to 31st Dec, 2010)</b>				
Crop Production	- Fertilizer management in <i>Rabi</i> crops	1	25	Farmers

Plant Protection	- Insect pest and disease management in rabi crops.	1	25	Farmers
	- Care should be taken for application and handling the pesticides.	1	25	Farmers
Animal Science	- Control of ecto and endo parasites in cattle	1	25	Farmers
	- Veterinary first aid & control of infectious diseases	1	25	Farmers
Horticulture	- Improved cultivation practices of onion and garlic	1	25	Farmers
Home Science	- Preparation of bakery products	1	25	Farm women
	- Vaseline and bam making	1	25	Farm women
Agril. Engg.	- Importance of drip irrigation in horticultural crops	1	25	Farmers
<b>IV. Quarter : (1st Jan. to 31st March, 2011)</b>				
Crop Production	- Effect of nutrient deficiency in important crops	1	25	Farmers
Plant Protection	- Management of insect pest and diseases in summer crops.	1	25	Farmers
Animal Science	- Management and Feeding practices of Dairy Animals	1	25	Farmers
	- Quality improvement of roughages by Urea treatment	1	25	Farmers
Horticulture	- Off season cultivation of leafy vegetables	1	25	Farmers
Home Science	- Tie and dye work	1	25	Farm women
Agril. Engg.	- Use of rotavator and cotton stalk shredder	1	25	Farmers

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

Subject	Title of Training	Dura Days	No.of parti.	Type of Parti.
<b>I. Quarter : (1st April to 30th June, 2010)</b>				
Crop Production	- Importance of organic farming	1	25	Farmers
	- Improved package of practices for Kharif crops	1	25	Farmers
Pl. Protection	- Use of biopesticides for the management of Groundnut insect – pest	1	25	Farmers
	- Identification of predators & parasites of kharif crop insect-pest	1	25	Farmers
	- Management of diseases in Kharif crops	1	25	Farmers
Horticulture	- Production of planting materials in green house	1	25	Farmers
	- Improved package of practices for chili cultivation	1	25	Farmers
Animal Science	- Care and Management of Cow and Buffalo during heat and Breeding	1	25	Farmers
	- Reduction of Inter calving period in buffalos	1	25	Farmers
Home Science	- Preparation of mango pickles and jam	1	25	Farm women
	- Drudgery reducing devices for farm women	1	25	Farm women
	- Fancy patch work and hand work stitches	1	25	Rural Girls
Agril. Engg.	- Rain water harvesting and their efficient use for crop production	1	25	Farmers
	- Selection, repair & maintenance of agricultural	1	25	Farmers

	implements.			
<b>II. Quarter : (1st July to 30th September, 2010)</b>				
Crop Production	- Production technology of cotton	1	25	Farmers
	- INM in important field crops	1	25	Farmers
Pl. Protection	- Management of pest in Kharif crops	1	25	Farmers
	- Management of diseases in Kharif crops	1	25	Farmers
	- Management of insect-pest & diseases in sesamum crop.	1	25	Farmers
Animal Science	- Control of Ecto & Endo parasite in Animals	1	25	Farmers
	- Deworming castration & dehorning in the calves	1	25	Farmers
	- Diseases management in cattle & buffaloes	1	25	Farmers
Horticulture	- Different propagation methods for fruit crops suitable for arid and semi arid region	1	25	Farmers
	- Seedling raising and transplanting of different horticultural crops	1	25	Farmers
Home Science	- Preparation of SHG	1	25	Farm Women
	- Supplementary nutrition for child and pregnant women	1	25	Farm Women
	- Preparation of decorative items from waste materials	1	25	Rural Girls
Agril. Engg.	- Dry land technology for increasing crop production	1	25	Farmers
	- Selection & use of inter culturing operational tools	1	25	Farmers
	- Efficient irrigation through micro irrigation system	1	25	Farmers
<b>III. Quarter : (1st Oct. to 31st Dec, 2010)</b>				
Crop Production	- Improved package of practices for <i>Rabi</i> crops	1	25	Farmers
Pl. Protection	- Permissible insecticides/ fungicides/ pesticides in mixture. (Ready made mixture available in market)	1	25	Farmers
	- Insect pest and disease management in cotton crop	1	25	Farmers
	- Insect pest and disease management in Fruit crop	1	25	Farmers
Horticulture	- Production technology of major <i>rabi</i> vegetable crops	1	25	Farmers
	- Importance of post harvest management of vegetables	1	25	Farmers
Animal Science	- Prophylactic and control measure of Contagious diseases	1	25	Farmers
	- Use of vitamin, minerals for enhancing conception rates in cows and buffaloes	1	25	Farmers
Home Science	- Importance of kitchen gardening	1	25	Farm Women
	- Soybean-its importance in human diet and different preparations for high nutrient efficiency diet	1	25	Farm Women

Agril. Engg.	- <i>In-situ</i> moisture conservation practices in dry farming	1	25	Farmers
	- Selection, repair and maintenance of sprayer, power sprayer and dusters	1	25	Farmers
<b>IV. Quarter : (1st Jan. to 31st March, 2011)</b>				
Crop Production	- Value addition in wheat & cumin	1	25	Farmers
Pl. Protection	- Store grain pest identification, nature of damage and their management	1	25	Farmers
	- Importance of ETL and mass media approach for IPM	1	25	Farmers
Horticulture	- Improved cultivation practices of summer vegetables	1	25	Farmers
	- Planning and layout of important arid and semi arid fruit crops	1	25	Farmers
Animal Science	- Deworming and Vaccination in Live stock	1	25	Farmers
	- Enrichment of low grade Dry fodder for cattle	1	25	Farmers
Home Science	- Vegetable pickle making (different types)	1	25	Farm Women
	- Preparation of squash, syrup from different fruit juice	1	25	Farm Women
Agril. Engg.	- Efficient utilization of irrigation water by improved irrigation techniques	1	25	Farmers
	- Introduction of effective and improved agricultural equipments	1	25	Farmers

### 3. Vocational Training :

Sr. No.	Title of Training	Dura.Days	No. of parti	Type of Parti.
1.	-Preservation of vegetables and fruits	6	30	Rural Girls

### 4. In service Training:

Sr. No.	Title of Training	Dura. Days	No. of parti.	Type of Parti.
1.	- Nutritional management of children & role of Anganwadi Workers	1	20	Anganwadi workers
2.	- IPM in Cotton and Groundnut	1	25	Extension Workers
3	- Training to AI workers for Scientific dairy management	1	25	AI workers
4	- Care and management of pregnant farm animals	1	25	Extension Workers

**5. Sponsored/ Collaborative Training with Other Organizations :**

<b>Sr. No.</b>	<b>Title of Training</b>	<b>Dura. Days</b>	<b>No. of parti.</b>	<b>Type of Parti.</b>
1.	- Vaccination in mothers and children	1	25	Farm Women
2.	- Scientific Dairy Farming	1	25	Farmers
3.	- Increased the Net Profit through Scientific Animal Husbandry adoption	1	25	Farmers
4.	- Nursery management of horticultural crops	1	25	Farmers

**A. Training Programme : Quarter wise Summary :**

<b>Sr. No.</b>	<b>Subject</b>	<b>On Campus</b>					<b>Off Campus</b>					<b>G.T.</b>
		*1	2	3	4	T	1	2	3	4	T	
1.	Crop Production/ Soil Science	1	2	1	1	5	2	2	1	1	6	<b>11</b>
2.	Horticulture	1	2	1	1	5	2	2	2	2	8	<b>13</b>
3.	Pl. Protection	1	2	2	1	6	3	3	3	2	11	<b>17</b>
4.	Animal Science	1	2	2	2	7	2	3	2	2	9	<b>16</b>
5.	Home science	2	2	2	1	7	3	3	2	2	10	<b>17</b>
6.	Agril. Engineering	1	1	1	1	4	2	3	2	2	9	<b>13</b>
	<b>Total</b>	<b>7</b>	<b>11</b>	<b>9</b>	<b>7</b>	<b>34</b>	<b>14</b>	<b>16</b>	<b>12</b>	<b>11</b>	<b>53</b>	<b>87</b>

T = Total , G.T. = Grand Total , \* 3,4 = Quarter

**A. Summary of Training programme :**

<b>Sr. No.</b>	<b>Subject</b>	<b>On campus</b>	<b>Off campus</b>	<b>Total</b>
1.	Crop Production	5	6	<b>11</b>
2.	Horticulture	5	8	<b>13</b>
3.	Plant protection	6	11	<b>17</b>
4.	Animal Science	7	9	<b>16</b>
5.	Home science	7	10	<b>17</b>
6.	Agril. Engineering	4	9	<b>13</b>
	<b>Total</b>	<b>34</b>	<b>53</b>	<b>87</b>
1.	Vocational training		1	1
2.	In service training	3	1	4
3.	Sponsored/ Collaborative Training	3	1	4
	<b>G.Total</b>	<b>40</b>	<b>56</b>	<b>96</b>

**2. Front Line Demonstrations (Proposed)**

Sr. No.	Crop	Variety	Title	No. of Demons.	Area (ha)
<b>Oilseed</b>					
1	Groundnut	GG-5	To test yield potentiality of groundnut	20	8.0
2	Sesamum	GT-2/3	To test yield potentiality of Sesamum	5	2.0
3	Groundnut ( <i>Trichoderma</i> )	GG-20	To suppress stem rot disease in groundnut	10	4.0
<b>FLD - Pulses</b>					
1	Mung	G-4	To test yield potentiality of Mung	10	4.0
2	Black gram	GU-1	To test yield potentiality of black gram	10	4.0
3	Gram	GG-2/3	To test yield potentiality of gram	10	4.0
<b>Other Crops</b>					
1	B.T. cotton	BG-II	INM & IPM in Cotton	30	12
<b>FLD Other crops</b>					
1	Wheat	GW-366/ GW-496	To test yield potentiality of wheat	12	4.8
2	Cumin	GC-4	To test yield potentiality of cumin	15	6.0
3	Seasonal vegetables	-	Kitchen gardening	5	0.5
4	Animals	Mineral mixture powder	To balance the deficiency of minerals in Animal feed	10	-
5	Cumin	GC-4	Integrated insects and disease management as per recommendation	5	2.0
6	Brinjal	-	Integrated nutrient management	5	0.5
7	Onion	-	Integrated nutrient management	5	0.5

### 3. ON FARM TESTING (OFTs)

#### OFT-1

**Title :** Low yield of cotton

**Objective :** To increase the yield by balance fertilization

**Treatments:**

- T<sub>1</sub>. Farmer's practices
- T<sub>2</sub>. Recommended dose of fertilizer (160-0-0) in four split in which second split in form of Ammonium Sulphate
- T<sub>3</sub>. T<sub>2</sub> + 50 kg P<sub>2</sub>O<sub>5</sub> ha<sup>-1</sup> through DAP + 50 kg K<sub>2</sub>O ha<sup>-1</sup> through MOP as a basal dose.
- T<sub>4</sub>. T<sub>3</sub> + 25 kg MgSO<sub>4</sub> ha<sup>-1</sup> + 10 kg ZnSO<sub>4</sub> as a basal dose.

#### OFT-2

**Title :** Reduction of Inter – Calving Period in Buffalo

**Objective :** To decrease the inter-calving period in buffalo

**Treatments :**

- 1. One group of Animals be fed with Panacure tablets + Bio-Heat tablets.
- 2. Second group of Dairy Animals be fed with Mineral Mixture.
- 3. Third group of Dairy Animals be fed with Mineral Mixture + Panacure tablets + Bio-Heat tablets.
- 4. Fourth group of Dairy Animals under control (Farmers Practice)

#### OFT-3

**Title :** Application methods of *Trichoderma* against stem rot disease in groundnut

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

**Treatments :**

- 1. Mix *Trichoderma* @ 2.5 kg /ha with 50 kg fine sand or organic manure and soil application in side the groundnut row at 30 days after sowing in moist condition (General Recommendation- Farmers Methods)
- 2. Mixing *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 Practice by JAU).
- 3. Soil drenching of *Trichoderma* @ 50 gm/10 litter of water using spray pump without nozzle. (Intervention)

#### **OFT-4**

**Title :** Management of sucking pests in cotton.

**Objective:** To minimize the sucking pest in cotton.

**Treatments :**

1. New insecticide use (Farmers practice)
2. Use of new, old and bio pesticides (Recommended practice)
3. Use of new insecticide and bio pesticides (IPM)

#### **OFT- 5**

**Title :** Low yield in groundnut due to improper tillage practice

**Objective:** Soil moisture conservation through deep plowing up to 20 cm depth

**Treatments :**

1. Shallow plowing with 7-8 inter culturing (Farmers method)
2. Deep plowing with 2-4 inter culturing (Recommended Practice)
3. Medium deep ploughing with 4-5 times inter culturing (Intervention)

#### **OFT- 6**

**Title :** Soil moisture conservation in summer groundnut cultivation

**Objective:** To conserve soil moisture by mulching

**Treatments :**

1. Control (No mulch)
2. Degradable Plastic mulch
3. Wheat straw mulch
4. Groundnut shell mulch

#### **OFT- 7**

**Title :** Management of Anemia in adolescent girls.

**Objective:** Improving the hemoglobin percentage in rural adolescent girls

**Treatments :**

1. Iron & Folic acid tables from PHC
2. Dietary iron concentrate
3. Control

**No. of replications :** 10 girls

**Observations:**

1. Body weight ( Kg)
2. Hemoglobin (%)



**4. Extension Activities :**

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

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