

Priority Thrust Areas

- Area expansion under high value vegetable crops.
- Pollination management and scientific training & pruning in fruit plants.
- Commercial cultivation of floriculture crops.
- Pollination management and scientific training & pruning in fruit plants.
- Soil health maintenance.
- Integrated disease and pest management in fruits and vegetables.
- Latest rearing techniques in sericulture and aquaculture.
- Cultivation of male poplars under protected conditions.
- Vocational trainings for income generation.

1. Trainings for Farmers/ Farm Women during 2016-17

Thematic area	Crop / Enterprise	Major problem	Training Course Title	No. of Courses	Expected No. of participants
1.1 Crop Production					
	Paddy	Nursery failure	Protected Paddy Nursery	01	25
	Paddy	Low yield due to improper transplanting	Scientific transplanting of Paddy	01	25
	Maize	Diversification of crop	Introduction of sweet corn	01	25
	Maize	Low yield	Scientific cultivation of maize	01	25
	Pulse	Low yield	Scientific cultivation of Pulses	03	25
	Oats	Low yield	Scientific cultivation of oats	01	25
1.2 Plant Protection					
	Apple	SanJose Scale/European Red Mite	Integrated pest management of SJS and ERM.	02	25
	Stone Fruits	Pests	Integrated pest management in stone fruits	01	25
	Apple	Untimely application of fungicides	Importance of timely intervention of diseases.	01	25
	Chilli	Soil borne diseases	Management of chilli wilt and root rot.	01	25
	Vegetables	Pests	Pest management in commercially important vegetables	01	25
	Field Crops	Diseases	Integrated disease management in field crops	01	25

	Field Crops	Unsafe handling of pesticides	Safe handling of fungicides/insecticides	01	25
	Apiculture	Seasonal Migration	Management of honey bee colonies during winter	01	25
	Bee keeping	Lack of awareness	Scientific management of honey bees	01	25
	Mushroom production	Lack of awareness	Cultivation of Dhingri Mushroom	01	25
1.3 Horticulture Production					
	Apple	Low yield	Role of pollinizers and pollinators in fruit plants	01	25
		Maturity standards	Maturity standards and harvesting techniques	01	25
		Marketing standards	Grading and packing of fruits	01	25
		Poor quality fruits	Scientific training and pruning	01	25
	Fruits	Post-harvest management of fruits	Grading, Packing and handling of fruits.	01	25
	Flowers	Lack of awareness	Cultivation of cut flowers under green house conditions	01	25
1.4 Vegetable Sciences					
	Cucurbits	Pollination problem	Pollination Management in Cucurbits	01	25
	Cole Crops	Low production	Nursery raising of Cole Crops for Rabi Vegetables	01	25
	All Vegetables	Nursery failure	Early nursery raising under protected structures	01	25
	Beans	Package of practices not followed	Scientific Cultivation of Beans	01	25

	Spices	Package of practices not followed	Cultivation of spices i.e. Methi and Coriander etc.	01	25
	Vegetable Cops	Hybrid seed production not done	Hybrid seed production in vegetables	01	25
	Potato	Package of practices not followed	Scientific Cultivation of Potato	01	25
	Solanaceous Vegetables	Package of practices not followed	Scientific cultivation of Solanaceous Vegetables	01	25
	Exotic Vegetables	Poor Cultivation	Scientific Cultivation of Exotic Vegetables	01	25
	Garden Pea	Package of practices not followed	Sowing of Garden Pea	01	25
	Root crops	Package of practices not followed	Scientific Cultivation of Root Crops	01	25
		Propagation	Budding and grafting techniques in fruit plants	03	25
1.5 Soil Health and Fertility					
	Pome fruits	Soil sampling	Soil sampling techniques	01	25
	Paddy	Inadequate fertilizer application	Importance of soil test based fertilizer application	01	25
	Maize	Decline in soil organic matter	Soil quality enhancement of intensively cultivated maize fields	01	25
	Maize	Imbalanced fertilizer use and their low use efficiency	Maturing and fertilizer management of improved maize varieties	01	25
	Field crops-oil seeds , paddy	Blanket fertilizer application	Importance of soil testing and demonstration of soil sampling	01	25
	Apple	Blanket fertilizer application	Soil sampling and soil test based fertilizer application	01	25
	Maize	Increasing dependence on mineral fertilizer	INM in rainfed maize on high altitudes.	01	25

	Paddy	Imbalanced fertilizer use and their low use efficiency	Importance of Soil test based fertilizer application in Paddy	01	25
	Vegetables	Improper farm waste disposal	Composting of waste on home scale on vegetable farms.	01	25
	Vegetable, maize and Apple	Lack of soil erosion control on hills	On-field measures to mitigate soil erosion	01	25
		Decline in soil health	Practices for improvement of soil health in orchards	01	25
1.6 Livestock Production/ Fisheries					
	Cattle	Unawareness about care and management	Care and management of new born calf and lactating cows	01	25
	Poultry	Unawareness about vaccination	Vaccination and medication against different diseases	01	25
	Fisheries	Lack of awareness	Latest rearing techniques of aquaculture	01	25
1.7 Home Science					
	Design & development Of low cost diet	Malnutrition among tribal children	Demonstration of iron rich recipes for pregnant/lactating women.	01	25
	Nutrition	Malnutrition	Demonstration on low cost baby foods	01	25
	Value addition	Low shelf life of tomato	Demonstration of tomato puree	01	25
	Cooking Procedures	Faulty Cooking practices	Awareness programme on correct cooking practices	01	25

2. Trainings for Rural Youth during 2016-17

Thematic area	Crop / Enterprise	Major problem	Training Course Title	No. of Courses	Expected No. of participants
2.1 Crop Production					
	Paddy	Nursery Failure	Raising of paddy nursery under protected conditions	01	25
2.2 Plant Protection					
	Cereal crops	Pests	Integrated pest management in cereal crops	01	25
	Bee keeping	Unawareness	Apiculture as an enterprise	01	25
2.3 Production of Inputs at Site					
	Mushroom Production	Unawareness	Methods of mushroom production	01	25
	Field crops-agriculture	Lack of knowledge and skill on low cost composting practices	Training programme on commercial vermicompost production	01	25
	Field crops-agriculture	Lack of knowledge and skill on low cost composting practices	Improved methods of on-farm composting	01	25
2.4 Horticulture Production					
	Fruit Crops	Low Yield	Importance of pollinators and pollinizers in fruit plants	01	25

	Layout	Faulty layout	Scientific layout of orchards	01	25
	Floriculture	Lack of awareness	Cultivation of Lilium on commercial scale	01	25
2.5 Vegetable Sciences					
	Spices	Package of practices not followed	Cultivation of spices i.e. Methi and Coriander etc.	01	25
	Vegetable Cops	Hybrid seed production not done	Hybrid seed production in vegetables	01	25
	Exotic Vegetables	Poor Cultivation	Scientific Cultivation of Exotic Vegetables	01	25
2.6 Agro forestry					
	Poplars	Non-availability of plants	Raising of male poplars under protected conditions	01	25
2.7 Livestock Production					
	Poultry	Poor knowledge about broiler farming	Awareness programme on rearing of poultry units	01	25
2.8 PHT and value addition					
	Vegetables	Lack of knowledge about making of instant pickle	Demonstration on making of vegetables instant pickle	01	25
2.9 Home Science					
	Balanced diet	Lack of awareness about nutritious foods	Importance of balanced diet	01	25

3. Trainings for Extension Personnel during 2016-17

Thematic area	Training Course Titles	No. of Courses	Expected No. of participants
3.1 Crop Production			
	Recent advances in laying of paddy nursery	01	25
	Importance of fertilizer application at critical stages in Paddy, Maize etc.	03	25
	Saffron production technology	01	25
	Scientific cultivation of fodder crops	01	25
	Strategy to produce farmers own seed in paddy	01	25
3.2 Plant Protection			
	Integrated disease management in cereal crops.	01	25
	Management of pests under protected conditions	01	25
	Safe handling of pesticides / fungicides	01	25
	IPM of apple orchards	01	25
3.3 Horticulture			

	Orchard Sanitation	01	25
	Practical demonstration on pruning and training	01	25
	Awareness programme on drip irrigation of high density plantation	01	25
3.4 Vegetables			
	Practical demonstration on Hybrid seed production	01	25
	Awareness programme on cultivation of spices	01	25
3.5 Soil Health and Fertility			
	Importance of soil health in sustainable crop production	01	25
	Soil erosion and its control	01	25
3.6 PHT and value addition			
	Processing and preservation of fruits and vegetables	01	25
3.7 Sericulture			
	Scientific cocoon production	01	25
3.8 Home Science			
	Nutritional requirements during pregnancy and lactation	01	25

4. Vocational trainings during 2016-17

Thematic area	Training title	No. of programmes and Duration (days)	Type of Clientele (SHGs, NYKs, School students, Women, Youth etc.)	Expected No. of participants	Sponsoring agency if any
4.1 Home Science					
	Crochet Designing	01 (10days)	Youth (girls)	25-30	Nil
	Skill development programme on Bakery	01 (07 days)	-do-	25-30	Nil
	Fashion designing	2 months	-do-	25-30	Nil
4.2 Horticulture					
	Scientific training and pruning	03 (03 days)	youth- (boys)	25-30	Nil
	Hybrid seed production in vegetables	01 (05 days)	-do-	15-20	Nil
	Latest techniques and early raising of vegetable seedlings under protected conditions	01s (05 days)	-do-	25-30	Nil
4.3 PHT and Value addition					

	Value addition of vegetables	01 (05 days)	Students/youth-	25-30	Nil
	Value addition of fruits	01 (05 days)	-do-	25-30	Nil
4.4 Soil Health and Fertility					
	Production of vermicompost on commercial scale.	01 (03 days)	youth-	25-30	Nil
	On-farming composting for efficient nutrient cycling in Orchards	01 (03 days)	-do-	25-30	Nil

5. Extension programmes during 2016-17

Extension programme*	No. of programmes or activities	Expected No. of participants
Advisory Services	As per demand	
Diagnostic visits	As per demand	
Field Day	05	150
Kissan Ghosthi	02	50
Film Show	8	250
Kisan Mela	01	300
Exhibition	02	150
Scientists' visit to farmers field	As per demand	
Plant/Soil health/Animal health camps	04	350
Ex-trainees Sammelain	02	60
Method Demonstrations	20	300
Celebration of important days	05	250

Exposure visits	05	100
Technology week	01	50
Plantation Day	01	70
Awareness programme	10	30

6. Details of FLD's proposed/to be implemented during Kharif 2016 & Rabi 2016-17

Crop	Season & Year	Farming Situation	Area/ha	Thematic Area
6.1 Oil Seeds				
Mustard (Brown Sarson)	Rabi 2016-17	Irrigated	03	Crop Production
6.2 Pulses				
Garden Pea	Rabi 2016-17	Irrigated	01	Crop Production
6.3 Other than Oilseeds & Pulses				
Paddy (Jehlum /SR-2)	Kharif 2016	Irrigated	09	Crop Production
Oats	Rabi 2016-17	Irrigated	08	Crop Production
Poultry (Vanraja)			500 Birds	Livestock

7. On Farm Trials to be implemented (2016-17)

Title of the OFT	No. of Trials/Locations	Problem Diagnosed	Technology Assessment	Thematic Area
A study on farmers' practices and recommended nutrient management practices in Maize	02	Low adoption of recommended practices by farmers in hilly areas	T1- Farmers practice (higher Urea, Low P and no K, no/erratic-split application of urea). T2-Recommended NPK application (blanket doses) T3-Soil test based NPK with other recommended practices.	Nutrient use efficiency
Effect of ZnSO ₄ application on paddy in lower belts	02	Zn deficiency in paddy.	T1-Farmers practice (No ZnSO ₄) T2-Farmer practice + ZnSO ₄ T3-Recommended rate (NPK) without ZnSO ₄ T4-Recommended rate (of NPK) with ZnSO ₄	Micro-nutrient deficiency in crops
Effect of bees on yield of apple	02	Poor fruit set	T1- Farmers Practice T2- Bee hives @ 2/ha T3- Bee hives @ 4/ha	Fruit Production
Effect of correct doses of fertilizer on quality of apple	02	Low doses of fertilizer used in orchards	T1- Farmers Practice T2- Urea (2 doses), DAP (Single dose), MOP (2 doses) T3- Urea (3 doses), DAP (Single dose), MOP (3 doses)	Fruit Production

Title of the OFT	No. of Trials/Locations	Problem Diagnosed	Technology Assessment	Thematic Area
Yield Assessment of different varieties of French Bean	02	Low Yield	T1- Contender T2- French Yellow T3- Shalimar Bean-1 (Selection-3)	Crop Production
Revival of Kashmiri Chilli	02	Crop failure	T1- Ridges T2- Raised Bed T3- Flat bed	Crop Production
