ACTION PLAN

(April-2018 to March-2019)

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 all crops	4	25	Farmers & Farm Women	April
	➢ Reduction of cost of cultivation techniques in different crops.				
	- Improved cultivation practices for wheat & Gram	4	25	Farmers & FW	November
Plant Protection	- Integrated insect pests & disease management in cotton	4	25	Farmers & FW	May
	- Integrated insect pests & disease management in cumin.	4	25	Farmers & FW	October
Animal Science	- Care and management of livestock during summer	4	25	Farmers & FW	May
	- Importance and use of green fodder in milk production	4	25	Farmers & FW	August
	- Foot & Mouth disease and its control	4	25	Farmers & FW	November
	- Balanced feeding of Prégnant Animals	4	25	Farmers & FW	Febuary
Agril. Engg.	- Selection, maintenance and use of improved farm implements and machinery	4	25	Farmers	May
	- Post harvest technology and value addition of agriculture produce	4	25	Farmers & FW	August
	- Opération and maintenance of micro irrigation system	4	25	Farmers	October
Home Science	- Drudgery reducing devices for farm women in house hold and Agri. activities	4	25	Farm Women	May
	- Value addition in Groundnut	4	25	Farm Women	October
	- Squash making from fruits	4	25	Farm Women	January
Horticulture	- Improved cultivation practices for summer vegetables.	4	25	Farmers	April
	- Production technologies for rabi vegetables	4	25	Farmers	September
	Total : 16				

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 of micronutrient in crop production	3	25	Farmers	October
	➢ use of Bio fertilizers in Rabi crops instead of Gram.				
	➢ Importance of soil analysis for higher yield.				
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
	− Nutritive Deficiencies in Infertility problems of Cow and Buffaloes	3	25	Farmers	January
	− Zoonotic disease & its preventive measure	3	25	Farmers	February
Agril. Engg.	− Rain water harvesting and their efficient use in crop production	3	25	Farmers	June
	− Importance of secondary agriculture	3	25	Farm women	December
	− Importance and use of non-conventional sources of energy in agriculture	3	25	Farm women	January
Home Science	− Household food security by kitchen gardening	3	25	Farm women	June
	− Income generation activities for empowerment of rural Women	3	25	Farm women	August
	− Use of sprouted pulses in preparation of low cost nutrition diet	3	25	Farm women	December
	− Preparation and preservation of fruits & vegetables	3	25	Farm women	January
Horticulture	− Importance of drip irrigation in horticultural crops.	3	25	Farmers	April
	− Grading, sorting and pawing of fruits & vegetables	3	25	Farmers	December
	Total : 19				

3. Vocational Training:

Sr. No.	*Title of Training*	*Dura.Days*	*No. of parti*	*Type of Parti.*
1.	Preparation and preservation of fruits & vegetables	5	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.	– Watershed management	1	25	Ext Workers of DWDU
4.	– Preventive measure and first aid treatment of important disease in dairy animals	1	25	Ext Workers (OFF)
5.	– Women and child health care	1	25	Anganwadi worker

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.	– Use of improved farm implements	1	25	Farmers	ATMA-Rajkot
5.	- Irrigation management in Rabi crop.	1	25	Farmers	FTC-Rajkot
6.	- INM in *Bt.* Cotton	2	25	Ext. workers	ATMA Rajkot
7.	- IPM & IDM in *Bt.* Cotton	2	25	Ext. workers	ATMA Rajkot
8.	- 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	Total
1.	Crop production	2	2	**4**
2.	Pl. Protection	2	3	**5**
3.	Animal Science	4	5	**9**
4.	Agril. Engineering	3	3	**6**
5	Home science	3	4	**7**

6	Horticulture	2	2	**4**
	Total	**16**	**19**	**33**
1.	In service training	4	1	5
2.	Sponsored Training	7	1	8
3.	Vocation training	-	1	1
	Grand Total	**27**	**22**	**47**

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	Ground nut	GJG-22	NRM	Variety (GJG-22)	Seed of GJG-22 (20 Kg/ Farmer)	Kharif-2018	4.0	10	No. of Pods/Plants Yield, B:C ratio, Farmers perception
2	Ground nut	GJG-9	NRM	Variety (GJG-9)	Seed of GJG-9 (20 Kg/ Farmer)	Kharif-2018	2.0	5	No. of Pods/Plants Yield, B:C ratio, Farmers perception
3	Ground nut	GG-20	ICM	IPM	Chloro-pyriphos 25EC (1 Lit./ Farmer)	Kharif-2018	4.0	10	No. of damaged plants, Yield, B:C ratio, Farmers perception
4	Chick pea	GJG-3	NRM	Variety (GJG-3)	Seed of GJG-3 (20 Kg/ Farmer)	Rabi-2018-19	4.0	10	No. of Pods/Plants Yield, B:C ratio, Farmers perception
5	Wheat	GW-366/ GW-463	ICM	INM	$ZnSO_4$, Azatobactor and PSB	Rabi-2018-19	2.0	5	Length of /Plants Yield, B:C ratio, Farmers perception
6	Cumin	GC-4	ICM	IPM	Seed of GC-4 (6 Kg/ Farmer) and Trichoderma	Rabi-2018-19	4.0	10	No. of infected plants, Yield, B:C ratio, Farmers

					2Kg/Farmer				perception
7	Seasonal vege-tables	-	Kitchen gardening	Health management	Seed of different Veg.	Kharif-2018	0.5	5	Nutritional value, farm women perception
8	Chaff cutter	-	-	-	-	-	-	5	Fodder waste reduction, Farmers 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	Calf	Deworming	LPM	Disease Management	Panacure Bolus	2018-19	-	20	Mortality,
12	Fodder	Makhan grass	ICM	-	1Kg Seed of Makhan grass/Farmer	Rabi-2018-19	1.0	5	Plan high, Yield,B:C ratio, Farmers perception
	Total						**21.5**	**115**	
ATIC Project									
1	Ground nut	GG-20	ICM	INM and IDM	P. S. B. Culture and Trichoderma	Kharif-2018	20.0	50	Yield, B:C ratio, Farmers perception
2	Chick pea	GJG-3	NRM	Variety (GJG-3)	Seed of GJG-3 (20 Kg/ Farmer)	Rabi-2018-19	20.0	50	No. of Pods/Plants Yield, B:C ratio, Farmers perception

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 (Effect of mulching on productivity of drip irrigated 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 (25 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

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- 4

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	3
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