Action plan 2021

It is proposed to organize the following batches of training programmes for farmers, farm women, rural youth and extension functionaries during January to December 2021

A. Training Programmes :

i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration 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 Groundnut	1	25		25				25
June	PF	Reduction of cost of cultivation practices in kharif crops	1	22	3	25				25
July	PF	Weed management in Kharif crops	1	21		21	4		4	25
October	PF	Improved cultivation practices in Rabi crops.	1	22	3	25				25
November	PF	Use of Bio-products in Rabi crops	1	22	3	25				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
Livestock Production										
Jan.	PF/FW	Importance of Artificial Insemination	1	15		15	10		10	25
Feb.	PF	Balanced feeding of Prégnant Animals	1	15		15	10		10	25
May	PF/FW	Care and management of livestock during summer	1	15		15	10		10	25
August	PF/FW	Importance and use of green fodder in milk production	1	15		15	10		10	25
November	PF	Foot & Mouth disease and its control	1		20	20		5	5	25
December	PF/FW	Clean milk production by proper milking, watering & washing	1	20		20	5		5	25

Agril. Engg.										
Feb.	PF	Use of improved farm implements in farm mechanization	1	23		23	2		2	25
March	PF	Use of Plastics in farming practices	1	23		23	2		2	25
April	PF	Operation and maintenance of micro irrigation system	1	23		23	2		2	25
June	PF	Ground water recharge techniques	1	23		23	2		2	25
July	PF	Use of improved small tools and implements for drudgery reduction in agriculture	1	22		22	3		3	25
October	PF	Importance of small scale processing and value addition of agriculture produce	1	20		20	5		5	25
Home Science										
January	FW	Importance of green leafy vegetables in diet and preparing recipes from vegetables.	1		25	25				25
May	FW	Use of sprouted pulses in preparation of low cost nutrition diet.	1		23	23		2	2	25
November	FW	Income generating activities	1		25	25				25
Plant protection										
January	PF	Principles of storage pest management	1	25		25				25
April	PF	Importance of seed treatment for insect-pest & disease management	1	20		20	5		5	25
may	PF	Integrated insect-pest & disease management in cotton	1	22		22	3		3	25
July	PF	Skill development for preparation of Bio pesticides.	1	24		24	1		1	25
Octo.	PF	Integrated insect-pest & disease management in Rabi crops.	1	25		25				25
Fisheries										
	PF									
Soil Health										
	PF									

ii) Farmers & Farm women (Off Campus)

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	
Crop Production										
January	PF	Efficient water management in summer groundnut	1	20		20	5		5	25
January	PF	Efficient water management in summer Sesame	1	20		20	5		5	25
April	PF	Soil & water analysis & its importance	1	22		22	3		3	25
May	PF	Improved cultivation practices for kharif groundnut	1	22		22	3		3	25
May	PF	Improved cultivation practices for cotton	1	22		22	3		3	25
June	PF	Use of Bio fertilizers in Kharif crops	1	20		20	5		5	25
June	PF	Integrated Nutrient Management in Cotton	1	17	5	22	3		3	25
September	PF	Improved cultivation practices for Rabi crops.	1	25		25				25
October	PF	Use of Bio fertilizers in Rabi crops	1	20		20	5		5	25
November	PF	Integrated weed management & water management in cumin	1	22		22	3		3	25
November	PF	Integrated weed management & water management in chick pea	1	22		22	3		3	25
December	PF	Integrated weed management & water management in wheat	1	22		22	3		3	25
Horticulture										
April	PF	Improved cultivation practices for summer vegetables	1	23	2	25				25
May	PF	Preparation of planting materials in nursery	1	23	2	25				25
May	PF	Importance of drip irrigation in horticultural crops	1	25		25				25
July	PF	Technology on mulching in pomegranate plantation	1	22		22	3		3	25
August	PF	Cultivation practices for onion & garlic	2	50		50				50
Sept.	PF	Production technologies for rabi vegetables	2	47		47	3		3	50
Livestock Production										
Jan.	PF	Nutritive Deficiencies in Infertility problems of Cow and Buffaloes	1	10	7	17	6	2	8	25

March	PF	Zoonotic disease & its preventive measure	1	10	7	17	7	1	8	25
May	PF	Hemorrhagic Septicemia and its control	1	10	6	16	7	2	9	25
May	PF	Fodder Production Technology	1	15		15	10		10	25
July	PF	Infertility of cow and buffalo by infectious disease	1	15		15	10		10	25
July	PF	Care & Management of livestock during monsoon	1	20		20	5		5	25
August	PF	Importance of colostrum feeding in new born calves	1	20		20	5		5	25
Sept.	PF	Awareness about control of Mastitis in animal by audio visual aid	1	20		20	5		5	25
Agril. Engg.										
March	PF	Installation and maintenance of drip irrigation systems	1	20		20	5		5	25
May	PF	Important techniques of soil and water conservation in dry land agriculture	1	22		22	3		3	25
June	PF	Use of Plastics in farming practices	1	22		22	3		3	25
August	PF	Selection, repair and maintenance of plant protection equipment	1	23		23	2		2	25
Sept.	PF	Importance of post harvest technology in agriculture	1	15	5	20	3	2	5	25
Oct.	PF	Small scale processing and value addition	1	22		22	3		3	25
Nov.	PF	Importance of drip irrigation in horticulture crops	1	20		20	5		5	25
Dec.	PF	Importance and use of renewable sources of energy in agriculture and rural sector	1	23		23	2		2	25
Home Science										
January	FW	Preparation and preservation of fruits & vegetables	1		22	22		3	3	25
April	RY	Preparation of bakery products	1		25	25				25
May	FW	Preparation of milk products	1		21	21		4	4	25
June	FW	Household food security by kitchen gardening	2		49	49		1	1	50
August	FW	Income generation activities for empowerment of rural Women	2		44	44		6	6	50

October	FW	Drum stick-A nutritional diet	1		25	25				25
Nov.	FW	Importance of green leafy vegetables in diet and preparing recipes from vegetables.	2		50	50				50
December	FW	Preparation of jam, squash, catch up from fruits	1		23	23		2	2	25
Plant Protection										
January	PF	Integrated insect-pest & diease management for summer crops.	1	24		24	1		1	25
April	PF	Management of pinkboll worm in cotton	2	45		45	5		5	50
June	PF	Insect pest & disease management in groundnut	2	50		50				50
September	PF	Emerging insect pests & disease of Bt. cotton & their management.	2	48	2	50				50
October	PF	Store grain pest management	1	22		22	3		3	25
December	PF	Management of insect pest & disease in spices crops	1	23		23	2		2	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	
Agronomy	Integrated farming	Integrated farming	May	6	23		23	2		2	25
Home Sci.	Tailoring and Stitching	Tailoring and Stitching	May	5		25	25				25
Agri. Engg.	PHT	Small scale processing and value addition	Sept	2	23		23	2		2	25
Home Sci.	Rural Crafts	Income generating activities by rural youth	Octo.	5		23	23		2	2	25
Home Sci.	Value addition	Preparation and preservation of fruits & vegetables products	Dec.	6		24	24		1	1	25
			Total (5)		**46**	**72**	**118**	**4**	**3**	**7**	**125**

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	
June	Extension workers	Pre-seasonal training on package of practice for Kharif crops	1	25		25				25
May	Ext Workers	Integrated Nutrient management in kharif crops	1	18		18	7		7	25
June	Ext Workers of DWDU	Watershed management	1	25		25				25
	Total		**3**	**68**	**0**	**68**	**7**	**0**	**7**	**75**

v) Sponsored training programme

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											
Animal Science	Gopal Dairy Rajkot	-	Scientific Dairy Management	1	25		25				25
Home Sci.	ATMA	FW	Value addition in Groundnut	1		22	22		3	3	25
Home Sci.	FTC	FW	Squash making from fruits	1		23	23		2	2	25
Agri. Engg.	ATMA	PF	Use of improved farm implements	1	22		22	3		3	25
Agri. Engg.	FTC	PF	Efficient use of micro irrigation system	1	25		25				25
Crop production	ATMA	PF	Fertilizer management in Kharif crop	1	25		25				25
	Total			**6**	**97**	**45**	**142**	**3**	**5**	**8**	**150**
b) Sponsored research programme											
c) Any special programmes											

Summary of Training programme :

Sr. No.	*Subject*	*On campus*	*Off campus*	*Total*
1.	Crop Production	5	12	**17**
2.	Horticulture	2	8	**10**
3.	Animal Science	6	8	**14**
4.	Agril. Engineering	6	8	**14**
5.	Home science	3	11	**14**
6.	Plant protection	5	9	**14**
	Total	**27**	**56**	**83**
1.	Vocational training	-	5	5
2.	In service training	3	-	3
3.	Sponsored Training	6	-	6
	Grand Total	**36**	**61**	**97**

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-22/32	NRM	Variety+ INM+ IPM+IDM	Seed :30 kg Tricoderma : 1 kg Beauveria: 1 kg PSB: 500 ml	Kharif-2021	4.0	10	No. of Pods/Plants Yield, B:C ratio, Farmers perception
2	Ground nut	GG-22	ICM	IPM	Chlorpyriphos 25EC (0.5 Lit./ Farmer) + Trichoderma: 1 kg	Kharif-2021	4.0	10	No. of damaged plants, Yield, B:C ratio, Farmers perception
3	Chick pea	GJG-3	NRM	Variety (GG-5)	Seed of GJG-3 (25 Kg/ Farmer)	Rabi-2021-22	4.0	10	No. of Pods/Plants Yield, B:C ratio, Farmers perception
4	Wheat	GW-351	ICM	INM	$ZnSO_4$, Azatobactor: 500 ml and PSB: 500 ml	Rabi-2021-22	2.0	5	Length of spike, Yield, B:C ratio, Farmers perception
5	Cumin	GC-4	ICM	IPM	Seed of GC-4, (6 Kg/ Farmer) and Trichoderma 2Kg/Farmer	Rabi-2021-22	4.0	10	No. of infected plants, Yield, B:C ratio, Farmers perception
6	Cumin	GC-4	ICM	line sowing for minimizing the diseases intensities	Seed of GC-4, (6 Kg/ Farmer) and Fungicide	Rabi 2021-22	2.0	5	No. of infected plants, Yield, B:C ratio, Farmers perception
7	Seasonal vege-tables	-	Kitchen gardening	Health management	Seed of different Vegetable crop	Kharif-2020	-	5	Nutritional value, farm women perception
8	Brinjal	-	IPM	Use of MDP for control of shoot and fruit borer	MDP: 2 tube per farmer	Rabi-2021-22	4.0	10	No. of infested plants, yield parameters
9	Jinjvo	JAU, Junagadh	Nutrition management	Jinjvo Grass	NIL	Kharif-2021	4	10	Milk Yield Fodder Yield

a. Farm Implements :

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators
Chaff cutter	Fodder crop (Maize and Sorghum)	2021	5	-	Chaff cutter Demo.	Fodder waste reduction, Farmers perception
Wheel hoe	Groundnut and other line sowing crop	2021	5	0.50	Wheel hoe Demo.	Field capacity and work efficiency/ drudgery reduction

b. Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators
Buffalo	Jafrabadi	20	20	Chelated Mineral Mixture	Milk yield, Inter Caving Period
Buffalo	Jafrabadi	20	20	Bypass Protein	Milk yield, Fat Percentage
Buffalo	Bunny	20	20	Bypass Fat	Fat Percentage, Milk yield,

C. ON FARM TESTING (OFTs)

S.No.	Crop/ enterprise	Prioritized problem	Title of OFT	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	Team members
1	Child	Nutritional deficiency and poor health status of child	Assessment of Drum stick leaves power as nutritional supplement in 6 month-5 years old child	Daily existing normal food	Local	-	-	-	5	-	Body weight and Height,	Smt. H. H. padsumbiya
				Moringa pods as vegetable and leaf powder/ 5gm/ day and fruits / 50gm/ day as supplement	Dept. of Health, Govt. of Gujarat	Leaf powder and fruits	900 gm & 9 kg/ child	1000		5000		
2	Farm woman	Lack of knowledge	Preservation techniques of different pulses with organic methods	Use of Neem leaves	IRRI-2011	Neem leaves	50gm dry leaves/500gm food grain	800	5	4000	Quality of stored grain, damage percentages	Smt. H. H. padsumbiya
				Use of Castor oil		Castor oil	1kg castor oil/ 100Kg food grain					
				Use of pro super bag		Super bag	-					

3	Sesame	High soil moisture losses during the crop period.	Summer sesame response to irrigation under drip and mulching technology	1. Without mulching		-	-	-	2	-	Yield and Soil moisture content and B:C Ratio	Shri D. P. Sanepara
				2. Farm Residues mulching (5 tone/ha wheat straw)	Dept. of SWCE, CAET, JAU, Junagadh	Sesame seed and Farm Residues	2 kg and 500 kg	2250		4500		
4	Cumin	Low yield due to sowing method and over irrigation	Performance of drip irrigation with line sowing method in cumin	1. Broad casting method without drip irrigation		-	-	-	2	-	Yield, disease infestation and B:C Ratio	Shri D. P. Sanepara
				2. Line sowing with drip irrigation	RTTC, JAU, Junagadh	Cumin seed	2 kg	600		1200		
5	Groundnut	Higher use of chemical fertilizers	Organic farming in Kharif Groundnut	T-1 : Farmers practices	Junagadh Agril. Universit,Junagadh	-	-	-	2		1. Yield parameters 2. Economics.	Dr. J. H. Chaudhry
				T-2 : Cow base farming		Panchagavya (cow dung + cow urine +cow curd + cow ghee + cow milk	9 kg + 5 lit. + 2 lit. + 2 lit. + 2 lit.	1500		7000		
				T-3 : All bio-products		Rhizobium + PSB + KSB + neem oil + Tricoderma + Beuveria etc.	500 ml + 500 ml + 500 ml + 3 kg + 3 kg	2000				

6	Groundnut	Higher use of pesticides	Infestation of white grub in organic Kharif Groundnut	T-1 : Farmers practices	Junagadh Agril. University, Junagadh	-	-	-	2	-	1. Growth and yield parameters 2. % of white grub infestation	Shri M. K. Jadeja
				T-2 : Cow base farming		Panchagavya (cow dung + cow urine +cow curd + cow ghee + cow milk	9 kg + 5 lit. + 2 lit. + 2 lit. + 2 lit.	1500		7000		
				T-3 : All bio-products		Rhizobium + PSB + KSB + neem oil + Tricoderma,+ Beuveria etc.	500 ml + 500 ml + 500 ml + 3 kg + 3 kg	2000				
7	Cumin	*Heavy incidence of wilt disease in cumin*	*Use of Trichoderma for wilt disease management in cumin*	No use of trichoderma or fungicide at the time of sowing. But they use fungicides viz., carbendazim, hexaconazole, difenconazole, tebuconazole, propiiconazole, , etc after initiation of diseases. (Farmers practices.)	-	-	-	-	3	-	***Wilt (%) and Yield***	Shri M. K. Jadeja
				Application of Trichoderma @ 5 kg /ha with organic manure @500 kg / ha at the time of sowing.. (Recommended practices.)	JAU, Junagadh	Tricoderma	1 Kg	70		630		

				Application of Trichoderma @ 5 kg /ha along with organic manure @500 kg / ha at the time of sowing and second application of Trichoderma @ 5 kg /ha along with organic manure by broadcasting method at 15 days after germination. (Intervention).	-	Tricoderma	2 Kg	140				
8	Buffalo	Low Milk Production	Chelated Mineral mixture and Bypass Protein for dairy Buffalo	1. Cotton Seed Cake	Farmers Practices	Cotton Seed Cake	1000kg	20000	1	20000	1. Milk yield 2. Fat Percentage	Dr. M.M Tajpara
				2. Chelated Mineral mixture + Cotton Seed Cake	AAU, Anand	Chelated Mineral mixture + Cotton Seed Cake	10 kg + 1000 kg	20000 + 20000	1	22000	Milk yield 2. Fat Percentage	
				3. Chelated Mineral mixture + Bypass Protein	AAU, Anand	Chelated Mineral mixture + Bypass Protein	10 kg 1500 kg	20000 30000	1	32000	Milk yield 2. Fat Percentage	

9	Chilli	Problem of diseases in chilli	Effect of the fungicide on disease of chilli	T1: 2 spray of Hexaconazol @ 1ml per litre @ 15 days interval	JAU, Junagadh	Hexaconazol	500 ml	180	3	3990	1.Yield Parameters 2. % of disease	Dr.M.K .Jadeja
				T2: Seed treatment of Carbendazime @ 3 gm per seed + soil application of Trichoderma @2.5 kg/ha + Soil drenching of COC@ 40gm/10 lit		Carbendazime, Trichoderma, COC	300 gm + 1 kg + 500 gm	680				
				T3: 2 spray of Hexaconazol @ 1ml per litre @ 15 days interval + Soil drenching of COC@ 40gm/10 lit		500 ml + 500 gm	180 + 290 +	470				

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				35	5	40
Group meetings	10	230	20	250				230	20	250
Lectures delivered as resource persons	25	1050	350	1400	25	5	30	1075	355	1430
Newspaper coverage	5									
Radio talks	5									
TV talks	5									
Popular articles	8									
Extension Literature	10									
Advisory Services	8									
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				150	25	175
Soil health Camp	2	250	50	300	4		4	254	50	304
Animal Health Camp	2	70		70	4		4	74		74
Agri mobile clinic										
Soil test campaigns	480									
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	2		60	60		3	3		63	63
MahilaMandals Conveners meetings	2		90	90		2	2		92	92
Celebration of important days (specify)	5	780	234	1014	5		5	785	234	1019
KrishiMohostva	1									

KrishiRath	1									
Pre Kharif workshop	1	75		75	5		5	80		80
Pre Rabi workshop	1	75		75	5		5	80		80
PPVFRA workshop										
Any Other (Specify)	3	245	25	270	3		3	248	25	273
Total	**798**	**42494**	**11942**	**54436**	**181**	**32**	**213**	**42675**	**11974**	**54649**