

Priority Thrust Areas

- Area expansion under high value vegetable crops.
- Pollination management and scientific training & pruning in fruit plants.
- Commercial cultivation of floriculture crops.
- Soil health maintenance.
- Integrated disease and pest management in fruits and vegetables.
- Popularization of high density apple plantation.
- 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	Duration (Days)	Month
1.1 Crop Production					
	Paddy	Nursery failure	Protected Paddy Nursery	03	March
	Paddy	Low yield due to improper transplanting	Scientific transplanting of Paddy	03	April
	Maize	Diversification of crop	Production technology of sweet corn	03	April/May
	Maize	Low yield	Scientific cultivation of maize	03	April
	Oats	Low yield	Scientific cultivation of oats	03	November
	Paddy		Demonstration on System of Rice Intensification (SR-1)	03	April
1.2 Plant Protection					
	Apple	San Jose Scale/European Red Mite	Importance of HMO's for management of San Jose scale and European red mite.	01	March
	Apple	Pests	Importance of apple spray schedule 2016	01	April
	Vegetables	Pests	Management of cutworm	03	April
	Brinjal Tomato	Diseases	Management of brinjal and tomato fruit borer	03	June
	Chilli	Soil born diseases	Management of chilli wilt and root rot	03	April
	Field Crops	Unsafe handling of pesticides	Pesticide application and bio safety.	03	April

	Apple		Rodent management in orchards	03	May
	Bee keeping	Seasonal migration	Scientific management of honey be colonies	03	May
	Mushroom production	Lack of awareness	Cultivation of Dhingri mushroom	03	June
1.3 Horticulture Production					
	Apple	Low yield	Role of pollinizers and pollinators in fruit plants	03	March
	Apple	Maturity standards	Maturity standards and harvesting techniques	03	August
	Apple	Marketing standards	Grading and packing of fruits	03	September
	Apple	Poor quality fruits	Scientific training and pruning	05	November/ December
	Flowers	Lack of awareness	Cultivation of cut flowers under green house conditions	03	May
	Fruit Plants	Unawareness of propagation	Budding and grafting techniques in fruit plants	03	February
	Floriculture	Unawareness	Entrepreneurship development in floriculture crops	03	April
1.4 Vegetable Sciences					
	Cucurbits	Pollination problem	Pollination Management in Cucurbits	03	June
	All Vegetables	Nursery failure	Early nursery raising under protected structures	03	February
	Beans	Package of practices not followed	Scientific Cultivation of Beans	03	May
	Vegetables	Lack of Knowledge	Preparation of Kitchen Gardens	03	March

	Spices	Package of practices not followed	Cultivation of spices i.e. Methi and Coriander etc.	03	September
	Vegetable Cops	Hybrid seed production not done	Hybrid seed production in vegetables	03	July
	Solanaceous Vegetables	Package of practices not followed	Scientific cultivation of Solanaceous Vegetables	03	April
	Exotic Vegetables	Poor Cultivation	Scientific Cultivation of Exotic Vegetables	03	October
	Root crops	Package of practices not followed	Scientific Cultivation of Root Crops	03	August
1.5 Soil Health and Fertility					
	Pome fruits	Soil sampling	Soil sampling techniques	03	December
	Paddy	Inadequate fertilizer application	Importance of soil test based fertilizer application	03	April
	Maize	Decline in soil organic matter	Soil quality enhancement of intensively cultivated maize fields	03	May
	Maize	Imbalanced fertilizer use and their low use efficiency	Maturing and fertilizer management of improved maize varieties	03	April
	Field crops-oil seeds , paddy	Blanket fertilizer application	Importance of soil testing and demonstration of soil sampling	03	September
	Fruit Crops	Unawareness about symptoms about nutrient deficiency	Nutrient deficiency symptoms in fruit crops	03	July
	Maize	Increasing dependence on mineral fertilizer	INM in rainfed maize on high altitudes.	03	April
	Vegetables	Improper farm waste disposal	Composting of waste on home scale on vegetable farms.	03	August
	Vegetable, maize and Apple	Lack of soil erosion control on hills	On-field measures to mitigate soil erosion	03	May
		Decline in soil health	Practices for improvement of soil health in orchards	03	June

1.6 Livestock Production/ Fisheries					
	Cattle	Unawareness about care and management	Care and management of new born calf and lactating cows	03	December
	Poultry	Unawareness about vaccination	Vaccination and medication against different diseases	03	June
	Fisheries	Lack of awareness	Latest rearing techniques of aquaculture	03	October
1.7 Home Science					
	Eatables	Wastage of Leftovers	Programme on leftover foods	03	April
	Vegetables	Unawareness about value addition	Preservation of vegetables	05	May
	Fruits	Unawareness about value addition	Preservation of seasonal fruits	03	June

2. Trainings for Rural Youth during 2016-17

Thematic area	Crop / Enterprise	Major problem	Training Course Title	Duration (Days)	Month
2.1 Crop Production					
	Paddy	Nursery Failure	Raising of paddy nursery under protected conditions	03	April
2.2 Plant Protection					
	Cereal crops	Pests	Integrated pest management in rice and maize	03	May
	Bee keeping	Unawareness	Apiculture as an enterprise	03	June

	Mushroom production	Lack of awareness	Methods of mushroom production	03	June
2.3 Production of Inputs at Site					
	Composting	Lack of knowledge and skill on low cost composting practices	Training programme on commercial vermicompost production	03	August
	Composting	Lack of knowledge and skill on low cost composting practices	Improved methods of on-farm composting	03	September
2.4 Horticulture Production					
	Fruit Crops	Low Yield	Importance of pollinators and pollinizers in fruit plants	03	March
	Fruit Crops	Faulty layout	Scientific layout of orchards	03	November
	Floriculture	Lack of awareness	Commercial cultivation of pot flowers.	03	April
2.5 Vegetable Sciences					
	Spices	Package of practices not followed	Cultivation of spices i.e. Methi and Coriander etc.	03	September
	Vegetable Cops	Hybrid seed production not done	Hybrid seed production in vegetables	03	June
	Exotic Vegetables	Poor Cultivation	Scientific Cultivation of Exotic Vegetables	03	October
2.6 Agro forestry					
	Poplars	Non-availability of plants	Raising of male poplars under protected conditions	03	March
2.7 Livestock Production					
	Poultry	Poor knowledge about broiler farming	Awareness programme on rearing of poultry units	03	August
2.8 PHT and Value addition					

	Vegetables	Lack of knowledge about making of pickle	Demonstration on making of mixed vegetable pickle.	03	September
2.9 Home Science					
	Flower	Lack of Knowledge	Dehydration of flowers	07	July
	Strawberry	Low shelflife of Strawberry	Value addition of Strawberry	05	June
	Craft	Lack of Expertise	Demonstration of handmade crafts/Decorative Items	10	March

3. Trainings for Extension Personnel during 2016-17

Thematic area	Training Course Titles	Duration (Days)	Month
3.1 Crop Production			
	Recent advances in laying of paddy nursery	01	April
	Importance of fertilizer application at critical stages in Paddy, Maize etc.	01	April
	Saffron production technology	01	September
	Scientific cultivation of fodder crops	01	October
	Strategy to produce farmers own seed in paddy	01	August
3.2 Plant Protection			
	Apple spray schedule 2016 and its importance & bio safety.	01	March

3.3 Horticulture			
	Orchard Sanitation	01	November
	Practical demonstration on pruning and training	03	December
	Awareness programme on drip irrigation of high density plantation	01	June
3.4 Vegetables			
	Practical demonstration on Hybrid seed production	01	July
3.5 Soil Health and Fertility			
	Importance of soil health in sustainable crop production	01	June
	Soil erosion and its control	01	August
3.6 PHT and value addition			
	Processing and preservation of fruits and vegetables	01	September
3.7 Sericulture			
	Scientific cocoon production	01	May
3.8 Home Science			
	Fabric Painting	05	November

	Need based programme with RSETI	05	September
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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.)	Month
4.1 Home Science				
	Skill development programme on Jute bags	01 (15 days)	Women/girls	August
	Skill development programme on Willow Wicker	01 (01 Month)	-do-	December
	Skill development programme for decoration on formal occasions (Marriages/Parties/Official Functions)	01 (15 days)	Women/girls	January
4.2 Horticulture				
	Scientific training and pruning	03 (03 days)	youth- (boys)	October
	Hybrid seed production in vegetables	01 (05 days)	-do-	July
	Latest techniques and early raising of vegetable seedlings under protected conditions	01 (05 days)	-do-	December
4.3 PHT and Value addition				

	Value addition of vegetables	01 (03 days)	Students/youth-	August
	Value addition of fruits	02 (03 days)	-do-	September
	Scientific handling of walnuts for export trade.	01 (02 days)	-do-	October
4.4 Soil Health and Fertility				
	Production of vermicompost on commercial scale.	01 (03 days)	youth-	September
	On-farming composting for efficient nutrient cycling in Orchards	01 (03 days)	-do-	July

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/rainfed	08	Crop Production
Poultry (Krioler)			1000 Birds	Livestock
Poplars			100 Plants	Forestry

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
Effect of Boron and Calcium on Cherry Cracking	03	Rain Cracking and Fruit drop in Cherries	T1-Farmers Practice T2- 1 st Spray of Boric acid @ 1.5 g/lit of water (Bud	

			<p>Spell)</p> <p>T3- 2nd Spray of Boric acid @ 2.0 g/lit of water, 15 to 20 days after petal fall,</p> <p>T4- 3rd Spray of Boric acid @ 2.5 g/lit of water, 15 to 20 days after 2nd Spray</p> <p>T5- 4th Spray of calcium chloride @ 3.0 g/lit of water (peanut stage)</p> <p>T6- 5th Spray of calcium chloride @ 3.5 g/lit of water 15 to 20 days after 4th Spray</p> <p>T7- 6th spray of calcium chloride @ 3.5 g/lit of water 15 to 20 days after 5th Spray</p>	
Yield Assessment of different varieties of Okra	02	Low Yield	T1- Pusa Sawani T2- SKBS-11	Crop Production
Yield performance of different varieties of Coriander and Methi	02	Low Yield	T1- Local T2- SHDH-1	Crop Production