II. ACTION PLAN (Apríl-15 to March-16)

Training Programme: Quarter wise Summary

Sr.	Subject	On Campus				Off Campus			G.T.			
No.		I	II	III	IV	T	I	II	III	IV	T	
1.	Crop Production	1	1	1	1	4	2	1	2	1	6	10
2.	Pl. Protection	1	1	1	1	4	2	2	2	2	8	12
3.	Home Science	1	1	1	1	4	1	1	1	1	4	08
4.	Agril. Extension	2	1	2	1	6	2	3	1	1	7	13
5.	Animal Science	1	1	2	1	5	2	2	2	2	8	13
6.	Seed Production	2	0	2	1	5	2	0	2	1	5	10
7.	Horticulture	1	1	0	0	2	0	2	0	1	3	05
8.	Agril. Engineering	1	2	1	1	5	2	0	0	1	3	08
9.	Soil Science	0	1	0	1	2	1	1	0	1	3	05
10	Fisheries	0	0	1	1	2	0	1	1	0	2	04
	Total	10	09	11	09	39	15	13	11	11	49	88

Summary of Training Programme

Sr. No.	Subject	On campus	Off campus	Total
1	Training for F, FW & RY			
1.	Crop Production	4	6	10
2.	Pl. Protection	4	8	12
3.	Home science	4	4	08
4.	Agril. Extension	6	7	13
5.	Animal Science	5	8	13
6.	Seed Production	5	5	10
7.	Horticulture	2	3	05
8.	Agril. Engineering	5	3	08
9.	Soil Science	2	3	05
10.	Fisheries	2	2	04
	Total A	39	49	88
2	Vocational training	05	00	05
3	In-service Training	03	02	05
4	Collaborative/Sponsored	10	10	20
5	ATIC	10	10	20
	GRAND TOTAL	67	71	138

On Campus Training Programme:

Subject	Title of Training	Dura Days	Probable date	No. of parti.	Type of Parti.
I. Quarter : (1st	April to 30th June, 2015)				
Crop Production	• Improved cultivation practices for Cotton and Sesame	2	21/04/15	25	F
Pl. Protection	Importance of bio agents & Seed Treatment in Kharif crops	1	01/06/15	25	FW
Home science	Detergent powder, soap making and phenyl making at household level	2		25	FW
Agril.	ICT in agriculture	1	30/05/15	25	RY
Extension	Organic farming practices	2	03/06/15	25	RY
Animal Science	Care and management of livestock during summer	1	27/05/15	25	FW
Seed Production	• Seeds production technique in Groundnut	1	08/05/15	25	F
	• Seeds production technique in Sesamum	1	17/06/15	25	F
Horticulture	Cultivation of Tomato in Poly house	2	10/04/15	25	F
Agril Eng.	Use of Laser land leveler & Rotavator	1	26/05/15	25	RY
II. Quarter : (1	st July to 30th September, 2015)				
Crop Prod.	Castor production technology	1	22/07/15	25	F
Pl. Protection	Biological & Chemical Control measures for pest and disease of Cotton & Sesamum	1	06/07/15	25	F
Home sci.	Solar Cooker: Uses & Advantages	1	-	25	FW
Agril. Extension	Group dynamics for farmers interest group	1	02/07/15	25	F
Animal Science	Importance and use of green fodder in milk production	1	05/08/15	25	F
Horticulture	Cultivation of Capsicum in Poly house	1	19/07/15	25	F
Soil Science	Balance fertilization & INM in Cotton	1	02/07/15	25	F
Agril Eng.	Micro irrigation systems	2	13/07/15	25	RY
	Practices for Soil moisture conservation	1	15/07/15	25	RY

III. Quarter : (1	st October to 31st December, 2015)				
Crop Production	Improved cultivation practices for wheat & Gram	1	09/10/15	25	F
Pl. Protection	Control measures for pest and disease in Cumin	2	19/10/15	25	F
Home science	Value addition in fruits and vegetables	2		25	RY
Agril. Extension	Effect of global warming and climatic changes in Agriculture	1	15/10/15	25	F
	Formation & Management of SHGs	1	02/12/15	25	RY
Animal	Importance of Artificial Insemination	1	01/10/15	25	RY
Science	Foot & Mouth disease and its control	1	22/12/15	25	F
Seed	Seeds production technique in Cumin	1	05/11/15	25	RY
Production	Seeds production technique in Wheat	1	11/11/15	25	RY
Agril Eng.	Use of improved farm implements	2	26/10/15	25	F
Fisheries	Value addition in Fish	1	17/10/15	25	RY
·	est January to 31st March, 2016)	4	10/01/14	25	
Crop Production	Improved cultivation practices for Summer groundnut and Sesame	1	12/01/16	25	F
Pl. Protection	Precaution while handling pesticides.	1	08/01/16	25	F
Home Sci.	Rural craft for income generation	1		25	FW
Agril. Extension	Entrepreneurial developments for rural youth	2	07/01/16	25	RY
Animal Science	Balanced feeding of pregnant animal	1	25/02/16	25	F
Seed Production	Seeds production technique in Summer Groundnut	1	10/02/16	25	F
Agril Eng.	Introduction and use of Chaff-Cutter	1	20/02/16	25	RY
Fisheries	Fresh water prawn farming	1	19/02/16	25	RY

Off Campus training Programme:

Subject	Title of Training	Dura Days	Probable date	No. of parti.	Type Of Parti.
I. Quarter : (1s	t April to 30th June, 2015)				
Crop Production	Crop Production technology in kharif pulses & Gum guar	1	14/05/15	25	F
	Integrated Nutrient Management in Cotton	1	07/06/15	25	F
Pl.	IPM in Cotton & Sesame	1	08/06/15	25	F
Protection	Importance & uses of bio agents & bio pesticides	1	22/06/15	25	F
Home science	Preparation of Mango pickles, potato and banana wafers	1	-	25	FW
Agril.	Govt. subsidy schemes for farmers	1	02/06/15	25	RY
Extension	Entrepreneurial development of farmers	1	29/06/15	25	RY
Animal	Hemorrhagic Septicemia and its control	1	02/06/15	25	F
Science	Importance of colostrums feeding in new born calves	1	15/06/15	25	F
Seed	Seeds production technique in Sesamum	1	02/06/15	25	F
Production	• Seeds production technique in Groundnut	1	10/06/15	25	F
Agril Eng	Rain water harvesting technology	1	20/06/15	25	RY
	Use of Laser land leveler & Rotavator	1	25/06/15	25	RY
Soil Science	Soil Sampling procedure	1	06/04/15	25	F
II. Quarter : (1	st July to 30th September, 2015)				
Crop Production	Improved cultivation practices for Cumin & Fennel	1	24/09/15	25	F
Pl. Protection	Management of pest & diseases of Vegetables	1	10/07/15	25	F
	IPM in Castor	1	25/08/15	25	F
Home science	Awareness about vaccination in children & Nutrition education	1	_	25	FW
Agril. Extension	Income generation activities for farmers through secondary agri.	1	01/07/15	25	F

	Leadership development	1	12/08/15	25	RY
	WTO & IPR issues	1	11/09/15	25	F
Animal Science	Awareness about control of Mastitis in animal by audio visual aid	1	02/07/15	25	F
	Infertility of cow & buffalo by infectious disease & its prevention	1	13/08/15	25	F
Horticulture	Cultivation of tomato & capsicum in poly house	1	16/07/15	25	F
	Raising of Seedlings of Vegetable crops	1	01/08/15	25	FW
Fisheries	Value addition in Fish	1	06/08/15	25	RY
Soil science	Soil reclamation	1	02/07/15	25	RY
III. Quarter : (1	st October to 31st December, 2015)				
Crop Production	Integrated weed management & water management in major rabi field crops	1	04/11/15	25	F
	Importance & use of bio fertilizers	1	18/11/15	25	F
Pl.	Seeds treatment in Rabi crops	1	06/11/15	25	FW
Protection	Control measures for pest and disease in Rabi crops	1	07/12/15	25	F
Home science	Use of sprouted pulses and protein rich diet for low cost nutrition as well as supplementation	1		25	FW
Agril. Extension	Group dynamics & mobilization to FIGs	1	15/10/15	25	RY
Animal Science	Clean milk production by proper milking, watering & washing	1	16/10/15	25	FW
	Fodder crop production technology	1	22/12/15	25	F
Seed	Seeds production technique in Cumin	1	02/11/15	25	F
Production	Seeds production technique in Wheat	1	13/11/15	25	F
Fisheries	Fresh water prawn farming	1	20/10/15	25	RY

IV. Quarter : (1	st January to 31st March, 2016)				
Crop Production	Efficient water management in summer field crops	1	09/02/16	25	F
P1.	Disease management in cumin	1	20/01/16	25	F
Protection	Importance of Natural enemies	1	08/02/16	25	F
Home science	Value addition in Anola & Preparation of different bakery items	1		25	FW
Agril. Extension	• Government subsidy schemes for farmers	1	02/01/16	25	F
Animal Science	Nutritive deficiency in Infertility problem of Cow & Buffalo	1	12/01/16	25	F
	• Zoonotic disease & its preventive measure	1	16/02/16	25	F
Seed Production	• Seeds production technique in summer Groundnut & summer sesame	1	04/02/16	25	F
Horticulture	Protected Cultivation	1	21/01/16	25	F
Agril Eng.	Uses of Improved farm implements	1	07/01/16	25	F
Soil Science	Preparation of vermi compost & vermi wash	1	10/03/16	25	RY

Vocational Training Programme:

Sr. No.	Discipline	Title of Training	Dura. Days	Type of parti
1	Animal Science	Poultry Rearing	4	RY
		Goat Rearing	4	RY
2	Agril. Ext. / Agril Eng.	Repair & Maintenance of Improved Farm Implements	4	RY
3	Plant Protection	Honey Bee Rearing	4	RY
4	Home Science	Value addition in vegetables	4	RY

Training for Extension Functionaries (In-service):

Sr. No.	Title of Training	Dura. Days	No. of parti.	Type of parti.
1.	Protected cultivation	1	25	Ext Workers
2.	Pre-seasonal training on Kharif crops	1	25	Ext Workers
3.	Pre-seasonal training on Rabi crops	1	25	Ext Workers
4.	Preventive measure and first aid treatment of important disease in dairy animals	1	25	Ext Workers (OFF)
5.	Cotton production technology	1	25	Ext Workers (OFF)

Sponsored Trainings / Collaborative training:

Sr. No.	Sponsored agency	No. of training
1.	ATMA	14
2.	NABARD	03
3.	NGOs	01
4.	DRDA	02

Physical Targets of FLD's to be conducted during 2015-16

Particulars of Season		Crop	Component	Area	No. of
the FLD				(in ha)	Demo.
Oilseeds	Kharif	Groundnut	Variety GJG-9: 30 Kg Rhizobium: 500 ml PSB culture: 500 ml Trichoderma: 1 kg	4	10
		Sesamum	Variety GT-4: 1 Kg Azotobactor: 500 ml PSB culture: 500 ml Beauveria bassiana:1kg	4	10
Pulses	Kharif	Green gram	Variety GM-4: 4 Kg Rhizobium: 500 ml PSB culture: 500 ml	4	10

			Hexaconazole: 250 ml		
	Rabi	Gram	Variety GG-3: 25kg Rhizobium: 500 ml PSB culture: 500 ml Beauveria bassiana:1kg	4	10
Other Crops	Rabi	Cumin	Variety GC-4: 4 kg Azotobactor: 500 ml PSB culture: 500 ml Dithane M-45: 500 gm	8	20
		Wheat	Variety GW-366: 40kg Azotobactor: 500 ml PSB culture: 500 ml	8	20
	Kharif	Cotton	Variety G cot Hy-6 Bt: 450 gm. Azotobactor: 500 ml PSB culture: 500 ml Beauveria bassiana:1kg	10	25
Other Demonstrat	ions				
• Trichoderma culture	Kharif	Groundnut	Castor cake: 100 kg Trichoderma: 2 kg	4	10
NIFTD Project	Season	Crop	Component	Area (in ha)	No. of Demo.
Urea treatment	Rabi	Wheat			11
Forage production under	Kharif	Bajra Napier Hyb	APBN-1 : Root slits	1	5
arable lands	Rabi	Lucerne	L Anand-2: 2 kg	1	5
Forage production under non-arable lands		Ber/Lemon +C. Ciliaris +Stylo			4
	1	TOTAL FLDs		48	140

Physical Targets of OFT's to be conducted during 2015-16:

1. Assessment of sulphur in cumin

Objective	To increase the yield by different sources of Sulphur			
Reason for low	1. Lack of knowledge of Sulphur application.			
yield of Cumin	2. Sulphur deficient soil of district (60% Area)			
	3. Unbalance fertilization.			
Technical	Management of sulphur application in Cumin			
Intervention				
Treatments	1. Farmers practice (Control)			
	(125 kg DAP and 55 kg Urea / ha)			
	2. Recommended dose of fertilizer (30-15-0 NPK kg/ha) throu DAP & Urea (33 kg DAP and 33 kg Urea / ha)			
	3. T-2 + 15 kg Sulphur through Gypsum (33 kg DAP and 33 kg Urea + 100 kg Gypsum / ha)			
	4. Recommended dose of fertilizer (30-15-0 NPK kg/ha) through Ammonium Sulphate & Single Super Phosphate. (94 kg SSP and 142 kg AS / ha)			

2. Management of Mealy bug infestation in Cotton.

Objective	To minimize the incidence of mealy bug in cotton.			
Reason for low yield of Cotton	 Lack of knowledge about the use of particular pesticides. No adoption of recommended practices. Farmers follows instruction given by the local pesticides retailer. 			
Technical Intervention	Management of mealy bug in cotton.			
Treatments	 Farmers practice (Use of conventional insecticides after infestation) Recommended practices: pre-sowing application of Methyl parathion 2% Dust, application of insecticides at the time of infestation & Recommended cultural practices. Dusting of Methyl parathion 2% dust as & when required, application of bio-pesticides (Beaveria spp. or Verticillium spp.) 			

3. Chelated & Area Specific Mineral mixture for dairy buffaloes

Objective	To increase milk yield & regularity of heat			
Reason	1. Low milk production & infertility problems in dairy buffalo			
Technical Intervention	Enhancement of milk production with improve reproductive efficiency			
Treatments	 Farmers practices (Control) Buffalo fed with 50 gms/day mineral mixture supplementation (Reco.) Buffalo fed with 50 gms/day chelated mineral mixture supplementation (Intervention-1) Buffalo fed with 50 gms/day area specific mineral mixture supplementation (Intervention-2) 			
Parameters	 1 Milk yield 2 Postpartum estrus 3 No. of insemination for conception 			

4. Assessment of sulphur in Sesamum

Objective	To increase the yield by different sources of Sulphur		
Reason for low yield of Cumin	 Lack of knowledge of Sulphur application. Sulphur deficient soil of district (60% Area) Unbalance fertilization. 		
Technical Intervention	Management of sulphur application in Sesamum		
Treatments	 Farmers practice (Control) (90 kg DAP +90 kg Urea / ha) Recommended dose of fertilizer (50-25-40 NPK kg/ha) through DAP & Urea+ 20 kg Sulphur through Gypsum (55 kg DAP + 55 kg Urea +66 kg MOP + 100 kg Gypsum / ha) Recommended dose of fertilizer (50-25-40 NPK kg/ha) through Ammonium Sulphate & Single Super Phosphate. (238 kg AS + 156 kg SSP + 66 kg MOP / ha) 		

5. Supplementary feeding for improving production performance of lactating goat (does)

Objective	To increase milk production & weight gain in pre-weaned kid			
Reason	low milk yield , poor weight gain in pre-weaned kids			
Source of technology	Central Institute for research on Goat (CIRG), Makhdoom			
Treatments	 Grazing for 8 hours -Farmers practices (Control) T1 + Concentrate feed 150 gms/day for 3 months T1+ T2 + mineral mixture 10 gm/day + vitamin A,D,E - 2 ml weekly for 2 weeks 			
Parameters	Milk yield (litre) Pre-weaned weight in kid (kg)			

6. Management of sucking pests in Cotton.

Objective	To minimize the incidence of sucking pests in cotton.			
Reason for low yield of Cotton	 Lack of knowledge about the use of particular pesticides. No adoption of recommended practices. Farmers follows instruction given by the local pesticides retailer. 			
Technical Intervention	Management of sucking pests in cotton.			
Treatments	 Farmers practice (Use of conventional insecticides after infestation) Recommended practices Application of the systemic insecticide will be start at pest infestation occurred. (Acetamiprid: 20 SP @ 2 ml/10 litre of water or Imidacloprid: 200 SL @ 4 ml/10 litre or Cartep hydrochloride 50% S.P. @ 10ml/10 Litre of water at the time of infestation.) Beauveria bassiana 5 gm/lit as & when required, application of bio-pesticides + Sticker 0.5 ml/lit of water 			

7. Varietal assessment of Sesamum Guj Til-4 in Surendranagar district

Objective	To increase yield of Sesamum	
Source of technology	Agricultural Research Station, JAU, Amreli	
Treatments	1.Variety: Guj Til-2 OR Local 2.Variety: Guj Til-4	
Parameters	Yield	

8. Assessment of high density planting in Cotton.

Objective	To observe the yield of cotton in High density.				
Reason	Low yield of cotton. Less optimum plant population per unit area.				
Technical Intervention	Management of spacing between row & between plant.				
Treatments	 Recommendation: Sowing of cotton at spacing 120 x 45 cm. (18,518 plants / ha) Intervention: Sowing of cotton at spacing 60 x 30 cm. (55,555 plants / ha) Intervention: Sowing of cotton at spacing 90 x 45 cm. (24,691 plants / ha) 				

Other Extension activities

Particulars	No.	Particulars	No.
Kisan mela	01	Film shows 20	
Field day	20	Exhibition	02
Kisan gosthi	10	News paper coverage	06
Radio / TV talk	04	Popular articles	10
Advisory services	25	Kisan Mahila Meeting	02
Animal treatment camp	12	Celebration of important days / Week 04	
Extension literature		Diagnostic services	
Folder / pamphlets	10	1. Farmers visit to KVK	As & when Required
Night Meeting	15	2. Scientists visit to farmers field	As & when Required

Seeds Production & Planting materials to be produced:

Sr. No.	Name of crop	Variety	Area (ha)	Type of produce	Quantity to be produced (Kg)
1	Ground Nut	GJG-22, GJG-31, GJG-9, GG-2	12	Breeder / TF	6000
2	Sesamum	GT-4,3,	02	Breeder / TF	600
3	Cumin	GC-4	01	TF	300
4	Fruit Crop		03		

	Name of crop	Variety	Seedlings (No)
6	Brinjal	GAO-1, GJB-3	25000
7	Tomato	GJT-1,3	10000
8	Chilly	Vadhwani	10000

Infrastructure needed:

Sr. No.	Particulars	Estimates (Rs.)
1.	Fencing Wall	40,00,000
2.	Laser land leveler	3,00,000
3.	Bore with submersible pump	6,00,000
4.	New Jeep	7,00,000
5.	Mini bus cum demonstration van	12,00,000
6.	Water storage structure (cement concrete)	20,00,000
	TOTAL	88,00,000

Budget Requirement: 2015-16

SN	Items/Head	Grant to be required
	A RECURRING CONTIGENCY	
1	Pay & Allowances	80,00,000
2	Traveling Allowances	3,00,000
3	Contingencies	15,00,000
a.	Stationary, Telephone, Postage and other expenditure on office running	
b.	POL, repair of vehicles, tractor and equipments	
C.	Meals/refreshments of trainees	
d.	Training materials	
e.	Frontline demonstration except oilseeds and pulses	
f.	On farm testing	
g.	Training of extension functionaries	
h.	Maintenance of building	
	TOTAL-A	98,00,000
	B NON-RECURRING CONTIGENCY	
1		88,00,000
	TOTAL-B	
	GRAND TOTAL	1,86,00,000