Annual Action Plan : 2013 – 2014 KVK-Khapat, Porbandar

1. Training Programmes: Quarter wise Summary of Trainings

Discipline	0	n C	amı	ous	Total	Of	ff ca	ımp	us	Total	Grand Total
	I	II	Ш	IV		I	II	Ш	IV		
Crop production	1	1	2	1	5	3	1	2	2	8	13
Horticulture	1	2	1	1	5	2	2	2	2	8	13
Plant protection	1	1	1	2	5	2	2	2	2	8	13
Ag. Eng.	2	1	2	1	6	2	2	2	2	8	14
Home Sci.	1	2	2	1	6	3	2	2	3	10	16
Fisheries	1	1	1	2	5	2	2	3	3	10	15
Animal Husbandry	-	•	1	-	1	1	-	1	-	2	3
All Disciplines (For Ext. Func.)	1	-	1	-	2	-	-	-	-	-	2
Total	8	8	11	8	35	15	11	14	14	54	89

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

For Farmers, Farm women and Rural youth Quarter-I (April to June-13)				
Subject	Title of Training	No. of Days	No. of Parti.	Type of Parti.
Crop Production	 Production Technologies major kharif crops 	3	25	Farmers
Horticulture	Protected cultivation (Green Houses, Shade Net etc.)	3	25	Farmers
Plan Protection	 Biological controls of pest and disease 	3	25	Farmers
Agril. Engineering	 Water harvesting & ground water recharge techniques 	3	25	Farmers
Home Science	Value addition in mango	3	25	Farm Women
Fisheries	 Carp breeding, hatchery management and grow out rearing. 	3	25	Fisherman
Quarter-II (Ju	lly to September-13)			
Crop Production	Integrated Nutrient management	3	25	Farmers
Horticulture	 Nursery management for vegetable crops 	3	25	Farmers
Plant Protection	IPDM in major Kharif crops	3	25	Farmers
Agril. Engineering	Micro irrigation system; use and maintenance	3	25	Farmers
Home Science	 Preparation of bakery products 	3	25	Farm women
Fisheries	Hatchery management & Cultivation of fresh water Prawn	3	25	Fisherman
Quarter-III (Od	ctober to December-13)		I	1
Crop Production	Advances in production technology of Rabi crops	3	25	Farmers
Horticulture	Cultivation of spices and vegetables	3	25	Farmers
Plant Protection	Identification of pest and diseases and its control	3	25	Farmers
Agril. Engineering	Post harvest Technology and value addition	3	25	Farmers
Home Science	Income generation by culinary preparations from groundnut	3	25	Farm women
Fisheries	 Fisheries Status, Conservation and Orientation towards Aquaculture Practices 	3	25	Fisherman

Animal Husbandry	Hygienic milk production	1	25	Farmers
Quarter-IV (Ja	nuary to March-14)			
Crop Production	 Composting techniques and residue recycling. 	3	25	Farmers
Horticulture	 Promising technologies for fruit & vegetable crops 	3	25	Farmers
Plant Protection	IPDM in crops under protected cultivation	3	25	Farmers
Agril. Engineering	 Improved implements and machinery in agriculture. 	3	25	Rural youth
Home Science	Income generation activities for empowerment of rural Women	3	25	Farm women
Fisheries	Sea Weed Cultivation & Preparation of LSF	3	25	Fisherman

B. Off Campus Training Programs

For Farmers, Farm women and Rural youth

Quarter-I (April	Quarter-I (April to June-13)					
Subject	Title of Training	No of Training	No. of Parti.	Type of Parti.		
Crop Production	Advances in groundnut production technology	1	25	Farmers		
	Integrated Nutrient Management in kharif crops	1	25	Farmers		
	Crop Diversification	1	25	Farmers		
Horticulture	Layout and Management of mango orchards	1	25	Farmers		
	 Cultivation of flower crops 	1	25	Farmers		
Plan Protection	Stem/collar rot management in groundnut	1	25	Farmers		
	Seed treatment in major kharif crops	1	25	Farmers		
Agril. Engineering	Renewable energy sources for agriculture	1	25	Farmers		
	Ground water recharge techniques	1	25	Farmers		
Home Science	Nutritional requirements for pregnant and lactating women	1	25	FW		
	Preparation of traditional Indian embroidery & Fancy	1	25	RY		
	patch work • Value addition in Agriculture product	1	25	FW		

Fisheries	Shrimp farming	1	25	Fisherman
1 101101100	Culture of fresh water	1	25	Fisherman
	prawn- Scampi	•		
Animal	Balanced nutrition and	1	25	Farmers
Husbandry	animal health care	-		
Quarter-II (July		1		
Crop	Castor Production	1	25	Farmers
Production	Technology			
Horticulture	Cultivation of fruit crops	1	25	Farmers
	INM in crops under	1	25	RY
	protected cultivation			
Plant	 Integrated pest & disease 	2	50	Farmers
Protection	management in kharif crops			
Agril.	Farm mechanization	1	25	Farmers
Engineering	Micro irrigation system; use	1	25	Farmers
	and maintenance	•		
Home Science	Drudgery reducing	1	25	FW
	technologies for farm			
	women in agriculture			
	Nutritional recipes for child	1	25	FW
Fisheries	Ornamental Fish Culture	1	25	Fisherman
	Fresh Water Fish Culture			
		1	25	Fisherman
Quarter-III (Oct	ober to December-13)			
Crop	Promising production	1	25	Farmers
Production	technologies of wheat &			
	gram			
	INM in major rabi crops	1	25	Farmers
Horticulture	Cultivation of onion & garlic	1	25	RY
	Production technologies for	1	25	Farmers
	cumin & coriander			
Plant	IPDM in major rabi crops	1	25	Farmers
Protection	Aflatoxin & Storage pest	1	25	Farmers
	management in groundnut		_	_
Agril.	Use of plastic in Agriculture	1	25	Farmers
Engineering	Post Harvest Technology	1	25	RY
Home Science	Preparation of jam, squash,	1	25	FW
	catch up from fruit and			
	preservation of vegetable	4	25	DV
Figh or in a	Value addition in aonla	1	25	RY
Fisheries	Shrimp farming-tiger shrimp	1 1	25 25	Fisherman RY
	Seaweed cultivation Comp Culture	1	25 25	Fisherman
Animal	Cage Culture Dalamand putrition in mileb	1		
Husbandry	Balanced nutrition in milch animals	ļ	25	Farmers
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Quarter-IV (Jan	Quarter-IV (January to March-14)					
Crop Production	Improved package of practices for summer sesame	1	25	Farmers		
	Soil sampling techniques and importance of soil analysis	1	25	Farmers		
Horticulture	 Scope of net house for of seasonal cultivation. 	1	25	Farmers Rural		
	 Plant propagation techniques 	1	25	Youth		
Plant Protection	Natural enemies of pestIntegrated pest	1	25	Rural youth		
	management in chilly	1	25	Farmers		
Agril. Engineering	 Fertigation technique- for maximizing fertilizer use efficiency. 	1	25	Rural Youth		
	Biomass recycling or its industrial use	1	25	Farmers		
Home Science	 Consumer awareness 	1	25	FW		
	 Solar Cooker : Uses & Advantages 	1	25	FW		
	Nutritional Education	1	25	FW		
Fisheries	Shrimp Farming	1	25	Fisherman		
	 Fish processing & value addition 	1	25	Fisherman		
	Preparation of LSF	1	25	RY		

C. Vocational Training Programme:

Sr. No.	Title of Training	Duration Days	No. of Parti.	Type of Parti.	Schedule quarter
1	Small scale processing and value addition	3	25	Rural youth	III
2	Production of organic inputs	3	25	Rural youth	III
3	Self preparation of bio products	3	25	Rural youth	IV
4	Nursery raising business	3	25	Rural youth	II
5	Rice/ urad papad, khakhra and vadi making	3	25	Rural youth	II
6	Cutting, tailoring, embroidery and handicraft	3	25	Rural youth	III
7	Sea weed Culture and Preparation of LSF	3	25	Rural youth	IV
8	Installation and maintenance of MISs	3	25	Rural youth	I

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	1
2	Recent advances in agriculture and animal husbandry.	3	25	III

1. Front Line Demonstrations:

Physical targets of FLDs (Proposed)

Name of the crop/enterprise	Season	Technology to be demonstrated	Variety	Area (ha.)/No. of units	No. of Demo.
Oilseeds		I	•		
Groundnut	Kharif- 2013	INM	-	10	20
Sesame	Summer 2014	Improved Variety	GT-3	4	10
Pulses					
Gram	Rabi 2013-14	Improved Variety	GG-3	8	20
Green gram	Summer 2014	Imp. Variety & Bio fertilizer	GM-4	4	10
Cereals					
Wheat	Rabi 2013-14	INM	GW- 366/496	10	20
Seed spices		L			
Cumin	Rabi 2013-14	IDM	GC-4	8	20
Coriander	Rabi 2013-14	Improved Variety	GC-2	4	10
Commercial crops	6				
Cotton	Kharif 2012	INM with full package	Bt. Variety	10	25
Fodder Crop					
Lucern	Rabi 13- 14	Improved variety	Anand-2	4	10
Bio-agents					
Groundnut	Kharif 13	Trichoderma	GG-20	4	10
Other Enterprise	1		I		
Fisheries	-	Seaweed cultivation using Bamboo Raft	Seaweed Spp.	10	10
Soil water conservation	-	Cumin	Broad Bed Furrow	4	8
Farm implements	-	-	Shredder	10	2
Home Science	-	-	Solar cooker	5	5

2. On-Farm Testing.

A. On Going

OFT: 1 Integrated Management of sucking pest in Bt. cotton

Treatments:

- 1. Farmer's practice Higher doses of new chemical pesticides
- 2. **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

OFT: 2 Effect of seed treatment on wilt in chickpea

Treatments:

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

OFT: 3 Effect of Bio fertilizers on wheat yield.

Treatments:

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

OFT: 4 Effect of mulching in summer sesame

Treatments:

- Farmer's practice No mulch
 Technology to be assessed
- 2. Black plastic mulch (30 micron)
- 3. organic mulching (wheat straw/groundnut shell)

OFT: 5 Effect of sulphur on onion production

Treatments:

- 1. Farmer's practice No use of sulphur
- 2. **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

B. **New OFT:**

OFT: 1

Title: - Comparison of solar Cooker with traditional cooking system

Items:-

- 1. Mango Murbba
- 2. Boiled Sweet potato
- 3. Boiled Masala Sweet corn
- 4. Salted groundnut
- 5. Sesame Mukhvas

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: - 5 **Observations:-**

- (1) Time consumption
- (2) Fuel consumption
- (3) Movement
- (4) Cost saving
- (5) Organo laptic test
 - a. Sweetness
 - b. Texture
 - c. Consistency
 - d. Overall acceptance

4. Other Extension Activities:

Sr.	Activity	Proposed Number
No.		
1.	Kisan Mela	1
2	Field day	15
3.	Kisan Gosthi	30
4	Radio / TV Talks	As & when required
5	TV Show	As & when required
6	Film show	25
7.	Exhibition	5
8	News Paper Coverage	12
9	Popular Article	6
10	Extension Literature (No.)	
	i) Folders / Pamphlets	6
	ii) Slides	As & when required
	iii) Video film show	As & when required
11	Advisory Service	As & when required
12.	Diagnostic service:	
	i) Farmers visit to K.V.K.	As & when required
	ii) Scientist visit to farmers Field	As & when required
13.	Communication media	
	i) Subscriber of <i>Krushi govidhya</i> Magazine	100
14	Special Programmes	
	Technology week	1
	Parthenium awareness week	1
	Celebration of special days	5
	Night meeting/Farmers' meeting	10
	Micronutrient awareness campaign	3
	Soil Sample analysis	100