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ACTION PLAN

(April-2017 to March-2018)

OF

KRISHI VIGYAN KENDRA
JUNAGADH AGRICULTURAL UNIVERSITY
TARGHADIA (RAJKOT)

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TARGHADIA (Rajkot) – 360 003

Action plan (April – 2017 to March– 2018)

It is proposed to organize the following batches of training programmes for farmers, farm women, rural youth and extension functionaries during April 2017 to March 2018

A. Training Programmes :

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

Subject	*Title of Training*	*Duration Days*	*No.of Parti.*	*Type of Parti.*	*Month*
1	*2*	*3*	*4*	*5*	
Crop Production	- Importance of organic farming in cotton	4	25	Farmers & Farm Women	April
	-Improved cultivation practices for wheat & Gram	4	25	Farmers & Farm Women	November
Plant Protection	- Integrated insect pests & disease management in cotton	4	25	Farmers & Farm Women	May
	– Integrated insect pests & disease management in cumin.	4	25	Farmers & Farm Women	October
Animal Science	– Care and management of livestock during summer	4	25	Farmers & Farm Women	May
	– Importance and use of green fodder in milk production	4	25	Farmers & Farm Women	August
	– Foot & Mouth disease and its control	4	25	Farmers & Farm Women	November
Agril. Engg.	– Selection, maintenance and use of improved farm implements and machinery	4	25	Farmers & Farm Women	June
	– Operation and maintenance of micro irrigation system	4	25	Farmers & Farm Women	November
Home Science	– Value addition in Groundnut	4	25	Farm Women	May
	– Drudgery reducing devices for farm women in house hold and Agri. activities	4	25	Farm Women	October
	Total	**11**			

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

Subject	*Title of Training*	*Duration Days*	*No.of parti.*	*Type of Parti.*	*Month*
1	*2*	*3*	*4*	*5*	
Crop Production	– Crop Production technology in kharif pulses	3	25	Farmers	May
	– Importance & use of bio fertilizers in gram	3	25	Farmers	October
Plant Protection	– Management of pinkboll worm in cotton	3	25	Farmers	April
	– pest & disease management in groundnut	3	25	Farmers	June
	– Store grain pest management	3	25	Farmers	January
Animal Science	– Hemorrhagic Septicemia and its control	3	25	Farmers	June
	– Awareness about control of Mastitis in animal by audio visual aid	3	25	Farmers	August
	– Clean milk production by proper milking, watering & washing	3	25	Farmers	October
	– Zoonotic disease & its preventive measure	3	25	Farmers	February
Agril. Engg.	– Rain water harvesting and their efficient use in crop production	3	25	Farmers	May
	– Post harvest technology of different field crops	3	25	Farmers	July
	– Use of small tools and implements for drudgery reduction in agriculture	3	25	Farmers	September

Home Science	– Household food security by kitchen gardening	3	25	Farm women	may
	– Income generation activities for empowerment of rural Women	3	25	Farm women	August
	– Nutritional diet for children & adolescent girl	3	25	Farm women	December
	Total	**15**			

3. Vocational Training:

Sr. No.	*Title of Training*	*Dura.Days*	*No. of parti*	*Type of Parti.*
1.	– Hand stitches and handicraft	21	25	Rural Girls

4. Extension Functionaries Training:

Sr. No.	*Title of Training*	*Dura. Days*	*No. of parti.*	*Type of Parti.*
1.	– Pre-seasonal training on package of practice of Kharif crops	1	25	Ext Workers
2.	– Pre-seasonal training on Rabi crops	1	25	Ext Workers
3.	– Preventive measure and first aid treatment of important disease in dairy animals	1	25	Ext Workers (OFF)
4.	– Integrated pests management in *Kharif* crops	1	25	Extension Functionaries of Agriculture Department

5. Sponsored/ Collaborative Training with Other Organizations:

Sr. No.	*Title of Training*	*Dura. Days*	*No. of parti.*	*Type of Parti.*	*Sponsoring Agency*
1.	– Scientific Dairy management	1	25	Farmers	ATMA-Rajkot
2.	– Nutritional management in Mother and Child	1	25	Farmers	PHC
3.	– Intigrated pest management in vegetable crops	1	25	Farmers	ATMA-Rajkot
4.	- Irrigation management in Rabi crop.	1	25	Farmers	FTC-Rajkot
5.	- INM in *Bt.* Cotton	2	25	Ext. workers	Cotton connect
6.	- IPM & IDM in *Bt.* Cotton	2	25	Ext. workers	Cotton connect
7.	- Training programme for A.I. Workers	1	25	A.I. Workers	Gopal Dairy

Training Programme : Quarter wise Summary :

Sr. No.	*Subject*	*On campus*	*Off Campus*	*G.T.*
1.	Crop production	2	2	**4**
2.	Pl. Protection	2	3	**5**
3.	Animal Science	3	4	**7**
4.	Agril. Engineering	2	3	**5**
5	Home science	2	3	**5**
	Total	**11**	**15**	**26**
1.	In service training	4	-	4
2.	Sponsored Training	6	1	7
3.	Vocation training	-	1	1
	Grand Total	**21**	**17**	**38**

B. Front Line Demonstrations (Proposed)

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers / demon.	Parameters identified	
1	Groundnut	GJG-22	NRM	Variety (GJG-22)	Seed of GJG-22 (20 Kg/Farmer)	Kharif-2017	4.0	10	No. of pods/Plants Yield, B:C ratio, Farmers perception	
2	Groundnut	GJG-9	NRM	Variety (GJG-9)	Seed of GJG-9 (20 Kg/Farmer)	Kharif-2017	2.0	5	No. of pods/Plants Yield, B:C ratio, Farmers perception	
3	Groundnut	GG-20	ICM	IPM	Chlorpyriphos 25EC 1 Lit./Farmer	Kharif-2017	4.0	10	No. of damaged plants, Yield, B:C ratio, Farmers perception	
4	Chickpea	GJG-5/ GJG-3	NRM	Variety (GJG-5)	Seed of GJG-5 (20 Kg/Farmer)	Rabi-2017-18	4.0	10	No. of pods/Plants Yield, B:C ratio, Farmers perception	
5	Wheat	GW-366/ GW-463	ICM	INM	Znso4, Azatobactor and PSB	Rabi-2017-18	2.0	5	Length of /Plants Yield, B:C ratio, Farmers perception	
6	Cotton	Bt. Cotton	ICM	IPM	Pheromonetrap 15/acer	Kharif-2017	4.0	10	No. of pink boll worm, Yield, B:C ratio, Farmers perception	
7	Cumin	GC-4	ICM	IPM	Seed of GC-4 (6 Kg/Farmer) and Trichoderma 2Kg/Farmer	Rabi-2017-18	4.0	10	No. of infected plants, Yield, B:C ratio, Farmers perception	
8	Seasonal vegetables	-	Kitchen gardening	Health management	Seed of different Veg.	Kharif-2017	0.5	5	Nutritional value, farm women perception	
9	Cow	Chelated Min. mixture	LPM	-	Chelated Min. mixture powder 1Kg/Farmer	-	-	20	Milk production, B:C ratio, Farmers perception	
10	Buffalo	By pass protein	LPM	-	50 Kg/ Farmer	-	-	10	Milk production, B:C ratio, Farmers perception	
11	Fodder	Makhan grass	ICM	-	1Kg Seed of Makhan grass/Farmer	Rabi-2017-18	1.0	5	Plan high, Yield,B:C ratio, Farmers perception	
					Total		**25.5**	**100**		

C. ON FARM TESTING (OFTs)

OFT-1

Chelated & Area Specific Mineral mixture for Milch buffaloes		
Problem	:	Low milk yield and Irregularity in heat
Causes	:	Nutrition Deficiency
Objective	:	Enhancement of milk production with improve reproductive efficiency
Thematic area	:	Nutrition Management
Source of technology	:	NDRI, kernal, Hariyana
Treatments	:	1. Farmers practices (Control) 2. Buffalo fed with 50 gms/day Chelated Area specific mineral mixture supplementation (Reco.)
Number of replications	:	3 Farmers
Experimental plot size	:	*3 Animals*
Observation	:	1. Milk yield 2. Postpartum estrus 3. No. of insemination for conception

OFT- 2

Water management in Cotton		
Problem	:	Water scarcity in the region due to less rainfall.
Causes	:	• Inefficient use of irrigation water by traditional method • Low & uncertainty of cotton productivity due to high evaporation rate more soil moisture losses during the crop period.
Objective	:	1)To minimize the irrigation water through mulching. 2) Efficient use of water through drip irrigation
Thematic area	:	Water management
Source of technology	:	JAU, Junagadh
Treatments	:	No use mulching materials (Farmers' practice)
	:	Plastic mulch (50 micron) under drip irrigation system (Recommended Technology)
Number of replications	:	3 (Farmers)
Experimental plot size	:	1 Acre
Observation	:	Yield, B:C ratio, Soil moisture content, farmer's reflection

OFT- 3

Management of White grub in Groundnut.		
Problem	:	Heavy white grub incidence in groundnut.
Causes	:	•Injudicious use of pesticides. •Higher use of non recommended insecticides in groundnut. •Lack of snowlede regarding life cycle of white grub seed

		treatment. • More frequency of insecticide spray as compare to recommendation.
Objective	:	To minimize the infestation of white grub in Groundnut.
Thematic area	:	IPM
Source of technology	:	GAU, Junagadh
Treatments	:	Sowing of groundnut without Seed treatment. Farmers adopt drenching of Chlorpyriphos or quinalphos @ 6 lit/ha with irrigation at initiation of pest incidence. (Farmers practice)
	:	Seed treatment with chlorpyriphos or quinalphos @ 25 ml/kg seed.(GAU Reco.)
Number of replications	:	3 (Farmers)
Experimental plot size	:	1 Acre
Observation	:	Yield of pod ,No of infested plants, B:C ratio and farmer's reflection

OFT- 4

High Density plantation in cotton		
Problem	:	long duration and sowing with wider spacing cotton crop
Causes	:	• Less no. of plants per hectare • Growing with wider spacing • Lack of knowledge about improved package of practices
Objective	:	To increase yield
Thematic area	:	ICM
Source of technology	:	GAU, Junagadh
Treatments	:	Farmer practices: (150 to 180 cm x 30 to 60 cm)
	:	Recommended practices (120 cm x 45 cm).
Number of replications	:	3 (Farmers)
Experimental plot size	:	1 Acre
Observation	:	Number of primary & secondary branches, No. of boll per plant, Plant height and yield per hectare, farmer's reflection

OFT- 5

Drudgery reduction of farm women		
Problem	:	Physiological and muscular stresses in farmwoman during milking.
Causes	:	• Lack of awareness about drudgery reducing low cost technologies for minimize the stresses • Health problem in farmwomen • Lack of knowledge & availability about use of revolving milking stool
Objective	:	To minimization of physiological & muscular stress and drudgery of farm women
Thematic area	:	ICM
Source of technology	:	GBPUAT, Pantnagar (UK)
Treatments	:	No use of stool while milking
	:	Revolving milking stool (height of 12-13 cm with diameter 34 cm)
Number of replications	:	3 (Farm women)
Observation	:	Level of drudgery, Physical stress, Work output and Field acceptability, farm women's reflection

OFT- 6

Nutrient management in Bt cotton		
Problem	:	Low production of cotton
Causes	:	• In judicious nitrogenous Fertilizers • Less use of organic manure • Lack of knowledge about balance fertilization.
Objective	:	To increased the cotton yield through soil fertility.
Thematic area	:	Balance fertilization
Source of technology	:	JAU, Junagadh
Treatments	:	Farmer practices (only about 160Kg N / ha)
	:	Application of 10 t FYM/ha + 240-50-150 kg NPK/ha (N in four splits, 25% at sowing and remaining three equal splits at 30, 60 and 90 DAS) and @ 50 kg P2O5 and 150 K/ha as basal with Micronutrient grade – 4@1% at 45-60-70 and 90 DAS
Number of replications	:	3 (Farmers)
Experimental plot size	:	1 Acre
Observation	:	Plant height, No of bolls per plant , B:C ratio and farmer's reflection

D. Extension Activities:

Sr. No.	Activity	Proposed No.
1	Kisan Mela	1
2	Field Day	8
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	4
8	Improved implements demonstration	5
9	Khedut shibir	10
10	Kisan mahila meeting	2
11	News paper Coverage	As and when require
12	Popular Articles	12
13	Extension Literature	6
14	Advisory Service	As and when require
15	Ex-Trainee Sammelan	1
16	Seminar	1
17	Pashu Mela	1
18	Exhibition	1
19	Night meeting	2