Action plan (April – 2019 to March– 2020)

It is proposed to organize the following batches of training programmes for farmers, farm women, rural youth and extension functionaries during April 2019 to March 2020

A. Training Programmes :

i) Farmers & Farm women (On Campus)

Date	Clien-tele	Title of the training programme	Dura-tion in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
April	PF	Importance of organic farming in cotton	1	22	3	25				25
July	PF	Castor production technology	1	25		25				25
November	PF	Improved cultivation practices wheat & Gram	1	21		21	4		4	25
January	PF	Improved cultivation practices for Summer groundnut and Sesame	1	22	3	25				25
June	PF	Weed Management in Kharif crop	1	25		25				25
Livestock prod.										
May	PF	Care and management of livestock during summer	1	20	0	20	05	0	05	25
August	PF	Importance and use of green fodder in milk production	1	15	03	20	4	1	05	25
November	PF/ FW	Infertility of cow & buffalo by infectious disease & its prevention	1	18	0	18	07	0	07	25
February	PF	Balanced feeding of Prégnant Animals	1	12	5	17	7	0	7	25
January	PF	Importance of Artificial Insemination	1	18	0	18	07	0	07	25
Agril. Engg.										
May	PF	Selection, maintenance and use of improved farm implements and machinery	1	23		23	2		2	25
August	PF	Post harvest technology and value addition of agriculture produce	1	20		20	5		5	25
October	PF	Opération and maintenance of micro irrigation system	1	22		22	3		3	25
January	PF	Importance of secondary agriculture	1	25		25				25
August	PF	In-situ moisture conservation practices in dry land agriculture	1	23		23	2		2	25
Home Sc.										
May	FW	Drudgery reducing devices for farm women in house hold and Agri. activities	1		25	25				25

August	FW	Preparation of bakery products	1		25	25				25
October	RY	Value addition in Groundnut	1		22	22		3	3	25
January	RY	Squash making from fruits	1		23	23		2	2	25
Decem.	FW	Importance of green leafy vegetables in diet and preparing recipes from vegetables.	1		22	22		3	3	25
Plan prot.										
May	PF	Integrated insect, pests & disease management in cotton	1	25		25				25
July	PF	Skill development for preparation of botanical pesticides	1	20		20	5		5	25
Octo	PF	Integrated insect, pests & disease management in cumin	1	22		22	3		3	25
January	PF	Storage grain pest and their management	1	24		24	1		1	15
April	PF	Different types of Seed treatment for insect pests and diseases management.	1	20		20	5		5	25
Horticulture										
May	PF	Improved cultivation practices for important fruit crops	1	20		20	5		5	25
July	PF	Different propagation methods for fruit crops suitable for arid and semi arid region.	1	22		22	3		3	25
Fisheries										
	PF									
Soil Health										
	PF									

ii) Farmers & Farm women (Off Campus)

Date	Clien-tele	Title of the training programme	Dura-tion in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
May	PF	Crop Production technology in kharif pulses	1	22		22	3		3	25
June	PF	Integrated Nutrient Management in Cotton	1	18	0	18	07	0	07	25
September	PF	Improved cultivation practices for Cumin & Fennel	1	17	05	22	03	0	3	25
October	PF	Use of Bio fertilizers in Rabi crops	1	25		25	25			25
November	PF	Integrated weed management & water management in major rabi field crops	1	20	0	20	05	0	05	25
January	PF	Efficient water management in summer field crops	1	15	03	20	4	1	05	25
April	PF	Soil and Water Testing	1	25		25	25			25

Live Stock Production.										
May	PF	Hemorrhagic Septicemia and its control	1	18	0	18	07	0	07	25
July	PF	Fodder Production Technology	1	17	05	22	03	0	3	25
Sept.	PF	Importance of colostrums feeding in new born calves	1	12	06	18	4	3	7	25
Nov.	PF	Awareness about control of Mastitis in animal by audio visual aid	1	12	5	17	7	0	7	25
Dec.	PF	Clean milk production by proper milking, watering & washing	1	20	0	20	05	0	05	25
Jan.	PF	Nutritive Deficiencies in Infertility problems of Cow and Buffaloes	1	15	03	20	4	1	05	25
March	PF	Zoonotic disease & its preventive measure	1	18	0	18	07	0	07	25
July	PF	Infertility of cow & buffalo by infectious disease & its prevention	1	15	03	20	4	1	05	25
Agril. Engg.										
June	PF	Rain water harvesting and their efficient use in crop production	1	23		23	2		2	25
July	PF	Water harvesting and groundwater recharge technologies	1	25		25				25
December	PF	Importance of secondary agriculture	1	23		23	2		2	25
January	PF	Importance and use of non-conventional sources of energy in agriculture	1	15	7	22	3		3	25
May	PF	Use of Plastics in farming practices	1	23		23	2		2	25
Home Sc.										
June	FW	Household food security by kitchen gardening	1		24	24		1	1	25
July	FW	Preparation of milk products	1		21	21		4	4	25
August	FW	Income generation activities for empowerment of rural Women	1		24	24		1	1	25
October	FW	Nutritional diet for children & adolescent girl	1		25	25				25
December	FW	Use of sprouted pulses in preparation of low cost nutrition diet	1		23	23		2	2	25
January	RY	Preparation and preservation of fruits & vegetables	1		22	22		3	3	25
January	RY	Value addition in aonla	1		25	25				25
May	FW	Nutritional diet for children & adolescent girl	1		23	23		2	2	25
Plant Protection										
April	PF	Management of pinkboll worm in cotton	1	24		24	1		1	25
June	PF	pest & disease management in groundnut	1	20		20	5		5	25

September	PF	Emerging insect pests & disease of Bt. cotton & their management.(pink boll worm ,mealy bug ,Stem weevil, mites)	1	25		25				25
October	PF	Integrated weed management & water management in major rabi field crops	1	23	2	25				25
January	PF	Store grain pest management	1	22		22	3		3	25
December	PF	Management of disease of spices (Rabi) crops.	1	23	2	25				25
Horticulture										
May	PF	Preparation of planting materials in nursery	1	23	2	25				25
August	PF	Cultivation practices for onion & garlic.	1	22		22	3		3	25
July	PF	Technology on mulching in pomegranate plantation.	1	25		25				25

iii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
Home Sci.	Value addition	Preparation and preservation of fruits & vegetables products	Nov.	6		25	25				25
Animal Sci.	Dairy	Scientific Dairy Farming	Dec.	7	25		25				25
			Total	**2**	**25**	**25**	**50**				**50**

iv) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Off Campus										
June	Extension workers	Pre-seasonal training on package of practice of Kharif crops	1	22		22	3		3	25
Aug.	Ext Workers	Pre-seasonal training on Rabi crops	1	18	0	18	7	0	7	25
July	Ext Workers of DWDU	Watershed management	1	23		23	2		2	25
May	Ext Workers	Preventive measure and first aid treatment of important disease in dairy animals	1	23		23	2		2	25
	Total		**4**	**86**		**86**	**14**		**14**	**100**

v) Sponsoredprogramme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training progdramme											
Livestock	Gopal Dairy Rajkot	PF	Scientific Dairy management	1	25		25				25
Home Sci.	PHC	FW	Nutritional management in Mother and Child	1		23	23		2	2	25
Plant Protection	ATMA	Farmers	Integrated pest management in vegetable crops	1	22		22	3		3	25
Agri. Engg.	ATMA - Rajkot	Farmers	Use of improved farm implements	1	25		25				25
Horti.	FTC	Farmers	Irrigation management in Rabi crop	1	25		25				25
Agronomy	ATMA Rajkot	Farmers	INM in Bt. Cotton	1	25		25				25
Agronomy	FTC	Farmers	IPM & IDM in Bt. Cotton	1	25		25				25
Livestock	Gopal Dairy	Farmers	Training programme for A. I. workers	1	25		25				25
b) Sponsored research programme											
c) Any special programmes											
			Total	**8**	**172**	**23**	**195**	**3**	**2**	**5**	**200**

Summary of Training programme :

Sr. No.	*Subject*	*On campus*	*Off campus*	*Total*
1.	Crop Production	5	7	12
2.	Plant protection	5	6	11
3.	Animal Science	5	8	13
4.	Horticulture	2	3	10
5.	Agril. Engineering	5	5	13
6.	Home science	5	8	5
	Total	**27**	**37**	**64**
1.	Vocational training	1	1	2
2.	In service training	4	-	4
3.	Sponsored Training	7	1	8
	Grand Total	**40**	**38**	**78**

B. Front Line Demonstrations (Proposed)

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs with cost (Rs.)	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 -2019	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 -2019	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 -2019	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-2019-20	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-2019-20	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 2Kg/Farmer	Rabi-2019-20	4.0	10	No. of infected plants, Yield, B:C ratio, Farmers perception
7	Cumin	GC-4	ICM	line sowing for minimizing the diseases intensities	Seed of GC-4 (6 Kg/ Farmer) and Fungicide	Rabi 2019-20	2.0	5	No. of infected plants, Yield, B:C ratio, Farmers perception
8	Women	-	Drudgery reduction	Drudgery reduction	Revolving milking stool	-	-	5	Level of drudgery, Physical stress, Work output and Field acceptability, farm women's reflection

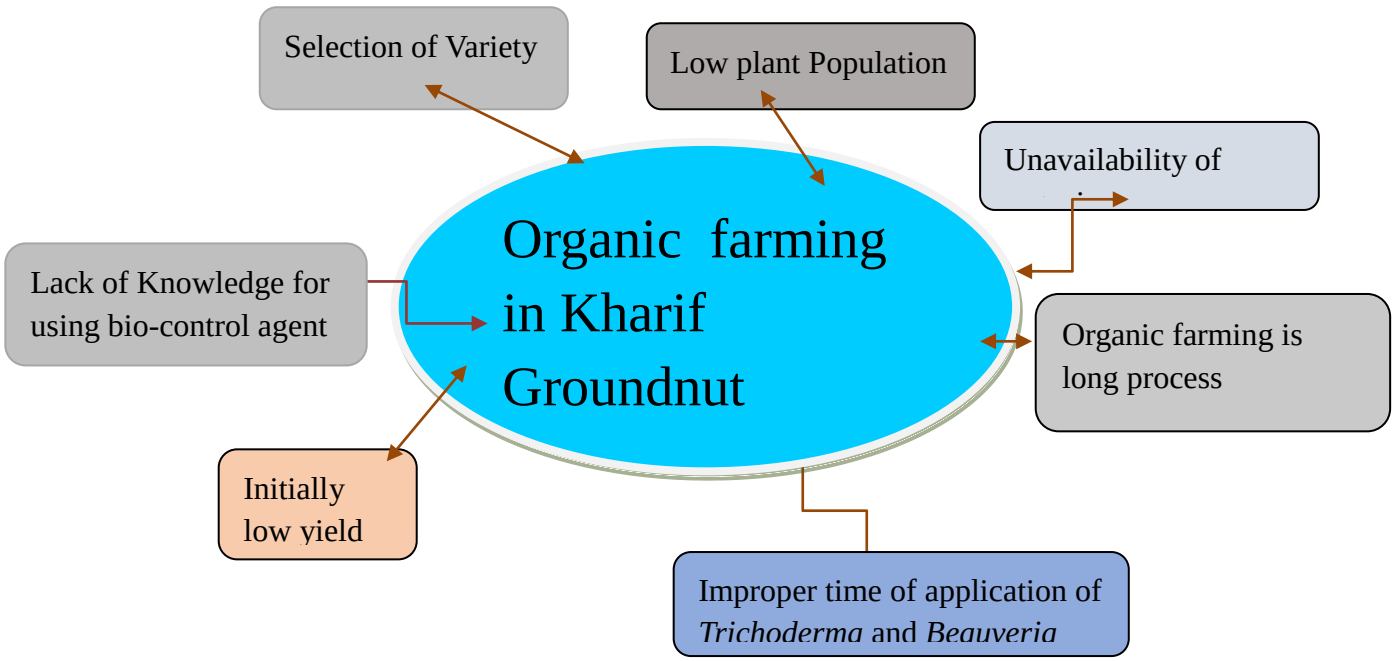
Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators
Nutrient Management	Cow	20	20	Chelated mineral Mixture	Milk production, B:C ratio, Farmers perception
	Buffalo	10	10	Bypass Fat	
	Buffalo	10	10	Bypass Protein	
Disease Management	Buffalo	20	20	Deworming tablet	Mortality,
Fodder Management	Fodder	10	10	Jinjvo	Plant height, Yield, B:C ratio, Farmers perception

C. ON FARM TESTING (OFTs)

OFT-1 (New) : Organic farming in Kharif Groundnut

Problem Cause Diagram



Crop/ enterprise	Prioritized problem	Title of OFT
Groundnut/NRM	Non use of organic products in farming	Organic farming in Kharif Groundnut

Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the OFT (Rs.)	Parameters to be studied
T-1: RDF (Chemical)+ Seed Treatment	National Centre of Organic farming, Ghaziabad (U.P.) & JAU	cow dung	10 kg	Appr. Rs. 2000 to 3000	2	5000/-	1. Growth and yield parameters 2. Available Soil Nutrients
T-2: 5 t FYM/ha + Bio-fertilizers [Rhizobium (3 lit/ha)+ PSB 3lit/ha)]+ Panchgavya + Trichoderma + Beuveria		cow urine	10 lit.				
		cow milk	2 lit.				
T-3: Only Panchagvya (Cow based Farming)		cow butter	1 Kg				
		Jaggary	2 Kg				
		Any pulse grain flour	2Kg				
		Live forest	1 Kg				
		soil water	200 lit.				
		Savaj Rhizobum	500 ml.				
		Savaj PSB	500 ml.				
		Savaj FYM	1 lit.				

OFT-2 : Effect of mulching on productivity of kharif groundnut

Crop/ enterprise	Prioritized problem	Title of OFT
Groundnut	High soil moisture losses during the crop period.	Effect of mulching on productivity of kharif groundnut

Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the OFT (Rs.)	Parameters to be studied
T-1: Without mulching	Farmer practices	-	-	-	-	-	Yield and Soil moisture content, plant height
T-2: Farm Residues mulching	JAU, Junagadh		500 kg	1000	2	2000	

OFT-3 : Water management in drip irrigated cotton crop

Crop/ enterprise	Prioritized problem	Title of OFT
Cotton	Water scarcity in the region due to less rainfall.	Water management in drip irrigated cotton crop

Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the OFT (Rs.)	Parameters to be studied
T-1: Without mulching	Farmer practices	-	-	-	-	-	Yield and Soil moisture content, plant height
T-2: Plastic mulch (25 micron)	RTTC, JAU, Junagadh	Silver-black plastic sheet	1000 sq.m	2000	2	4000	
T-3: Farm Residues mulching	JAU, Junagadh		500 kg	1000	2	2000	

B. Extension Activities:

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	5	75	45	120	7		7	82	45	127
KisanMela	3	30000	10000	40000	45	5	50	30045	10005	40050
KisanGhosthi	15	300	65	365	7		7	307	65	372
Exhibition	3	2100	250	2350	15	2	17	2115	252	2367
Film Show	12	289	78	367	15	3	18	304	81	385
Farmers Seminar	2	400	50	450	3		3	403	50	453
Workshop	1	35	5	40			0	35	5	40
Group meetings	10	230	20	250			0	230	20	250
Lectures delivered as resource persons	25	1050	350	1400	25	5	30	1075	355	1430
Newspaper coverage	5			0			0	0	0	0
Radio talks	5			0			0	0	0	0
TV talks	5			0			0	0	0	0
Popular articles	8			0			0	0	0	0

Extension Literature	10			0			0	0	0	0
Advisory Services	8			0			0	0	0	0
Scientific visit to farmers field	22	220	20	240	10		10	230	20	250
Farmers visit to KVK	150	6000	500	6500	20	10	30	6020	510	6530
Diagnostic visits	5	75		75	5		5	80	0	80
Exposure visits	3	75	75	150	3	2	5	78	77	155
Ex-trainees Sammelan	1	150	25	175			0	150	25	175
Soil health Camp	2	250	50	300	4		4	254	50	304
Animal Health Camp	3	1500		1500	5		5	1505	0	1505
Soil test campaigns	480						0	0	0	0
Self Help Group Conveners meetings	2		60	60		3	3	0	63	63
MahilaMandals Conveners meetings	2		90	90		2	2	0	92	92
Celebration of important days	5	780	234	1014	5		5	785	234	1019
KrishiMohostva	1			0			0	0	0	0
KrishiRath	1			0			0	0	0	0
Pre Kharif workshop	1	75		75	5		5	80	0	80
Pre Rabi workshop	1	75		75	5		5	80	0	80
Any Other (Specify)	3	245	25	270	3		3	248	25	273
Total	**1019**	**43924**	**11942**	**55866**	**182**	**32**	**214**	**44106**	**11974**	**56080**