

Action plan 2022

It is proposed to organize the following batches of training programmes for farmers, farm women, rural youth and extension functionaries during January to December 2022

A. Training Programmes :

i) Farmers & Farm women (On Campus)

Month/ Date	Clientele	Title of the training programme	Durati on 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			0	25
June	PF	Reduction of cost of cultivation practices in kharif crops	1	22	3	25			0	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			0	25
Nov.	PF	Use of Bio-products in Rabi crops	1	22	3	25			0	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	Importance of Artificial Insemination	1	25		25				25
Feb.	PF	Balanced feeding of Prégnant Animals	1	25		25				25
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
Nov.	PF/ FW	Infertility of cow & buffalo by infectious disease & its prevention	1	18	0	18	07	0	07	25
Agril. Engineering										
Feb.	PF	Operation and maintenance of micro irrigation system	1	23		23	2		2	25
April	PF	Rain Water harvesting and groundwater recharge technologies	1	23		23	2		2	25
May	PF	Selection, maintenance and use of improved farm implements and machinery	1	25		25			0	25
July	PF	Farm Machinery and its maintenance	1	20		20	5		5	25

August	PF	Importance of small scale processing and value addition of agriculture produce	1	20		20	5		5	25
October	PF	Importance of Post-harvest technology in agriculture	1	23		23	2		2	25
Home Science										
January	FW	Importance of green leafy vegetables in diet and preparing recipes from vegetables.	1		25	25				25
May	FW	Household food security by kitchen gardening.	1		25	25				25
June	FW	Use of sprouted pulses in preparation of low cost nutrition diet.	1		23	23		2	2	25
August	RY	Preparation of bakery products	1		25	25				25
October	RY	Rural Crafts	1		25	25				25
December	FW	Value addition in fruits & vegetable	1		22	22		3	3	25
Plant Protection										
January	PF	Principles of storage pest management	1	25		25				25
April	PF	Importance of seed treatment for insect-pest & disease manag.	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	15
October	PF	Integrated insect-pest & disease management in Rabi crops.	1	25		25				25

ii) Farmers & Farm women (Off Campus)

Month/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 field crops	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 crops	1	22		22	3		3	25
June	PF	Integrated Nutrient Management in Cotton	1	17	5	22	3		3	25
Sept.	PF	Improved cultivation practices for Rabi crops.	1	25		25			0	25
October	PF	Use of Bio fertilizers in Rabi crops	1	20		20	5		5	25
Nov.	PF	Integrated weed management & water management in major rabi crops	1	22		22	3		3	25

Horticulture										
May	PF	Preparation of planting materials in nursery	1	23	2	25				25
July	PF	Latest technologies Production technologies for Fruit Vegetable crops	1	22		22	3		3	25
August	PF	Cultivation practices for onion & garlic	1	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
Agril. Engineering										
March	PF	Importance and use of non-conventional sources of energy in agriculture	1	25		25			0	25
June	PF	Use of Plastics in farming practices	1	23		23	2		2	25
June	PF	In-situ moisture conservation practices in dry land agriculture	1	15	7	22	3		3	25
Sept	PF	Importance of post-harvest technology in agriculture	1	20		20	5		5	25
Nov.	PF	Importance of drip irrigation in horticulture crops	1	23		23	2		2	25
Dec.	PF	Selection, repair and maintenance of plant protection equipment	1	23		23	2		2	25
Home Science										
January	FW	Preparation and preservation of fruits & vegetables	1		22	22		3	3	25
April	FW	Drudgery reducing technologies for farm women in agriculture	1		24	24		1	1	25
May	FW	Value addition in Pearl millet	1		21	21		4	4	25
June	FW	Layout of Nutrition garden and importance of kitchen gardening	1		24	24		1	1	25
August	FW	Income generation activities for empowerment of rural Women	1		24	24		1	1	25
October	FW	Drum stick-A nutritional diet	1		25	25				25
Dec.	FW	preparation of different types of masala	1		23	23		2	2	25

Plant Protection										
January	PF	Integrated insect-pest & disease management for summer crops.	1	24		24	1		1	25
April	PF	Management of pinkboll worm in cotton	1	20		20	5		5	25
June	PF	Insect pest & disease management in groundnut	1	25		25				25
Sept.	PF	Emerging insect pests & disease of Bt. cotton & their management	1	23	2	25				25
October	PF	Store grain pest management	1	22		22	3		3	25
Dec.	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.	Repair and maintenance of farm machinery	Repair and maintenance of sprayer, power sprayer, duster etc.	July	2	23		23	2		2	25	
Animal Science	Dairy	Scientific Dairy Farming	Dec.	7	25		25				25	
Home Sci.	Value addition	Preparation and preservation of fruits & vegetables products	Dec.	5		24	24		1	1	25	
				Total	5	71	49	120	4	1	5	125

iv) Training programme for extension functionaries

Month	Clientele	Title of the training programme	Duration (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	0	18	7	0	7	25
June	Anganwadi workers	Layout of Nutrition garden and importance of kitchen gardening	1	0	22	22	0	3	3	25
July	Ext Workers of DWDU	Watershed management	1	23		23	2		2	25
May	Ext Workers	Preventive measures and first aid treatment of important disease in dairy animals	1	23		23	2		2	25
Sept.	Ext Workers	Livestock feed and fodder production	1	23		23	2		2	25
Total			6	112	22	134	13	3	16	150

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	
Livestock	District A.H. Dept	PF	Scientific Dairy management	1	25		25				25
Agril. Engg.	ATMA	PF	Use of improved farm implements	1	22		22	3		3	25
Agril. Engg.	FTC	PF	Efficient use of micro irrigation system	1	25		25				25
Home Science	ATMA	FW	Women and child care	1		25	25				25
Home Science	Reliance foundation-Jasdan	FW	Household food security by kitchen gardening and nutrition gardening	1		25	25				25
Total				5	72	50	72	3	0	3	125

SUMMARY OF TRAINING PROGRAMME:

Sr. No.	Subject	On campus	Off campus	Total
1.	Crop Production	5	7	12
2.	Horticulture	2	3	5
3.	Animal Science	5	7	12
4.	Agril. Engineering	6	6	12
5.	Home science	6	7	13
6.	Plant protection	5	6	11
	Total	29	36	65
1.	Vocational training	1	4	5
2.	In service training	5	1	6
3.	Sponsored Training	4	1	5
	Grand Total	39	42	81

B. Front Line Demonstrations (Proposed)

i) Crop:

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 <i>Tricoderma</i> -500 gm Beauverria-500 gm PSB	Kharif -2022	4.0	10	No. of Pods/Plants Yield, B:C ratio, Farmers perception
2	Ground nut	GG-22	ICM	IPM	Chloro-pyriphos 25EC (1 Lit./ Farmer)	Kharif -2022	4.0	10	No. of damaged plants, Yield, B:C ratio, Farmers perception
3	Chick pea	GJG-6	NRM	Variety (GJG-6)	Seed of GJG-6 (25 Kg/ Farmer)	Rabi-2022-23	4.0	10	No. of Pods/Plants Yield, B:C ratio, Farmers perception
4	Wheat	GW-451	ICM	INM	ZnSO ₄ , <i>Azotobactor</i> and PSB	Rabi-2022-23	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 <i>Beuverria bassiana</i> 2Kg/Farmer	Rabi-2022-23	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 2022-23	2.0	5	No. of infected plants, Yield, B:C ratio, Farmers perception
7	Brinjal	GRB-7	Varietal Demo.	GRB-7	100 gm/farmer	Rabi-2022-23	2.0	10	Yield, B:C ratio, Farmers perception
8	Seasonal vegetables	-	Kitchen gardening	Health management	Seed of different Veg.	Kharif -2022	0.5	5	Nutritional value, farm women perception

ii) 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

iii) Livestock Enterprises

Thrust area	Livestock	No. of farmers	No. of animals	Critical inputs	Performance parameters / Indicators
Nutrient Management	Cow	20	20	Chelated mineral Mixture (30 gm/day)	Milk yield
Nutrient Management	Buffalo	20	20	Bypass Fat (100 gm /day)	Milk yield
Nutrient Management	Buffalo	20	20	Bypass Protein (5 kg/day)	Milk yield
Fodder Management	Buffalo	10	10	Jinjvo	Fodder yield & Milk Yield

C. On Farm Testing (OFTs)

Sr. 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	Cotton	Low Yield of Cotton	De-topping of cotton	T-1 : Farmers Practices	Junagadh Agril. University Junagadh	-	-	-	3	3000/-	1. No. of bolls per plant (10 Plants) 2. Yield (kg/ha) 3. Cost of cultivation 4. B:C Ratio	Dr. J. H. Chaudhry
				T-2 : De-topping at 75 DAS		Seeds of cotton (Var. IFFCO Sapna)	1.51 kg/Acre (3.75kg/ha)	1000				
				T-3 : De-topping of monopodial branches at 75 DAS & 90 DAS								
2	Tomato	To increase yield of Tomato by decreasing sucking pest infestation by sowing tolerant variety	Response of New Release Variety of Tomato GT-6 on leaf curl occurrence and yield.	T-1 : :Sowing of Local Variety + any Pesticides.	Junagadh Agril. University Junagadh	-	-	-	3	1500/-	1. Growth and yield parameters	Dr. M. K. Jadeja
				T-2 : Sowing of GT 6 Variety + foliar sprayings of Acephate 75 WP @ 1.5 g /liter 10 days after transplanting, Fipronil 5 SC @ 1.5 ml / liter 20 DAT, and Imidacloprid 70 WG @ 2g / 15 liter 40 DAT		Tomato Variety GT -6	250 gm Seed	500				
				T-3 : :Sowing of Local Variety and foliar sprayings of Acephate 75 WP @ 1.5 g / liter 10 days after transplanting, Fipronil 5 SC @ 1.5 ml / liter 20 DAT, and Imidacloprid 70 WG @ 2g / 15 liter 40 DAT								

3	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	Dr. M. K. Jadeja
				Application of Trichoderma @ 5 kg /ha with organic manure @500 kg / ha at the time of sowing.. (Recommended practices.)	JAU, Junagadh	<i>Trichoderma</i>	1 Kg	70	210			
				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).	-	<i>Trichoderma</i>	2 Kg	140	420			

4	Cumin	Low yield due to sowing method and over irrigation	Performanc of drip irrigation with line sowing method in cumin	1. Broad casting method without drip irrigation (Farmer's practices)	-	-	-	-	3	-	Yield, B:C Ratio and farmer's perception	Er. D. P. Sanepara
				2. Line sowing (20 cm) with drip irrigation (Recommended technology)	RTTC, JAU, Junagadh	Cumin seed	2 kg	600		1800		
5	Water melon	High soil moisture losses during the crop period	Effect of plastic mulch on drip irrigated water melon crop.	1. Without mulching (Farmer's practices)	-	-	-	-	3	-	Yield , B:C Ratio and farmer's perception	Er. D. P. Sanepara
				2. Plastic mulch (20 micron) with drip irrigation (Recommended technology)	Dept. of SWCE, CAET, JAU, Junagadh	Silver black plastic sheet	1000 sq.m.	20 00		6000		
6	Cow	During winter season Kid mortality, Pneumonia, diarrhea & low body weight	Fortified Health management for reducing kid mortality of cow	T-1 Colostrum after birth upto 3 days		Colostrum	10 % of body weight	-	3	-	1. Kid survival rate 2. Body weight	Dr. M. M. Tajpara
				T-2 T1+ Antibiotics (otc) after 5-7 days	IVRI, Izzatnagar	Colostrum Oxytetracycline	10% of b.w 6 mg/kg b.w	20 0		600/-		
				T-3 T1+ colostrum feeding		Colostrum Panacure tab	10% of b.w	10 0		300/-		
				T4 – T1+T2+T3		Colostrum Oxytetracycline Panacure tab	10% of b.w 6 mg/kg b.w	30 0		900/-		

7	Cow	Low milk production & infertility problems in dairy cow	Chelated & Area Specific Mineral mixture for dairy Cows	T1:-Farmers practices (Control)		T1:- Nil			5		1.Milk yield 2.Postpartum estrus 3.No. of insemination for conception	Dr. M. M. Tajpara		
				T2:-Fed with 50 gms/day mineral mixture supplementation (Reco.)	NDRI, Kernal, Hariyana	T2:- Mineral Mixture	1 kg	180		900				
				T3:-Cow fed with 50 gms/day chelated & area specific mineral mixture supplementation (Intervention)		T3:- Chelated and Area specific	1kg	200		1000				
8	Farm woman	Lack of knowledge	Preservati on techniques of different pulses with organic methods	Use of Neem leaves	IRRI-2011	Neem leaves	50gm dry leave s/500 gm food grain	800	5	4000	Quality of stored grain, damage percentages	Smt. H. H. padsum biya		
				Use of Castor oil		Castor oil	1kg castor oil/ 100K g food grain							
				Use of pro super bag		Super bag	-							

D. 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									
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
Any Other (Specify)	3	245	25	270	3		3	248	25	273
Total	798	42494	11942	54436	181	32	213	42675	11974	54649