

# **PROGRESS REPORT**

**APRIL-2010 TO FEBRUARY-2011**

**&**

# **ACTION PLAN**

**APRIL-2011 TO MARCH-2012**

**FOR**  
**6<sup>TH</sup> SCIENTIFIC ADVISORY COMMITTEE**  
**MEETING HELD AT KRISHI VIGYAN KENDRA,**  
**AMRELI ON**  
**09-03-2011**



**KRISHI VIGYAN KENDRA**  
**JUNAGADH AGRICULTURAL**  
**UNIVERSITY, AMRELI**





# ACTION PLAN

(April- 2011 to March-2012)

## K.V.K., JAU, AMRELI

The KVK is a Innovative technological information centre for the development of farming community, by the KVK carry out various activities as per objectives and mandates. i.e organizing on campus and off campus short and long term vocational training programmes in agriculture and allied vocational for the farmers, rural youth and farm women with emphasis on " Learning by doing ". Organizing training to update the extension personal with emerging advances in agricultural research. Gaps to generate production data and feedback will be conducting OFT for identification of specific location technologies. The above activities of KVKs will be organized in details for April, 2011 to March, 2012 is as narrated as under.

### 1. Training programmes :

The training programmes on various aspects related to Agricultural technology based on thrust areas will be organized during the quarter wise April,2011 to March,2012. Details of training programmes is as under.

#### A. On campus Training Courses

Subject	Title of training	Durati- on (days)	No. of partici- pants	Type of partici- pants
<b>I Quarter April 2011 to June 2011</b>				
Crop Production	Seed production	1	25	PF
	Water Management	1	25	PF
Plant Protection	IPM & IDM in Summer Crops	1	25	PF
	IPM & IDM in Vegetable crops	1	25	PF
Home Science	Preparation of squash, syrup from different fruit juice	1	25	FW
	Drying of different vegetables and fruits	1	25	FW
	Preparation of traditional Indian embroidery	1	25	FW
Horticulture	Organic farming in Horticultural crops	1	25	PF
	Processing and packaging of mango	1	25	PF
Extension Education	Formation of SHG/FIG	1	25	PF
	New extension scheme for agril. Development	1	25	PF
Agril. Engineering	Micro Irrigation System	1	25	PF
	Drying of Onion by Solar tunnel dryer			
Live stock production & management	Feed management	1	25	PF
	Diseases.in animals and their care	1	25	PF



<b>II. Quarter July 2011 to September 2011</b>				
Crop Production	Weed Management	1	25	PF
	Integrated Crop Management	1	25	PF
Plant protection	IPM & IDM in kharif crops	1	25	PF
	Production of Bio-control Agents and bio-pesticides	1	25	PF/RV
Home Science	Detergent powder and soap making	1	25	FW
	Preparation of nutritive recipes for child	1	25	FW
Horticulture	Production technology of kharif vegetables crops	1	25	PF
	Importance of hybrids varieties in vegetables	1	25	PF
Extension Education	Mass communication for agril. Development	1	25	PF
	Formation of SHG/FIG	1	25	PF
Agril Engineering	Selection of farm implements	1	25	PF
	Energy Conservation in Agriculture	1	25	PF
<b>III. Quarter October 2011 to December 2011</b>				
Crop Production	Seed Production	1	25	PF
	Production technology of groundnut	1	25	PF
Plant protection	IPM & IDM in Kharif & Rabi crops	1	25	PF
	Bio-control of pests and diseases	1	25	PF
Home Science	Value addition in food grains	1	25	FW
	Different embroidery work	1	25	FW
Horticulture	Production technology of cumin	1	25	PF
	Production technology of ajona	1	25	PF
Extension Education	Formation of FIG/SHG	1	25	PF
	New extension media for communication	1	25	PF
Agril Engineering	Training on rotavator	1	25	PF
	Use of plastic in agriculture	1	25	PF
<b>IV. Quarter January 2012 to March 2012</b>				
Crop Production	Water management	1	25	PF
	Production of Organic inputs	1	25	PF
Plant protection	Integrated Pest Management in Summer crops	1	25	PF
	Pest management in storage	1	25	PF
Home Science	Preparation of different bakery products	1	25	FW
	Adulteration in food grains	1	25	FW
Horticulture	Organic farming	1	25	PF
	Green house technology	1	25	PF
Extension Education	Formation of FIG/SHG	1	25	PF
	New extension media for communication	1	25	PF
Agril Engineering	Use of cotton shredder	1	25	PF
	Micro irrigation	1	25	PF

**PF : Practicing farmer, PW : Practicing women**



**A. ON/OFF Campus Training Programme for Rural youth**

Subject	Title of training	Duration (days)	No. of participants	Type of participants
Crop production	Weed management in major <i>kharif</i> crops	1	25	RY
Plant Protection	Organic farming and its scope	1	25	RY
Plant Protection	Production and handling of Bio-Agent & Microbial pesticides	1	25	RY
Home Science	Tie & Dye work	1	25	RG
Horticulture	Production technology of Chilly	1	25	RY
Extension Education	Bank loans for field crops/crop insurance	1	25	RY
Agri Engineering	Water shed management	1	25	RY
<b>Total</b>		<b>5</b>	<b>125</b>	

**RY : Rural Youth****B. OFF Campus Training Programme Courses**

Subject	Title of training	Duration (days)	No. of participants	Type of participants
<b>I. Quarter April 2011 to June 2011</b>				
Crop production	Improved technology of sesame	1	25	PF
	Production technology of cotton	1	25	PF
	Production Technology of pulses, cops	1	25	PF
Plant protection	Use of pheromone trap for suppression of pest in different crops	1	25	PF
	IPM & IDM in Summer Crops	1	25	PF
	IPM & IDM in Vegetable crops	1	25	PF
	Disease due to nutritional deficiency	1	25	FW
Home Science	Adulteration in food grains	1	25	FW
	Nutritional diet for school children	1	25	FW
	Nutritional requirement for pregnant and lactating women	1	25	FW
	Child rearing practices	1	25	FW
Horticulture	Organic farming in horticultural crops	1	25	PF
	Production technology of chilly	1	25	PF
	Value addition in mango	1	25	PF
	Post harvest management of fruit crops	1	25	PF
Extension Education	Capacity building of farmers through the use of cyber extension for rural youth development	1	25	PF
	A web based soil health card application decision support system for agriculture development	1	25	PF
	Information communication technology for farmers development	1	25	PF



	activity			
	Rural women empowerment through SHG	1	25	PF
Agriculture Engineering	Drip irrigation			
	Bio gas plant	1	25	PF
	Solar dryer	1	25	PF
	Important farm implements	1	25	PF

### II. Quarter July-2011 to September- 2011

Crop production	Critical stages of irrigation in wheat	1	25	PF
	Prod. technology of summer ground nut	1	25	PF
	Production technology of summer sesame crops	1	25	PF
	Weed management	1	25	PF
Plant protection	IPM & IDM in kharif crops	1	25	PF
	Production of Bio-control Agents and bio-pesticides	1	25	PF
	Bio-control of pests and diseases	1	25	PF
	Importance of seed treatment	1	25	PF
Home Science	Nutritional security of food grains	1	25	FW
	Protein rich recipes	1	25	FW
	Diet in diseases	1	25	FW
	Value addition in food grains	1	25	FW
Horticulture	Production technology of papaya			
	Green house technology	1	25	PF
	Production technology of arid and semi arid fruit crops	1	25	PF
	Nursery raising	1	25	PF
	Production technology of banana	1	25	PF
Extension Education	Importance of training	1	25	PF
	Socio-economic change in rural women through SHG	1	25	PF
	Micro finance for sustaining SHG	1	25	PF
	Role of KVKs for agriculture development	1	25	PF
Agril Engineering	Preparation of farm pond	1	25	PF
	Processing of Mango	1	25	PF
	Green house technology	1	25	PF
	Sprinkler irrigation	1	25	PF
Livestock production & management	Dairy management	1	25	PF

### III. Quarter October- 2011 to December- 2011

Crop production	Production tech. of cotton	1	25	PF
	Production tech. of groundnut	1	25	PF
	Use of pheromone trap	1	25	PF
	Pest and diseases of groundnut and their control measure	1	25	PF
Plant	IPM & IDM in Kharif & Rabi crops	1	25	PF



Protection	Bio-control of pests and diseases	1	25	PF
	use of Pheromone trap	1	25	PF
Home Science	Nutritional security of food grains	1	25	FW
	Importance of kitchen gardening	1	25	FW
	Awareness about vaccination in children	1	25	FW
	Nutritional requirement for pregnant & lactating women	1	25	FW
Horticulture	Production technology of cumin	1	25	PF
	Planning for rabi vegetable crops	1	25	PF
	Value addition in fruit crops	1	25	PF
	Plant protection in mango	1	25	PF
Extension Education	New extension technology method media	1	25	PF
	Use of internet	1	25	PF
	Formation of FIG/SHG	1	25	PF
	New rural agro industry for youth	1	25	PF
Agril Engine.	Use of Rotavator	1	25	PF
	Use of cotton shredder	1	25	PF
	Use of plastic in agriculture	1	25	PF
	Use of microirrigation	1	25	PF
<b>IV. Quarter January- 2012 to March -2012</b>				
Crop production	Production tech. of wheat	1	25	PF
	Production tech. of gram	1	25	PF
Plant protection	Integrated Pest Management in Summer crops	1	25	PF
	Pest management in storage	1	25	PF
Home Science	Safe storage of food grains	1	25	FW
	Work simplification for women in house hold activities	1	25	FW
	Different methods of cooking	1	25	FW
	Diet in diseases	1	25	FW
Horticulture	Vermicomposting	1	25	PF
	Production technology of summer vegetable crops	1	25	PF
	Green house technology	1	25	PF
	Mulching in Horticultural crops	1	25	PF
Extension Education	Formation of SHG	1	25	PF
	Capacity building of people through cyber extension	1	25	PF
	Types of training and their use	1	25	PF
	Crop insurance	1	25	PF
Agril. Engg	Use of cotton shredder	1	25	PF
	Use of plastic in agriculture	1	25	PF
	Micro irrigation	1	25	PF
	Use of rotawator	1	25	PF



**C. Training Programme (Quarter wise summary):**

Sr. No	Subject	On campus					Off campus					G.T
		I	II	III	IV	T	I	II	III	IV	T	
1	Crop production	2	2	2	2	8	3	4	4	2	13	21
2	Plant Protection	2	2	2	2	8	4	4	3	2	13	21
3	Home Science	3	2	2	2	9	4	4	4	4	16	25
4	Horticulture	2	2	2	2	8	4	4	4	4	16	24
5	Extension Education	2	2	2	2	8	4	4	4	4	16	24
6	Agril. Engg.	2	2	2	2	8	4	4	4	4	16	24
7	Live stock production	2	-	-	-	2	-	1	-	-	1	3
<b>Total</b>		<b>15</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>51</b>	<b>23</b>	<b>25</b>	<b>23</b>	<b>20</b>	<b>91</b>	<b>142</b>

**D. Vocational Training:**

Sr. No	Title of training	Duration (days)	No of Partici.	Type of Participant
1	Preservation of fruit and vegetables	5	25	Rural girls
2	Production of bio-control agents and bio-pesticides	3	25	Rural Youth
3	Solar drying of food production and packaging	3	25	Rural Youth

**E. In Service Training:**

Sr. No	Title of training	Duration (days)	No of Parti.	Type of Participant
1	Pre-seasonal Training on <i>Kharif</i> crops	2	25	Ext. workers
2	Pre-seasonal Training on <i>rabi</i> crops	2	25	Ext. workers
3.	Child care and their development	2	25	Ext. workers (Anganwadi)

**F. Sponsored Training:**

Sr. No	Title of training	Duration (days)	No of Parti.	Type of participant
1	Safe use of pesticides	1	25	Agro dealer
2	Balance use of fertilizers	1	25	Farmers
3	Production technology and seed production of onion	1	25	Farmers
4	Importance of training	1	25	Farmers
5	Preservation of fruit and vegetables	1	25	FW/RG
<b>Total</b>		<b>5</b>	<b>125</b>	

The 5 training courses will be organizing with the 125 participant's by the collaboration with the different agency like NGO and Agro dealer in different subjects.



**G. Summary of Training Programmes:**

Sr. No	Subject	On campus	Off Campus	Total
1	Crop Production	8	13	21
2	Plant Protection	8	13	21
3	Home Science	9	16	25
4	Horticulture	8	16	24
5	Livestock production & Management	2	1	3
6	Extension Education	8	16	24
7	Agril. Engineering	8	16	24
8	Vocational training	3	2	5
9	In service Training	3	0	3
10	Sponsored Training	2	3	5
<b>Total</b>		<b>59</b>	<b>96</b>	<b>155</b>

During the year 2011-12, 59 on campus and 96 off campus training programmes in different subjects for the Farming community by the KVK, Amreli.

**H. Extension activity:**

Sr.No	Activity	Proposed No.
1	Field day	8
2	Kisan Gosthi	12
3	Radio talk	As & when required
4	TV show	As & when required
5	Film show	2
6	Exhibition	1
7	Khedut shibir	15
8	News paper coverage	As & when required
9	Diagnostic service	As & when required
10	Advisory service	As & when required
11	Popular articles	5
12	Extension Literature	5
13	Seminar	1
14	Mahila Mandal	2
15	Celebration of Important day	1



**I Front Line Demonstration (Proposed)**

Sr No	Crop/Input	Variety	Title	No of Demons.	Area (ha)
<b>Rabi 2011-12</b>					
1	Wheat	GW-366	Yield potentiality	25	10
2	Cumin	GC-4	Yield potentiality	10	4
3	Gram	GG-3	Yield potentiality	10	4
<b>Total</b>				<b>45</b>	<b>18</b>
<b>Summer 2012</b>					
1	Pearl millet	GHB 558/744	Yield potentiality	10	4
2	Sesame	GT-2/3	Yield potentiality	10	4
<b>Total</b>				<b>20</b>	<b>8</b>
<b>Kharif-2012</b>					
1	Groundnut	GG-20	Yield potentiality	10	5
2	Soyabean	Guj. soya- 1/2	Yield potentiality	10	5
3	Cotton	Bt variety	Yield potentiality	10	5
4	Trichoderama	GG-20	control of stem rot	10	5
<b>Total</b>				<b>40</b>	<b>20</b>
<b>G.T</b>				<b>105</b>	<b>44</b>

During the year 2011-12, it will be organized 105 FLD in 44 hectare in different crops for the Farming community by the KVK, Amreli.

**J ON FARM TESTING****OFT-1- Plant protection:**

**Title :** Method of application of *Trichoderma* against stem rot disease in groundnut

Farmers using fungicides as seed treatment to protect against disease spreads through seed or soil ultimately they expect higher yield of the groundnut crop

**Problem defines:**

- Low plant population
- Disease problem
- Lack of knowledge for use of recommended control measure

**Title of technology assessed /refined:** biological control of *Sclerotium rolfsii* in groundnut

**Thematic area:** application method of biological agent *Trichoderma* for managing the disease problem in groundnut

**Details of technology assessed/refined:**

- I. Mix *trichoderma* @ 2.5 kg/ha with 50 kg fine sand and soil application in side of g'nut row 30 days after sowing in moist condition (General recommendation farmers' method)
- II. 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)



- III. Soil drenching of *Trichoderma* @ 50gm/10 liter of water using spray pump without nozzle (Intervention)

### **OFT : 2 – Home Science :**

**Title :** Feeding of protein and energy rich diet to children to cure protein energy malnutrition in rural area (Age-group- 1 to 3 years)

**Location:** Amreli district

#### **Background information:**

A healthy survey was conducted in the amreli district; most of children in the village were found underweight and nutrition deficient. So it is recommended to take protein, energy rich diet to solve the nutrition.

#### **Objective :**

To cure malnutrition in rural of age group 1-3 years

#### **Reason for protein energy deficiency:**

1. Lack of knowledge
2. Poor economic condition
3. Lack of nutritional management

#### **Treatment:**

1. Use of recipes prepared from mixture of cereals (30 gm) +sprouted plants (10 gm)+ ghee/oil (5 gm) for first group of children (age group 1-3 years)
2. Use of recipes prepared from mixture of cereals (30 gm)+ pulse (10 gm)+ghee/oil (5 gm) for second group of children (age group )
3. Fourth group of children (control)

#### **Methodology :**

Four children of almost same group of 1 to 3 years from each group will be selected villages.

1. A group of three children will be fed with mixture of cereals, sprouted pulses and fat mixture.
2. Second group of children will be fed with mixture of cereals, pulses and fat.
3. Fourth group of children would be under control.

### **OFT : 3 – Agril. Engineering:**

**Problems definition:** low productivity in groundnut due to in improper tillage  
**Technology Assessed:** in situ soil moisture conservation practices for rainfed groundnut.

#### **Treatment:**

1. Shallow tillage with 7-8 inter culturing
2. Deep tillage with 2-4 inter culturing
3. Medium tillage with 4-5 inter culturing

### **OFT : 4 – Horticulture:**

**Problems definition:** farmers use higher seed rate for sowing in cumin so not maintain proper germination.

#### **Treatment:**

1. **Famers practices :** 25 kg/ha
2. **Recommendation :** 12-15 kg/ha
3. **Intervention:** 20 kg/ha with gypsum @1 ton/ha

### **Case study: Extension Education**

**Title :** impact of Front line demonstration and training