

**KRISHI VIGYAN KENDRA, AMBALA**

**ACTION PLAN (2017-18)**

**SOCIETY FOR CREATION OF HEAVEN ON EARTH**  
**Village Tepla, Post Saha, District Ambala (Haryana)**  
**Ph.No.0171-2822522**

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## **ACTION PLAN – 2017-18**

### **I. Thrust Areas**

- ✓ Promotion of RCTs to gain high return
- ✓ Integrated crop management
- ✓ Promote diversification in rice-wheat cropping system through pulses
- ✓ Promotion of oilseed crops
- ✓ Conservation of Resources to gain high returned from farming
- ✓ Popularizing sustainable farming system by introducing oilseed and pulse crops
- ✓ Promote integrated farming system through inter-cropping
- ✓ Enhancement of crop productivity with nutrient, Insect-pest and Weed management
- ✓ Diversification in Farming through Horti-Agro-Forestry Crops
- ✓ Improvement in housing, feeding, breeding, fertility and other health management in dairy animals through knowledge up-gradation
- ✓ Self-employment through Livestock and other allied agricultural vocational training
- ✓ Socio-economic up-liftment of rural community through formation of Kisan Clubs, SHG & Cooperative Societies
- ✓ Women empowerment through knowledge & skill upgradation

## II. TRAINING PROGRAMMES AT A GLANCE

S. No.	Discipline	No. of Courses	No. of Participants		Total
			Male	Female	
<b>A</b>	<b>PRACTISING FARMERS</b>				
i	Agronomy	11	170	--	170
ii	Agricultural Engineering	11	185	--	185
iii	Plant Protection	12	170	--	170
iv	Horticulture	14	210	--	210
v	Animal Husbandry	7	102	--	102
vi	Home Science	12	--	227	227
vii	Agricultural Extension	4	45	15	60
	<b>Total (PF)</b>	<b>71</b>	<b>882</b>	<b>242</b>	<b>1124</b>
<b>B</b>	<b>RURAL YOUTHS</b>				
i	Agronomy	3	40	--	40
ii	Agricultural Engineering	1	15	--	15
iii	Plant Protection	2	70	--	70
iv	Horticulture	1	10	--	10
v	Animal Husbandry	7	260	--	260
vi	Home Science	8	--	210	210
vii	Agricultural Extension	1	20	--	20
	<b>Total (RF)</b>	<b>21</b>	<b>390</b>	<b>210</b>	<b>600</b>
<b>C</b>	<b>EXTENSION FUNCTIONARIES</b>				
i	Agronomy	1	15	--	15
ii	Agricultural Engineering	1	15	--	15
iii	Plant Protection	1	10	--	10
iv	Horticulture	1	10	--	10
v	Animal Husbandry	--	--	--	--
vi	Home Science	1	--	20	20
	<b>Total (EF)</b>	<b>5</b>	<b>50</b>	<b>20</b>	<b>70</b>

### III. (A) Training for Farmers/ Farm Women during 2017-18

S.No.	Course Title	Tentative Date	No. of Courses	Participants	Venue
<b>I</b>	<b>AGRONOMY</b>				
1	Promotion of pulse crop through inter-cropping	10.9.17	1	15	
2	Integrated Weed Management	15.6.17	1	15	
3	Improvement in soil properties by incorporating crop residues	20.10.17	1	20	
4	Importance & micronutrient in oilseed crops	20.2.18	1	20	
5	Importance of micronutrient in wheat & rice	25.10.17 15.7.17	2	30	
6	Weed management in spring maize	10.3.18	1	15	
7	Best management practices for toria	10.10.17	1	15	
8	Best management practices for Sunflower	20.2.18	1	15	
9	Precision Nutrient Management in rice & wheat	20.7.17,25.12.17	2	35	
	<b>Total</b>		<b>11</b>	<b>170</b>	
<b>II</b>	<b>AGRICULTURAL ENGINEERING</b>				
1	Method of taking soil samples and importance of its analysis	15.5.17	1	15	
2	Importance, timing and quantity of Gypsum application for management of Alkali soils	20.5.17	1	15	
3	Gypsum application in wheat for management of High RSC water : its importance, quantity and timing of application	30.10.17	1	20	
4	Gypsum application in Sugarcane for management of sodicity hazard	10.2.18	1	15	
5	Zero tillage seed drill : its calibration operation and maintenance	1.11.17	1	15	
6	Calibration, operation and maintenance of DSR drill	1.6.17	1	15	
7	Role of better field preparation and method of operation of M.B.Plough and Sub-soiler in Sugarcane cultivation	10.2.18	1	20	
8	Safe operation and maintenance of submersible tubewell and pumping sets	10.7.17	1	15	
9	Size, selection and importance of underground pipeline for irrigation	7.7.17	1	15	
10	Importance of Soil testing based fertilizer application in Sugarcane	1.2.18	1	15	
11	Improved agricultural machinery for residue management of different crops	15.10.17	1	20	
	<b>Total</b>		<b>11</b>	<b>180</b>	

S.No.	Course Title	Tentative Date	No. of Courses	Participants	Venue
<b>III</b>	<b>PLANT PROTECTION</b>				
1	Integrated Pest Management of Plant hopper in Rice	15.8.17	1	15	
2	Seed Treatment of Wheat Crop	10.11.17	1	15	
3	Integrated Disease Management of Wheat crop	10.12.17	1	12	
4	Integrated Pest & Disease Management of Fodder crops	10.2.18	1	12	
5	Integrated Disease Management of YVMV in Mungbean	20.5.17	1	15	
6	Integrated Pest Management of Black bug in Sugarcane	10.3.18	1	12	
7	Integrated Disease Management of Sheath blight in Rice	20.7.17	1	14	
8	Seed Treatment of Rice crop	25.5.17	1	15	
9	Integrated Pest Management of Aphid in Wheat Crop	10.1.18	1	15	
10	Integrated Pest Management of Bihar Hairy Caterpillar in Wheat Crop	15.1.18	1	15	
11	Integrated Disease Management of Sunflower	15.5.17	1	15	
12	Integrated Disease Management of Tomato	10.1.18	1	15	
	<b>Total</b>		<b>12</b>	<b>170</b>	
<b>IV</b>	<b>HORTICULTURE</b>				
1	Integrated Crop Management in Palak	12.9.17	1	20	
2	Nursery Management in Tomato	1.9.17 5.9.17	1	20	
3	Integrated Disease & Pest Management in Tomato	18.10.17	1	15	
4	Nursery Management in Onion	15.12.17	1	15	
5	Integrated Disease & Pest Management in Onion	16.12.17	1	15	
6	Integrated Crop Management in Potato	28.10.17	1	15	
7	Application of Plant Growth Regulator in Muskmelon	2.3.2018	1	15	
8	Integrated Disease & Pest Management in Muskmelon	3.3.2018	1	15	
9	Integrated Crop Management in Tinda( Squash melon)	15.3.18	1	15	
10	Organic farming in vegetable crops	7.7.17 14.7.17	2	30	
11	Balanced application of fertilizer in vegetable crops	10.4.17 17.4.17	2	20	
12	Integrated Crop Management in Okra	--	1	15	
	<b>Total</b>		<b>14</b>	<b>210</b>	

S.No.	Course Title	Tentative Date	No. of Courses	Participants	Venue
<b>V</b>	<b>ANIMAL SCIENCE</b>				
1	Management of dairy animals in summer season	10.05.17	1	15	Off campus
2	Management of Backyard poultry	30.05.17	1	12	Off campus
3	Control of ecto-endo parasites in dairy animals	5.06.17	1	15	Off campus
4	Management of repeat breeding in dairy animals	12.07.17	1	10	Off campus
5	Care and management of newly born calves	8.08.17	1	15	Off campus
6	Balance feeding for pregnant animals	25.09.17	1	15	Off campus
7	Control of mastitis in dairy animals	16.10.17	1	20	Off campus
	<b>Total</b>		<b>7</b>	<b>102</b>	
<b>VI</b>	<b>HOME SCIENCE</b>				
1	Household food security by promotion of Terrace gardening with Vermi compost in Urban area	11.7.17	1	28	
2	Household food security by promotion of Nutrition garden with Vermi compost in rural area	3.1.18	1	28	
3	Balanced diet and nutritional deficiency of children	6.9.17 16.10.17	2	20 20	
4	Minimization of nutrient loss while cooking	15.11.17	1	27	
5	Personal hygiene and household sanitation	9.5.17 2.6.17	2	37	
6	Drudgery reducing technique in household & agricultural works	20.7.17 13.10.17 8.3.18	3	15 15 17	
7	Storage loss minimization techniques	26.4.17	1	10	
8	Knowledge upgradation of resource conservation techniques	22.8.17	1	10	
	<b>Total</b>		<b>12</b>	<b>227</b>	
<b>VII</b>	<b>AGRICULTURAL EXTENSION</b>				
1	Leadership development	2	25	5	
2	Group dynamics	1	10	5	
3	Formation and Management of SHGs	1	10	5	
	<b>Total</b>	<b>4</b>	<b>45</b>	<b>15</b>	

### III. (B) Training for Rural Youth during 2017-18

S.No.	Training Course Title	Tentative Date	No. of Courses	Expected participants	Venue
<b>I.</b>	<b>AGRONOMY</b>				
1	Seed production of field crops	1	20-10-17	20	KVK
2	Resource Conservation Technologies	1	4-11-17	20	KVK
	<b>Total</b>	<b>2</b>		<b>40</b>	
<b>II.</b>	<b>AGRIL.ENGG.</b>				
1	Repair and maintenance of tractor and other agricultural implements	1	5.12.17	20	KVK
	<b>Total</b>	<b>1</b>		<b>20</b>	
<b>III.</b>	<b>PLANT PROTECTION</b>				
1	Mushroom techniques in employment	1	20.9.17	20	KVK
2	Bee-keeping	1	10.10.17	20	KVK
	<b>Total</b>	<b>2</b>		<b>40</b>	
<b>IV.</b>	<b>HORTICULTURE</b>				
1	Propagation techniques in fruits and flower crops	1	5.8.17 to 8.8.17	15	KVK
<b>IV.</b>	<b>ANIMAL SCIENCE</b>				
1	Commercial Dairy farming	11-17 April 2017 18-24 May 2017 16-22 Oct. 2017	3	125	KVK
2	Commercial Pig farming	9-15 may 2017 14-20 Nov. 2017	2	85	KVK
3	Poultry Production & Management	14-17 Aug. 2017	1	30	KVK
4	Commercial Goat farming	10-13 July 2017	1	20	KVK
	<b>Total</b>		<b>7</b>	<b>260</b>	
<b>V.</b>	<b>HOME SCIENCE</b>				
	Empowerment of farm women through Skill upgradation technique				
1	Fruit & Vegetable preservation	17-21 July,17	2	15	Off campus
2	Dairy products	25-29 Sept.,17	1	15	Off campus
3	Stitching & Embroidery on garments	May-Aug.17	1	20	KVK
4	Art & craft item preparation	1-5 Aug.17	1	50	KVK
	a. Rakhi making				
	b.Candle making				
	c.Tie & dye technique in cloths				
	<b>Total</b>		<b>5</b>	<b>100</b>	
<b>VI.</b>	<b>AGRICULTURAL EXTENSION</b>				
1	Vermi Compost	--	1	15	



### III. (C) Training for Extension Functionaries during 2017-18

S.No.	Training Course Title**	Dated	No. of Courses	Expected No. of participants
1	<b>Agronomy</b>			10
	Importance of RCTs	1.9.2017	1	
2	<b>Agricultural Engineering</b>			
	Recent agricultural machineries for Natural Resource Management and labour saving and reducing cost of cultivation	--	1	10
3	<b>Plant Protection</b> Harmful effect of high doses of pesticide	4.1.2018	1	15
4	<b>Horticulture</b> Protected cultivation in vegetables and flower crops	9.1.2018	1	10
5	<b>Animal Science</b>			
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6	<b>Home Science</b> “Learning by doing” for pre-school children through teaching aids (Aanganwadi workers)	13.9.2017	1	20

### III. (D) SPONSORED TRAINING

Training Course Title	No. of Courses	
Cutting & Tailoring	1	NYK/Govt. Polytechnic
Poultry Production	2	CPDO
Leadership Development / Capacity Building	1	NYK

#### IV. EXTENSION ACTIVITIES

<b>Activities</b>	<b>No.</b>
Advisory Services	500
Diagnostic visits	200
Field Day (Summer Moong, Wheat, Rice-2, Sugarcane, Spring Maize, Potato, Tomato, Cauliflower, Onion, Sunflower etc. )	11
Rabi Gosthi & Kharif Gosthi	2
Film Show	10
Kisan Mela (to be attended )	3
Exhibition /Competition	3
Plant/ Soil health /Animal health /Health & Sanitation camp	5
Farm Science Club	2
Self -help groups	2
SMS	50
Advisory Services	500
Ex-trainees Sammelan	2
Farmers' Seminar/workshop	1
Method Demonstrations	8
Exposure visits	5
Technology week	1
Special day celebrations	9
Farm innovators meet/Awareness/Campaign	8
Van-mahotsav	1
Lecture delivered	10
Publication Research Papers, Research Articles, Literature, Magazine, Success Story, Case Study etc.	10
PRA	5
Swachhta Abhiyan (Rally, Vermi compost, Competition , Lectures, Awareness etc.)	7

## V. FARMER SERVICE CENTRE

Category	Name of the product	Quantity (qtl.)/No.
Seeds	Paddy (PB-1121,PR-121)	30 qtl.
	Wheat (HD-2967,HD-3086)	150 qtl
	Sugarcane (CoJ-85, Co-0238,Co5011)	2000 qtl.
Plants	Mango (Sapling)–(Dasherri,Langra, Ramkela, Amarpali,Mallika)	200 No.
	Lemon (Baramasi)	100 No.
	Poplar (G-48)	1000 No.
Bio-products	Vermi-compost	100 qtl.
Livestock	Piglets (Large White Yorkshire)	120 No.
	Goat Kids ( Barbari)	10
	Back-yard Poultry Birds (Vanraja/Chabro)	800

INTEGRATED FARMING SYSTEM	
Proposed activities	
Agronomy	Wheat/Paddy/Sugarcane
Hort.	Poplar/ Eucalyptus
Piggery	Piglets
Fishery	Fingerlings
Fodder	Sorghum & Berseem

## VI. SELECTION OF FARM FAMILIES:

50 for Intensive/Integrated Agriculture activities.

## VII. FRONT LINE DEMONSTRATIONS (2017-18)

### I. AGRONOMY

Crop	Problem	Technology to be demonstrated	Area (ha.)	Demo	C.I.
<b>Wheat</b> ( <i>Triticum aestivum</i> )	-Low yield due to Yellow rust -Lack of awareness resistant varieties	Recommended improved variety (PBW-677) in Wheat	4	10	<ul style="list-style-type: none"> <li>• Seed</li> <li>• ZnSO<sub>4</sub></li> </ul>
<b>Mungbean</b> ( <i>Phaseolus aureus</i> )	-Low productivity & fertility due to rice-wheat cropping system -Lack of diversification	Recommended improved variety of Pulse crop (Mungbean)	30	75	<ul style="list-style-type: none"> <li>•Seed</li> <li>•ZnSO<sub>4</sub></li> <li>•Herbicides</li> <li>•Seed Treatment (Rhizobium)</li> </ul>
<b>Chickpea</b> ( <i>Cicer arietinum</i> )	-Low yield of exist variety -Lack of awareness for new variety	Recommended improved variety of Pulse crop (Chickpea)	20	50	<ul style="list-style-type: none"> <li>•Herbicides</li> <li>•Seed ,ZnSO<sub>4</sub></li> <li>•Herbicides</li> <li>•Pesticides</li> </ul>
<b>Lentil</b> ( <i>Lens culinaris</i> )	Low yield of exist variety -Lack of awareness for new variety	Recommended improved variety of Pulse crop (Lentil)	10	25	Seed
<b>Mustard</b> ( <i>B. juncea</i> )	-Low yield of exist variety -Lack of awareness improved package of practices	Recommended variety of oilseed (Mustard)	30	75	<ul style="list-style-type: none"> <li>• Seed</li> </ul>
<b>Total</b>				<b>235</b>	

## II. AGRICULTURAL ENGINEERING

Enterprises	Problem	Technology to be Demonstrated	Area (ha.)	Demo	C.I.
<b>Farm Machinery (Sugarcane)</b>	Low yield due to poor field preparation with Disc harrow/ Rotavator	M.B.Plough and sub-soiler for field preparation in Sugarcane cultivation	4	10	-Sub-soiler -M.B.Plough -Zinc sulphate Iron sulphate
<b>Farm Machinery (Wheat)</b>	High water consumption, high cost of cultivation and low yield in conventional sowing	Zero-tillage seed drill in Wheat	4	10	-Seed - Chloropyriphos 20 EC
<b>Gypsum (Paddy)</b>	High soil pH, low infiltration rate and low yield due to less nitrogen use efficiency	Gypsum application for management of alkali soil for yield enhancement in Paddy	4	10	-Gypsum
<b>Gypsum (Wheat)</b>	Low yield due to use of high RSC water, which deteriorates soil structure and results in poor aeration and poor nutrient and water availability to plants roots	Gypsum application for management of High RSC water for yield enhancement in Wheat	4	10	-Gypsum
<b>Best Fertilizer application practices in Sugarcane (INM)</b>	Low yield due to imbalance use of fertilizers	Soil testing based fertilizer application in Sugarcane	4	10	-Micronutrients and Bio-fertilizer
<b>Total</b>				50	

Enterprise	Problem	Technology to be demonstrated	Area (ha.)	Demo	C.I.
DSR Drill (paddy)	-High labour input -High water consumption -Deterioration in soil properties	<ul style="list-style-type: none"> <li>• <b>Method Demo</b> (Package of practice of Direct Seeded Rice)</li> <li>• <b>Training</b> : Calibration, operation and maintenance of DSR drill</li> </ul>	40.0	100	-DSR drill -Advisory
Happy Seeder (Wheat)	-High labour input in residue management -Deterioration in soil properties due to residue farming	<ul style="list-style-type: none"> <li>• <b>Method Demo</b> (Direct drilling of Wheat into stubbles of Paddy with Happy Seeder)</li> <li>• <b>Training</b></li> </ul>	4.0	10	-Happy Seeder -Advisory

### III. PLANT PROTECTION

<b>Crop</b>	<b>Problem</b>	<b>Technology to be demonstrated</b>	<b>Area (ha.)</b>	<b>Demo</b>	<b>C.I.</b>
<b>Wheat</b> <i>(Triticum aestivum)</i>	-Incidence of Yellow rust -Unawareness about seed treatment	Plant protection measures against Yellow rust of Wheat	4.0	10	Propiconozal 25 EC (200 ml) PAU
<b>Rice</b> ( <i>Oryza sativa</i> )	Attack of Insect Pest	Plant protection measures to control of Plant hopper in Rice	4.0	10	Imidacloprid 17.8 SL (40 ml) PAU
<b>Sugarcane</b> ( <i>Saccharum officinarum</i> )	Attack of Insect Pest	Plant protection measures to control of Black bug in Sugarcane	4.0	10	Phenthoate(Phendal)50 EC (400 ml) CCSHAU
<b>Berseem</b> ( <i>Teijalium alexandounum L.</i> )	-Incidence of disease -Un-awareness about treatment	Plant protection measures against Stem rot of Berseem	4.0	10	Bavistin 50 WP (400 gm) PAU
<b>Mung-bean</b> ( <i>Vigna radiota</i> )	-Incidence of disease -Unawareness about treatment	Plant protection measures against Yellow mosaic virus of Mungbean	4.0	10	Triazophos 40 EC (600 ml ) PAU
<b>Total</b>				<b>50</b>	

#### IV. HORTICULTURE

Crop	Problem	Technology to be demonstrated	Area (ha.)	Demo	C.I.
<b>Palak (<i>Beta vulgaris</i>)</b>	Low yield due to lack of awareness about improved variety	Demonstration of Improved variety –Pusa Bharti (Palak)	4.0	10	<ul style="list-style-type: none"> <li>• Seed</li> </ul>
<b>Tomato (<i>Lycopersicon esculentum</i>)</b>	Low yield due to imbalance used growth regulator, weedicides & insecticide	Integrated Crop Management on Tomato	4.0	10	<ul style="list-style-type: none"> <li>• Booster</li> <li>• Mancozeb</li> <li>• Cypermethrin</li> </ul>
<b>Rabi Onion +Sugarcane (<i>Allium cepa</i>)</b>	Low yield due to poor management and unjudicious use of input when intercropped with Sugarcane	Integrated Crop Management of Rabi Onion intercropped with Sugarcane	4.0	10	<ul style="list-style-type: none"> <li>• Cypermethrin</li> <li>• Mancozeb</li> </ul>
<b>Potato (<i>Solanum tuberosum</i> L.)</b>	Lack of awareness regarding late blight disease and weed management in potato	Integrated Crop Management in Potato	4.0	10	<ul style="list-style-type: none"> <li>• Mancozeb</li> <li>• Stomp</li> </ul>
<b>Muskmelon (<i>Cucumis melo</i>) + Sugarcane</b>	Cultivation of Muskmelon is less remunerative as a sole crop due to Biotic & Abiotic stresses	Integrated Crop Management in Muskmelon intercropped with Sugarcane	4.0	10	<ul style="list-style-type: none"> <li>• Ethereal</li> <li>• Sulphur</li> <li>• M-45</li> <li>• Cypermethrin</li> </ul>
<b>Squash melon (<i>Citrullus vulgaris</i>)</b>	Low yield due to lack of awareness about improved variety	Improved variety of H.T-10 (Squash melon)	4.0	10	<ul style="list-style-type: none"> <li>• Seed</li> </ul>
<b>Total</b>				<b>60</b>	<ul style="list-style-type: none"> <li>•</li> </ul>

### V. ANIMAL SCIENCE

Livestock/Enterprises	Problem	Technology to be Demonstrated	Demo.No.	C.I.
Dairy Animals	Low milk yield Anoestrus Repeat breeding	Supplementation of mineral mixture (Dairy animals)	20	Mineral mixture
Dairy Animals	Higher infestation of parasite (Tick/lice)	Application of Deltamethrin for control of parasites in Dairy animals	15	Deltamethrin
Fodder	Low yield of old variety	Demo. Of Maize Var. J1006	10	Seed of J1006 Var.
Poultry	Low egg production of desi birds	Introduction of RIR Srinidhi//Vanraja poultry breeds	10	RIR/Vanraja/CARI Nirbhik chicks
Pig	High cost of pig feed	Supplementation of DDGs in pig ration	10	DDGS
<b>Total</b>			<b>65</b>	

### VI. HOME SCIENCE

Enterprises	Problem	Technology to be Demonstrated	Demo.No.	C.I.
House keeping	Hike in price & pesticide residues found in fruit & vegetables	Terrace & nutrition garden with vermi compost	10	Veg. Seed & Vermi compost
House keeping	Difficulty in hand pricking of Aonla (Hand injury)	Demonstration on drudgery reducing technique for Aonla pricking	15	Aonal pricking machine
House keeping	Poor nutrition status	Demonstration on Value added products of Mushroom	20	Mushroom
<b>Total</b>			<b>45</b>	



## VII. ON FARM TRIAL ( No.)

Sr. No.	Discipline	Title
1	Agronomy	Comparative performance of Wheat sowing with different methods
		Yield assessment of new Paddy variety PR-126
2	Agri. Engg.	Comparative assessment of different levelling techniques for water management in Paddy (DSR) (IInd year )
		Evaluation of Soil amendments for management of sodic soil in Sugarcane
3	Plant Protection	Assessment of different insecticides against Head borer pest in Sunflower
		Assessment of different fungicides against False smut in Rice
4	Horticulture	Yield Assessment of Okra variety Pusa A- 4 in Ambala.
		Assessment of different herbicide for weed control in onion
5	Animal Husbandry	Evaluation of Narmada Nidhi Chicken
		Effect of sire on growth performance of lambs
		Evaluation of Srinidhi dual purpose chicken
		Evaluation of Berseem variety (BL-42)
6	Home Science	Assessment of value added products of pulses & cereals (IInd Year)
		Development & nutritional evaluation of multigrain flour
		Effectiveness of Extension methods for promotions of Processing of Vegetables for value addition as an income generating activity among farm women

## DETAILS OF OFT

### Agronomy (OFT: 1)

Title	Comparative performance of Wheat sowing with different methods
Problem	Low yield due to late sowing of wheat under long duration Basmati area
Treatments	T <sub>1</sub> – Conventional method (F.P.) T <sub>2</sub> – ZT (CCSHAU) -Rec. T <sub>3</sub> – Relay seeding (Ass.)
Inputs / Material	1. Seeds (10 kg) 2. Chloropyriphos (60 ml), 3. Zinc sulphate (10 kg./acre)
Area	3.6 ha
Replication	3
Methodology	1. Selection of farmers 2. Sowing of crop 3. Harvesting of Crop
Observation/ Parameter to be studied	- No of tillers/ m <sup>2</sup> - Yield (qtl/ha)
Total Cost	
Analysis of Data	

### Agronomy (OFT: 2)

Title	Yield assessment of new Paddy variety PR-126
Problem	Long duration of existing varieties
Treatments	T <sub>1</sub> – P.R.114 (F.P.) T <sub>2</sub> – P.R.-124 (PAU) - Rec. T <sub>3</sub> – P.R.-126 (PAU)-Ass
Inputs / Material	1. Seeds - 36 kg 2. Zinc sulphate – 60 kg (21%) 3. Seed Treatment (Bavistin & Streptocycline)
Area	3.6 ha
Replication	3
Methodology	1. Selection of farmers 2. Sowing of crop 3. Harvesting of Crop
Observation/ Parameter to be studied	1. No of tillers/ m <sup>2</sup> 2. Yield(qtl/ha)
Total Cost	10500
Analysis of Data	

### **Agricultural Engineering (OFT: 1)**

Title	Comparative assessment of different leveling techniques for water management in paddy (Direct Seeded Rice) <b>II<sup>nd</sup> Year</b>
Problem	Depletion of ground water table due to high water consumption in conventional leveling techniques in paddy
Treatments	T1- Conventional leveling – F.P. T2- Laser land leveling – recomm. -PAU T3- Leser land leveling with slope –Ass.
Parameter of Assessment	1. No. of Irrigation 2. Depth of irrigation (cm) 3. Yield (qtl./ha) 4. Water Productivity (kg/cm)
Inputs / Material	Seed – P.R.124 (50 kg)
Area	3.6 ha.
Replications	3
Total cost	Rs.10500

### **Agricultural Engineering (OFT: 2)**

Title	Evaluation of Soil amendments for management of sodic soil in Sugarcane
Problem	Less yield due to sodicity hazard
Treatments	T <sub>1</sub> –No Gypsum application (F.P.) T <sub>2</sub> –Gypsum application (PAU) – Ass. T <sub>3</sub> — Gypsum +FYM application (20 ton/ha) Ass.
Parameter of Assessment	1. Soil pH before sowing and after harvesting 2. Plant height (m) 1. Yield (qt/ha)
Inputs / Material	1. Gypsum
Area	3.6 ha
Replications	3
Total cost	

**Plant Protection (OFT: 1)**

Title	Assessment of different insecticides against Head borer pest in Sunflower
Problem	Low yield due to infestation of Head borer
Treatments	T <sub>1</sub> - Foliar application of Dursban (Chlorpyrifos ) 20 EC @ 1 lit. in 100 liter of water per acre - (F.P.) T <sub>2</sub> - Foliar application of Acephate -75 SP @ 800 gm in 100 liter of water per acre - Rec. (PAU) T <sub>3</sub> - Foliar application of Quinalphose (Akalox)-25 EC @ 600 ml. in 200 liter of water – Ass (CCSHAU)
Inputs / Material	- Acephate - 800 gm - Quinalphose – 600 ml
Area	3.6 ha
Replication	3
Methodology	1. Selection of farmers 2. Sowing of crop 3. Harvesting of Crop
Observation/ Parameter to be studied	1. Yield (qtl./ha) 2. Head borer infestation(%)
Total Cost	
Analysis of Data	

**Plant Protection (OFT: 2)**

Title	Assessment of different fungicides against False smut in Rice
Problem	Low yield due to incidence of False Smut
Treatments	T <sub>1</sub> - Nil (F.P.) T <sub>2</sub> - I. Spray : Blitox-50WP @ 500 gm/200 lit.of water of booting stage + II Spray : Tilt ( Propiconazole) 25 EC @ 200 ml/ 200 liter of water after 10 days interval (Rec. ) PAU T <sub>3</sub> - Blitox 50WP @ 500 g/200 lit. water at 50% emergence of ear (Ass) (CCSHAU)
Inputs / Material	- Blitox - 1 kg. - Tilt - 200 ml
Area	3.6 ha
Replication	3
Methodology	1. Selection of farmers 2. Sowing of crop 3. Harvesting of Crop
Observation/ Parameter to be studied	- Yield (qtl./ha) - False smut incidence (%)
Total Cost	
Analysis of Data	

### Horticulture (OFT: 1)

Title	Yield Assessment of Okra variety Pusa A- 4 in Ambala
Problem	Low yield due to YVMV disease
Treatments	T <sub>1</sub> – Hybrid (F.P.) T <sub>2</sub> – Punjab- 8 (PAU)– Rec. T <sub>3</sub> - Pusa A- 4 (IARI)- Ass.
Inputs / Material	Seeds
Area	1.2 ha
Replications	3
Methodology	-Selection of farmers -Sowing of crop -Harvesting of Crop
Observation/ Parameter to be studied	-Yield (qtl/ha.) -Resistance to YVMV (yes/no)
Total cost	
Analysis of Data	Data will be statistically analyzed for its further recommendation and extension

### Horticulture (OFT: 2)

Title	<b>Assessment of different herbicide for weed control in onion</b>
Problem	Low yield due to poor weed management
Treatments	T <sub>1</sub> – Pendamethilin 1.5 lit./acre (F.P.) T <sub>2</sub> – Basalin (Fluchloralin) (CCSHAU)– Rec. T <sub>3</sub> - Goal (Oxyfluorfen) 340 gm/acre ) - Ass.
Inputs / Material	Goal and Basalin
Area	3.6
Replications	3
Methodology	-Selection of farmers -Sowing of crop -Harvesting of Crop
Observation/ Parameter to be studied	<ul style="list-style-type: none"><li>- Weed intensity (M<sup>2</sup>)</li><li>- Yield (qtl/ha.)</li><li>- B.C.Ratio</li></ul>
Total cost	
Analysis of Data	

### Animal Science (OFT: 1)

Title	Evaluation of Narmada Nidhi Chicken
Problem	Poor egg production of desi/local birds
Treatments	T1 : Desi birds - FP T2 : Srinidhi- Rec. (DPR, Hyderabad) T3 : Narmada Nidhi - Ass.(NDUVS) Jabalpur
Inputs / Material	- Narmada Nidhi chicks (1-month old)
Area	100 Birds
Replications	3
Parameter of Assessment	- Age at Ist laying(days) - Egg Production (No.)
Total cost	Cost (Rs.) - 5000-6000

### Animal Science (OFT:2)

Title	Evaluation of Srinidhi dual purpose chicken
Problem	1. Poor egg production performance of desi bird
Treatments	T1 : Desi birds – F.P. T2 : Chabro – Recomm. (CPDO, CHD) T3 : Srinidhi – Assessment (DPR,Hydrabad))
Inputs / Material	Chicks of srinidhi breed
Area	100 birds
Replications	3
Parameter of Assessment	1. Age of 1 <sup>st</sup> Laying 2. Egg Production (Nos.)
Total cost	3000-4000

**Animal Science (OFT: 3)**

Title	Effect of sire on growth performance of lambs
Problem	1. Poor growth performance of lambs 2. Poor wool quality
Treatments	T <sub>1</sub> : Breeding with desi sire(F.P.) T <sub>2</sub> : Breeding with Muzzafarnagri sire (DUVASU, Mathura) – recommendation T <sub>3</sub> : Breeding with crossbred sire (CSBF, Hisar)- Assessment
Inputs / Material	Crossbred ram(3)
Area	150 sheep
Replications	3
Parameter of Assessment	1. Body weight (kg) 2. Wool quality (Fiber diameter)
Total cost	15000

**Animal Science (OFT:4)**

Title	Evaluation of Berseem variety (BL-42)
Problem	Poor yield of old variety
Treatments	T <sub>1</sub> : Old variety (F.P.) T <sub>2</sub> : Miskavi (PAU,Ludhiana) – recommendation T <sub>3</sub> : BL-42 (PAU,Ludhiana)- Assessment
Inputs / Material	BL-42 Seed
Area	3 acre
Replications	3
Parameter of Assessment	1. No. of cutting 2. Fodder yield
Total cost	Rs.7000-8000/-

**Home Science (OFT: 1)**

Title	Assessment of value added products of pulses & cereals
Problem	-Unawareness regarding dehydrated products of Moong Dal -Poor nutritional status -Un-employment
Treatments	T <sub>1</sub> –Rice (Papad, Wadiya) (F.P.) T <sub>2</sub> –Urd Dal (Papad, Wadia )- Rec (PAU) T <sub>3</sub> –Moong dal (Papad, Wadia) – Ass. (CCSHAU)
Inputs / Material	Dal & spices
Area	3 groups
Replications	3
Methodology	Selection of farm women
Observation/ Parameter to be studied	- Cost (Rs.) - Nutritional Status (Protein, Carbohydrate, Calories etc.) - Sensory evaluation (5 Nos ) Colour, Flavour, Taste, Texture, Overall acceptability
Total cost	1500

**Home Science (OFT: 2)**

Title	Effectiveness of Extension methods for promotion of processing of Vegetables for value addition as an income generating activity among farm women
Problem	Less remunerable price & post harvest losses
Treatments	T <sub>1</sub> –Lecture (F.P.) T <sub>2</sub> –Lecture + Audio visual aid (VCD) Rec.(CCSHAU) T <sub>3</sub> –Lecture + Demo.+VCD - Ass. (CCSHAU)
Inputs / Material	VCD
Area	30 families
Replications	3
Methodology	-Selection of Farm women
Observation/ Parameter	Gain in knowledge

**Home Science (OFT: 3)**

Title	Development & nutritional evaluation of multigrain flour
Problem	Poor nutritional status
Treatments	T <sub>1</sub> –Wheat Flour (F.P.) T <sub>2</sub> –Multigrain mix (Corn+defatted Soya flour) (Guru Gobind Vidyapith,New Delhi ) – Rec. T <sub>3</sub> –Multi whole grain (Wheat,Barley,Bajra,Maize,Soyabean, Fenugreek- Ass. )
Inputs / Material	Different grains
Area	1 village
Replications	3
Methodology	Selection of Farm women
Observation/ Parameter	-Acceptability -Sensory evaluation (Texture, Colour,Taste) -Nutritional evaluation (Kcal, Protein, Fat,Carb,Minral)



