

ACTION PLAN - 2023
(January to December 2023)

A: Training Programmes:

i) Farmers & Farm women (On Campus)

Month/ 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			0	25
June	PF	Natural Farming in Kharif Crops	1	22	3	25			0	25
July	PF	Weed management in Kharif Crops	1	21		21	4		4	25
October	PF	Natural Farming 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 Pregnant 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
Dec.	PF	Application and use of sexed semen in dairy cattle	1	25	0	25	0	0	0	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 techniques	1	23		23	2		2	25
May	PF	Selection 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
August	FW	Use of pear millet in preparation of low-cost nutrition diet.	1		23	23		2	2	25
Sept.	RY	Preparation of different pear millet products	1		25	25				25
October	RY	Rural Crafts	1		25	25				25
November	FW	Value addition in Anola	1		22	22		3	3	25
Plant Protection										
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
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	Nutrient Management in Cotton through Natural Farming	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 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	Foot & Mouth disease & its control	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	Value addition in Guava	1		22	22		3	3	25
April	FW	Drudgery reducing technologies for farm women in agriculture	1		24	24		1	1	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
Sept.	RY	Preparation of different pear millet products	1		25	25				25
October	FW	Drum stick-A nutritional diet	1		25	25				25
Dec.	RY	preparation of different types of masala	1		23	23		2	2	25
Plant Protection										
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
October	PF	Store grain pest management	1	22		22	3		3	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
Agril. 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	Natural Farming 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	Lumpy skin disease & its control	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 Farming	1	25		25				25
Agril. Engg.	ATMA	PF	Use of improved farm implements	1	22		22	3		3	25
Agril. Engg.	GGRC/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 found.- Jasdhan	FW	Household food security by kitchen 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	3	3	6
	Total	27	33	60
1.	Vocational training	3	2	5
2.	In service training	4	2	6
3.	Sponsored Training	4	1	5
	Grand Total	38	38	76

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-32	NRM	Variety+ INM+ IPM+IDM	Seed – 30 kg <i>Tricoderma</i> -500 gm Beauverria-500 gm PSB-500 ml	Kharif -2023	4.0	10	No. of Pods/Plants Yield, B:C ratio, Farmers perception
2	Ground nut	GG-32	ICM	IPM	Chloro-pyriphos 25EC (1 Lit./ Farmer)	Kharif -2023	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-2023-24	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-2023-24	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-2023-24	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 2023-24	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-2023-24	2.0	10	Yield, B:C ratio, Farmers perception
8	Seasonal vegetables	-	Kitchen gardening	Health management	Seed of different Veg.	Kharif-2023	0.5	5	Nutritional value, farm women perception
9	Pearl millet	GHB-1129	ICM	Varietal Demo.	Seed of Pearl millet	Summer-2023	2.0	5	Yield, B:C ratio, Farmers perception

ii) Farm Implements:

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators
Agri-drone	Groundnut Cotton	2023	30	12	-	Optimization of pesticides use and time saving
Chaff cutter	Fodder crop (Maize and Sorghum)	2023	5	-	Chaff cutter Demo.	Fodder waste reduction, Farmers perception
Wheel hoe	Groundnut and other line sowing crop	2023	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
1	Cotton	Low Yield of Cotton	De-topping of cotton	T-1: Farmers Practices	Junagadh Agril. University Junagadh	Seeds of cotton	(2.5 kg/ha)	1000	3	3000/-	1. No. of bolls per plant (10 Plants) 2. Yield (kg/ha) 3. Cost of cultivation 4. B:C Ratio
				T-2: De-topping at 75 DAS							
				T-3: De-topping of monopodial branches at 75 DAS & 90 DAS							
2	Groundnut	Deteriorate in yield and quality of groundnut	Natural Farming in kharif Groundnut	T-1: Farmers Practices	NCOF, Ghaziabad (U.P.)	1. Cow Urine 2. Cow Dung 3. Basan 4. Jaggary 5. Leaves of different trees	As per preparation of different products	500	3	1500/-	1. Yield (kg/ha) 2. Cost of cultivation 3. B:C Ratio
				T-2: Recommended Practices							
				T-3: Interpretations							
3	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
				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	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			Seed				

4	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
				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	
5	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 (Farmer's practices)	-	-	-	-	3	-	Yield, B:C Ratio and farmer's perception
				2. Line sowing (20 cm) with drip irrigation (Recommended technology)	RTTC, JAU, Junagadh	Cumin seed	6 kg	1650		4950/-	

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	IVRI, Izzatnagar	Colostrum	10 % of body weight	-	3	-	1. Kid survival rate 2. Body weight
				T-2 T1+ Antibiotics (otc) after 5-7 days		Colostrum Oxytetracycline	10% of b.w 6 mg/ kg b.w	200		600/-	
				T-3 T1+ deworming		Colostrum Panacure tab	10% of b.w	100		300/-	
				T4 – T1+T2+T3		Colostrum Oxytetracycline Panacure tab	10% of b.w 6 mg/ kg b.w	300		900/-	
7	Buffalo	Low milk yield & longer intercalving period in buffalo	Chelated mineral mixture, By pass protein and By pass fat for enhancing milk production in buffalo	T1:-Farmers practices (Control)	NDRI, Kernal, Hariyana	T1:- Nil			3		1.Milk yield 2.Postpartum estrus 3. Milk fat %
				T2:-Fed with 50 gms/day chelated mineral mixture supplementation (Reco.)		Chelated Mineral Mixture	1 kg	200		600	
				T3:-T2 + by pass protein (5 kg/day)		Mineral Mix by pass protein	1kg 5 kg	1500		4500	
				T4:- T3 + by pass fat (100 gm/day)		Mineral Mix by Pass Protein by Pass fat	1 kg 5kg 100 gm	2400		7200	

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
KisanGhoshi	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	3									
TV talks	3									
Popular articles	5									
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
Animal Health Camp	2	70		70	4		4	74		74
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
Total	782	41849	11867	53716	164	32	196	42013	11899	53912