20) Annual Action Plan - 2024

(January to December 2024)

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	Use of Natural farming techniques in vegetable crops	1	20		20	5		5	25
June	PF	Improved cultivation practices for important fruit crops	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	Importance & use of sexed semen	1	25		25				25
Agril. Engineering										
Feb.	PF	Operation and maintenance of micro irrigation system	1	23		23	2		2	25
March	PF	Selection and use of improved farm implements and machinery	1	25		25			0	25
May	PF	Rain water harvesting and groundwater recharge techniques	1	23		23	2		2	25
June	PF	Farm machinery and its maintenance	1	20		20	5		5	25
Sept.	PF	Post-harvest technology in agriculture	1	23		23	2		2	25
October	PF	Installation and maintenance of drip irrigation systems in	1	22		22	3		3	25

		horticulture crops								
Dec.	PF	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	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	FW	Drudgery reducing technologies for farm women in agriculture	1		25	25				25
Nov.	FW/RY	Value addition in Anola	1		22	22		3	3	25
Plant Protection										
May	PF	Integrated insect-pest & disease management in *Kharif* crops	1	20		20	5		5	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										
June	PF	Integrated nutrient management in fruit crops	1	25		25				25
July	PF	Management of insect-pest in vegetable crops	1	22		22	3		3	25
August	PF/FW	Bio control of pests in vegetable crops	1	16	3	19	2	4	6	25

October	PF/FW	Seed production techniques in onion	1	18	2	20		5	5	25
Live Stock Production.										
Jan.	PF/FW	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
April	PF/FW	Brucellosis & its prevention in Gir cow	1	12	5	17	7	0	7	25
May	PF	Hemorrhagic Septicemia and its control	1	18	0	18	07	0	07	25
July	PF/FW	Fodder Production Technology	1	17	05	22	03	0	3	25
Sept.	PF/FW	Importance of colostrums feeding in new born calves	1	12	06	18	4	3	7	25
Nov.	PF/FW	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
Agril. Engineering										
Feb.	PF	Farm machinery and its maintenance	1	25		25			0	25
April	PF	Small scale processing and value addition at village level	1	22		22	3		3	25
May	PF	In-situ moisture conservation practices in dry land agriculture	1	22		22	3		3	25
July	PF	Selection and maintenance of plant protection equipment	1	23		23	2		2	25
August	PF	Application of Agri-drone technology in agriculture sector	1	23		23	2		2	25
Sept.	PF	Importance of post-harvest technology and Value addition in agriculture	1	20		20	5		5	25
Nov.	PF	Efficient use of drip irrigation system in *Rabi* crops	1	23		23	2		2	25
Home Science										
January	FW	Value addition in Guava, Custard apple and dragon fruit	1		22	22		3	3	25
April	FW	Drudgery reducing technologies for farm women in agriculture	1		24	24		1	1	25
June	FW	Organic Kitchen gardening & its importance on health	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 bakery products	1		23	23		2	2	25
Plant Protection										
April	PF	Insect- pest and disease management in groundnut	1	25		25				25

June	PF	Management of pink boll worm in cotton	1	20		20	5		5	25
October	PF	Store grain pest management	1	22		22	3		3	25
Nov.	PF	IPM and IDM in Rabi crops	1	20		20	5		5	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 Science	value addition	value addition in millets	May	2		25	25				25
Animal Science	Dairy	Scientific Dairy Farming	Dec.	7	25		25				25
Home Science	Value addition	Preparation and preservation of fruits & vegetables products	Nov.	2		24	24		1	1	25
			Total(4)		**48**	**49**	**57**	**2**	**1**	**3**	**100**

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
Octo.	Anganwadi workers	Layout of Nutrition Garden and importance of kitchen gardening	1	0	22	22	0	3	3	25
July	Ext Workers of DWDU/ATMA	Efficient use of drip irrigation in field and horticulture crops	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	Agri-drone technology in agriculture sector	1	22		22	3		3	25
Agril. Engg.	GGRC	PF	Operation and maintenance of MIS	1	25		25				25
Home Science	ATMA	FW/RY	Preparation of Jam, Squash, Ketchup from fruits	1		25	25				25

Home Science	Reliance foundation, Jasdan	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	4	6
3.	Animal Science	6	8	14
4.	Agril. Engineering	7	7	14
5.	Home science	6	7	13
6.	Plant protection	2	4	6
	Total	**28**	**37**	**65**
1.	Vocational training	2	2	4
2.	In service training	5	1	6
3.	Sponsored Training	4	1	5
	Grand Total	***39***	***41***	***80***

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	Groundnut	GJG-32	NRM	Variety+ INM+ IPM+IDM	Seed – 30 kg *Tricoderma*- 500 gm *Beauveria*- 500 gm PSB-500 ml	Kharif -2024	4.0	10	No. of Pods/Plants Yield, B:C ratio, Farmers perception
2	Groundnut	GJG-22	ICM	IDM	Hexaconazole /Tebuconazole 500 ml/farmer	Kharif -2024	4.0	10	Infestation % of Rust & Tikka disease, Yield, B:C ratio, Farmers perception
3	Cotton	Bt. Cotton	ICM	IPM	Pheromone Trap - 10 No./Farmer Luer-30 No/Farmer	Kharif -2024	4.0	10	No. of damaged Ball per plant, Yield, B:C ratio, Farmers perception
	Cotton	Bt. Cotton	ICM	IPM	Mating Disruption Paste (MDP) 400gm/Farmer	Kharif -2024	2.0	5	No. of damaged ball per plant, Yield, B:C ratio, Farmers perception
4	Chickpea	GG-5/ GJG-6	NRM	Variety (GG-5/GJG-6)	Seed of GG-5/ GJG-6 (25 Kg/ Farmer)	Rabi-2024-25	4.0	10	No. of Pods/Plants Yield, B:C ratio, Farmers

									perception
5	Cumin	GC-4	ICM	IDM (Line sowing for minimizing the wilt diseases infestation)	Seed (6 Kg.) + Mencozeb (500 gm/ farmer) + *Trichoderma* (1 Kg./farmer)	Rabi-2024-25	4.0	10	No. of damaged plants, Yield, B:C ratio, Farmers perception
6	Brinjal	GRB-7	Varietal	Variety GRB-7	Brinjal seed 100 gm/farmer	Rabi-2024-25	2.0	10	Yield, B:C ratio, Farmers perception
7	Seasonal vegetables	-	Kitchen gardening	Health management	Seed of different Veg.	Kharif-2024	-	10	Farm women perception
8	Pearl millet	GHB-1129	ICM	Varietal	Seed of Pearl millet	Summer-2024	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 Chickpea Cumin	2024	25	10	Bio-pesticide (i.e. *Beauveria bassiana*)	Farmers perception, uniformity of spraying, efficient pesticides use and time saving

iii) Livestock Enterprises

Thrust area	Livestock	No. of farmers	No. of animals	Critical inputs	Performance parameters / Indicators
Nutrient Management	Cow	40	40	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 T-2: De-topping at 75 DAS T-3: De-topping of monopodial branches at 75 DAS & 90 DAS	Junagadh Agril. University Junagadh	Seeds of cotton	2.5 kg/ha	1000	3	3000	1. No. of bolls per plant 2. Yield (kg/ha) 3. Cost of cultivation 4. B:C Ratio
2	Groundnut	Deteriorate in yield and quality of groundnut due to higher use of chemical fertilizers and pesticides	Natural Farming in *Kharif* Groundnut	T-1: Farmers practices T-2: Recommended practices T-3: Interpretations	*Prakrutik Krushi* Book by Acharya Devvrat, Hon'ble Governor of Gujarat and JAU, Junagadh	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
3	Cumin	Low yield due to sowing	Performance of drip irrigation	T-1: Broad casting method without drip irrigation (Farmer's practices)	RTTC, JAU, Junagadh	Cumin seed	6 kg	2400	3	7200	Yield, B:C Ratio and farmer's perception

		method and over irrigation	with line sowing method in cumin	T-2: Line sowing (20 cm) with drip irrigation (Recommended technology)							
4	Tomato	Due to sucking pest infestation, yield of tomato is decreased	Response of released new variety of Tomato (GT-6) on leaf curl occurrence and yield	T-1: Sowing of Local Variety + any Pesticides.	Junagadh Agril. University, Junagadh	Tomato seeds Variety GT-6	250 gm	500	3	1500	No. of damaged plants, Yield, B:C ratio, Farmers perception
				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							
				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							
5	Buffalo	Low milk yield & longer inter calving period in buffalo	Chelated mineral mixture, By pass protein and By	T1: Farmers practices (Control)					3		1.Milk yield 2.Postpartum estrus 3 Milk fat
				T2: Fed with 50 gms/day chelated mineral mixture supplementation (Reco.)	NDRI, Kernal, Hariyana	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	

			pass fat for enhancing milk production in buffalo	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
Kisan Mela	3	30000	10000	40000	45	5	50	30045	10005	40050
Kisan Ghosthi	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
Mahila Mandals 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**