

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 management and soil conservation.
- Integrated farming system.
- Integrated disease and pest management in fruits and vegetables.
- Income generating activities for farmers/ farm women.
- To provide quality seed and nursery to farmers.
- Safe storage and value addition of farm produce
- Vocational trainings for income generation.

Prioritized Problems

- Popularization of High Density Plantation
- Pollination Management
- Cultivation of Exotic Vegetables
- Quality Seed Production
- Apiculture and Mushroom as an enterprise
- Income generating Activities
- Integrated Diseases and Pest Management of Fruits and Vegetables
- Soil Health Management

1. Trainings for Farmers/ Farm Women during 2017-18

Thematic area	Crop / Enterprise	Major problem	Training Course Title	Duration (Days)	Month
1.1 Crop Production					
	Paddy	Nursery failure	Latest techniques of Paddy Nursery raising (Mat, SRI and Protected)	03	March
	Paddy	Low yield due to improper transplanting	Scientific transplanting of Paddy (Mechanized, SRI)	03	April
	Pluses	Low yield	Scientific cultivation of Pulses	03	April
	Maize	Low yield	Scientific cultivation of maize	03	April
	Maize	Diversification of crops	Production technology of specialty corn (Baby, Sweet and Pop)	03	May
	Oats	Low yield	Scientific cultivation of oats	03	October
1.2 Plant Protection					
	Fruits	Pest infestation	Integrated pest management of temperate fruits.	03	March
	Chemicals	Unawareness	Safe handling of pesticides	03	March
	Fruits	Disease	Disease management of temperate fruits.	03	April
	Vegetables	Diseases	Common diseases of solanaceous crops and their management.	03	April
	Cereal crops	pest	Diseases and pest management of important cereal crops.	03	May
	Vegetables	Diseases	Disease and pest management of cucurbitaceous and cole crops.	03	July

	Mushroom production	Lack of awareness	Cultivation of Dhingri mushroom	03	June
	Bee keeping	Seasonal migration	Scientific management of honey bee colonies	03	November
1.3 Horticulture Production					
	Fruit Plants	Unawareness	Grafting techniques in fruit plants	03	February
	Apple	Low yield	Importance of pollination in fruit plants	03	February
	Strawberry	Lack of awareness	Scientific cultivation of strawberry	03	March
	Cherry	Cracking	Management of cherry cracking	03	April
	Fruit Plants	Unawareness of propagation	Budding techniques in fruit plants	03	July
	Apple	Maturity standards	Maturity standards and harvesting techniques	03	August
	Apple	Marketing standards	Grading , packing and handling of fruits	03	September
	Apple	Poor quality fruits	Scientific training and pruning	05	November/ December

1.4 Vegetable Sciences					
	Vegetable	Nursery failure due to low temperature	Early nursery raising under protected structures (Polyhouses, poly tunnels, clutches, hot beds)	03	February
	Vegetable	Transplanting shock	Precautions during transplanting of vegetable seedlings	03	March

	Vegetables	Lack of Knowledge for domestic raising of vegetables.	Awareness and layout of Kitchen Gardens	03	April
	Solanaceous Vegetables	Package of practices not followed	Scientific cultivation of Solanaceous Vegetables	03	April
	Beans	Package of practices not followed	Scientific Cultivation of Legumes	03	May
	Cucurbits	Pollination problem	Pollination Management in Cucurbits	03	June
	Vegetable Crops	Farmers not producing their own seed	Seed production of vegetable crops	03	July & November
	Vegetable Crops	Hybrid seed production not done	Hybrid seed production in vegetables	03	July
	Root crops	Package of practices not followed	Scientific Cultivation of Root Crops	03	August
	Spices	Package of practices not followed	Awareness & Cultivation of spices	03	September
	Exotic Vegetables	Poor Cultivation	Popularization & Cultivation of Exotic Vegetables	03	October
1.5 Soil Health and Fertility					
	Field Crops	Imbalance fertilizer application	Importance of soil test based fertilizer application	03	April
	Field Crops	Insufficient manure/fertilizer use and their low use efficiency	Manuring and fertilizer management of field crop	03	April
	Maize	Nutrient Management Problems	INM in rainfed maize at high altitudes.	03	April
	Field/Vegetable/Fruit crops	Unawareness about bio-fertilizers	Importance of bio-fertilizers in maintaining soil health	03	May
	Maize	Poor soil quality at high altitudes	Soil quality enhancement of intensively cultivated maize fields	03	May

	Fruit Crops	Improper application of nutrients	Role of leaf analysis	03	June/July
	Fruit Crops	Unawareness about symptoms and nutrient deficiencies	Nutrient deficiency symptoms in fruit crops especially cherry/apple	03	May/July
	Vegetables	Improper farm waste disposal	Composting of waste on vegetable farms.	03	March/ May/August
	Pome fruits	Soil sampling	Importance of soil testing and demonstration of soil sampling	03	August/September
1.6 Livestock Production/ Fisheries					
	Poultry	Unawareness about vaccination	Vaccination and medication against different diseases	03	June
	Fisheries	Lack of awareness	Latest rearing techniques of aquaculture	03	October
	Cattle	Unawareness about care and management	Care and management of new born calf and lactating cows	03	December
1.7 Home Science					
	Eatables	Wastage of Leftover food	Training Programme on leftover foods(Vegetable cutlets,Misi roti, Fried rice and papad)	05	April
	Drudgery reduction	Time consuming	Lectures/demonstration on drudgery reduction.	02	June

2. Trainings for Rural Youth during 2017-18

Thematic area	Crop / Enterprise	Major problem	Training Course Title	Duration (Days)	Month
2.1 Crop Production					
	Paddy	Nursery Failure	Latest techniques of Paddy Nursery raising (Mat, SRI and Protected)	03	April
2.2 Plant Protection					
	Fruits	Unawareness	Importance and preparation of Diesel Oil Emulsion	03	February
	Seed storage	Stored grain pests	Management of stored grain pests.	03	May
	Bee keeping	Unawareness	Rearing and management of honey bees for honey production and pollination.	03	June
	Mushroom production	Lack of awareness	Methods of mushroom production	03	July
	Sericulture	Unawareness	Rearing and management of silk worms.		July
2.3 Production of Inputs at Site					
	Composting	Lack of knowledge and skill on low cost composting practices	On farm composting through improved techniques	03	May
	Composting	Lack of Knowledge	Composting of Dal Weed	03	August
	Composting	Lack of knowledge and skill on low cost composting practices	Training programme on commercial vermicompost production	03	September

2.4 Horticulture Production					
	Fruit Crops	Unawareness	Scientific Cultivation of Strawberry	03	February
	Fruit Crops	Faulty practices	Nursery raising techniques in fruit crops	03	November
	Fruit Crops	Low Yield	Scientific Training and Pruning	07	November
	Fruit Crops	Faulty layout	Scientific layout of orchards	03	December
	Fruit Crops	Pollination Problem	Hands on training youth for skill development in bee keeping and pollination	03	March
2.5 Vegetable Sciences					
	Vegetable Cops	Hybrid seed production not done	Hybrid seed production of Solanaceous vegetables	07	July
	Exotic Vegetables	Poor Cultivation	Popularization & Cultivation of Exotic Vegetables	03	August
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 improved poultry breeds.	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					

	Home made products	Unhealthy looks	Training Programme on herbal homemade facials	10	May
	Craft	Unemployment youth/ dropouts	Skill development training on fabric painting	20	Sep./October

3. Trainings for Extension Personnel during 2017-18

Thematic area	Training Course Titles	Duration (Days)	Month
3.1 Crop Production			
	Latest techniques of Paddy Nursery raising (Mat, SRI and Protected)	03	April
	Production technology of High Value Cash Crops (Saffron, Kalazeera, Saunf, Condiments)	03	July
	Strategy to produce farmers own seed in Paddy and Fodder crops	03	June and September
3.2 Plant Protection			
	Apple spray schedule 2017 and its importance & bio safety.	01	March
	Impact of weather factors on disease and pests.	01	April
	Importance of timely intervention for disease control.	01	April
3.3 Horticulture			
	Importance of drip irrigation on high density plantation	01	June
	Practical demonstration on pruning and training	03	December

	Importance of Pollination	01	April
3.4 Vegetables			
	Management of vegetables under protected conditions	03	February
	Practical demonstration on Hybrid seed production	03	July
3.5 Soil Health and Fertility			
	Vermiculture and its importance	01	June
	Composting of dal weed	01	August
	Site specific nutrient management.	03	September
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			
	Value addition of vegetables/ fruits	05	October
	Training Programme on low cost recipe	05	November

	House hold food security	01	June
	Women and child care	01	August
	Low cost and nutrient efficient diet designing	01	October
3.9 Extension Education	Formation and management of SHG,s	01	May
	Group dynamics and farmers organization	01	June
	Information networking among farmers	01	July
	Capacity building for ICT application	01	August
	Care and management of farm machinery and implement's.	01	September
	WTOs and IPR issues.	01	October
3.10 Livestock	Management of farm animals	01	June

4. Vocational trainings during 2017-18

Thematic area	Training title	No. of programmes and Duration (days)	Type of Clientele (SHGs, NYKs, School students, Women, Youth)	Month
4.1 Home Science				
	Vocational Training Programme on packed lunches	01 (15 days)	Women/girls	September

	Vocational Training Programme on bakery items	01 (15 days)	Women/girls	October
4.2 Horticulture				
	Latest techniques and early raising of exotic vegetables	01 (05 days)	-do-	February
	Hybrid seed production in vegetables	01 (07 days)	-do-	July
	Scientific training and pruning	07 (07 days)	youth- (boys)	October
4.3 PHT and Value addition				
	Value addition in vegetables	01 (03 days)	Students/youth-	August
	Value addition in fruits	02 (03 days)	-do-	September
	Scientific handling of walnuts for export trade.	01 (02 days)	-do-	October
4.4 Soil Health and Fertility				
	On-farming composting for efficient nutrient cycling	02 (03 days)	-do-	July
	Production of vermin-compost and dal weed compost on commercial scale.	02 (03 days)	Youth	September
	Kitchen/farm waste management	05 days	Farm Women and Farmers	October

5. Extension programmes during 2017-18

Extension programme*	No. of programmes or activities	Expected No. of participants
Advisory Services	As per demand	
Diagnostic visits	As per demand	
Field Day	08	200
Kissan Ghosthi	01	30
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	300
Ex-trainees Sammelain	01	20
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 2017 & Rabi 2017-18

Crop	Season & Year	Farming Situation	Area/ha	Thematic Area
6.1 Oil Seeds				
Mustard (Brown Sarson)	Rabi 2017-18	Irrigated/Rainfed	15	Crop Production
6.2 Pulses				
Pulses (Moong and Beans)	Kharief 2017 Rabi 2017-18	Irrigated/Rainfed Irrigated/Rainfed	01 01	Crop Production
6.3 Other than Oilseeds & Pulses				
Paddy (SR-2 & Jhelum)	Kharif 2017	Irrigated	01 09	Crop Production
Maize (C4 & C3)	Kharif 2017	Rainfed	03	
Oats (SRO-90,SRO-96 & SRO-108)	Rabi 2017-18	Irrigated/rainfed	08	Crop Production
Poultry	2017-18		700 birds	Improved breeds
Crop	Prioritized problem	Technology to be demonstrated	Source of technology	Parameters to be studied
Apple	Diseases/Insect pests	Demonstration on spray schedule	SKUAST-K	Disease and pest status

7. On Farm Trials to be implemented (2017-18)

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 Brown sarson	02	Low adoption of soil test based recommended practices by farmers	T1- Farmers practice T2-Recommended NPK application T3-Soil test based NPK.	Nutrient use efficiency
Effect of Boron on yield and quality of saffron.	02	Poor quality low yield.	T1-Farmers practice T2-Recommended NPK T3-Recommended NPK + 0.15% boron	Micro-nutrient management.
Effect of mineral mixture on milk production in cross bred milch animals.	02	Low milk yield	T1- Farmers practice T2-Agrimin forte @25 g/animal/day orally for 3 months. T3- Agromin forte @25g orally/animal/day + Inj. Tonophosphate -5 ml/animal/week for 3 months.	Animal Production

Effect of Boron and Calcium on Cherry Cracking	03	Rain Cracking and Fruit drop in Cherries	T1-Farmers Practice T2- 1 st Boron spray @ 1.5 g/lit of water (Bud Stage) T3- 2 nd Boron spray @ 2.0 g/lit of water,15 to 20 days after petal fall. T4- 3 rd Calcium spray @ 3.0 g/lit of water 15 to 20 days after 2 nd spray. T5- 4 th Calcium spray @ 3.5 g/lit of water 15 to 20 days after 3 rd spray.	Fruit Production
--	----	--	---	------------------

Varietal Assessment of different varieties of Okra	02	Low Yield	T1- Pusa Sawani T2- SKBS-11	Parameters: 1. Plant height at 50% flowering 2. No. of branches/plant 3. Pod length (cm) 4. Pod diameter (cm) 5. No. of pods/plant 6. Pod weight (g) 7. Yield (kg/plot)
Effect of different bedding material on yield of leafy vegetables in floating gardens.	02	Yield assessment	T1- Soil medium on wooden logs. T2- Soil medium on bamboos T3- Soil medium on typha grass.	Parameters: 1. Yield (g/plot)

Strawberry cultivation on floating gardens	02	Yield Assessment	T1: Farmers practice T2: Soil medium on bamboos T3- Soil medium on typha grass.	Parameters: 1. No. of runners. 2. Yield (kg/plot)
--	----	------------------	---	--