

# ACTION PLAN

## (Jan., 2024 to Dec., 2024)

### 1. GENERAL INFORMATION ABOUT THE KVK

#### 1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E-mail	Website
	Office	Fax		
Krishi Vigyan Kendra Babugarh, Hapur (U.P.) - 245101	-	-	hapurkvk@gmail.com	www.hapur.kvk4.in

#### 1.2 .a. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E-mail	Website
	Office	FAX		
S.V.P.U. & T. Meerut (U.P.) - 250110	0121- 2888540  2888511	0121- 2888540		www.svpmeerut.ac.in

1.2.b. Status of KVK website : Yes([hapur.kvk4.in](http://hapur.kvk4.in))

1.2. c. No. of Visitors (Hits) to your KVK website (as on today) :1014

1.2.d. Status of ICT Lab at your KVK : No

- a) No. of PC units : 01
- b) No. of Printers : 01
- c) Internet connection : Yes

#### 1.3. Name of the Sr. Scientist & Head with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	E-mail
Dr. Arvind kumar	-	9410443028	hapurkvk@gmail.com

1.4. Year of sanction: 2018(ICAR, Letter No.A.Extn.7/4/2016-AE-II 08June 2018)

### 1.5. Staff Position (as on 31<sup>st</sup> Aug. 2023)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay scale (Rs.)	Grade pay	Present Basic	Date of Joining	Permanent / Temporary	Category	Mobile No.	Email id	Please attach recent photograph
1.	Sr. Scientist & Head	Dr .Arvind Kumar	Assoc. Dir.Ext./ Assoc Professor and Officer Incharge	Plant Protection	37400-67400	9000	156900	10.12.03	Permanent	OBC	+91-9410443028	arvidkvk@rediffmail.com	
2.	Subject Matter Specialist	Dr. P. K. Madke	SMS/Asst. Prof	A.H & Dairying	15600-39100	8000	101100	27.06.08	Permanent	SC	+91-9012439468	madkepramod55@gmail.com	
3.	Subject Matter Specialist	Dr. Virendra Pal	SMS/Asst. Prof.	Horticulture	15600-39100	8000	101100	20-08-2008	Permanent	OBC	9456662212	<a href="mailto:dvgangwar77@gmail.com">dvgangwar77@gmail.com</a>	
4.	Subject Matter Specialist	Dr. Vinita Singh	SMS	Home sci.	15600-39100	5400	57800	11.07.22	Permanent	SC	8840836503	vinitasrbhu13@gmail.com	
5.	Subject Matter Specialist	Dr. Neelam	SMS	Agri. Ext.	15600-39100	5400	57800	01.09.22	Permanent	SC	7494865713	kumarineelam440@gmail.com	
6.	Subject Matter Specialist		SMS	Vacant.	15600-39100								
7.	Subject Matter Specialist		SMS	Vacant.	15600-39100								

8.	Farm Manager	Dr. Ashok	Farm Manager	Soil Science	9300-34800	-	58600	30-7-2007	Permanent	Gen.	9412405845	drashoksengar123@gmail.com	
9.	Prog. Assistant	Sri. Nagendra Pratap Singh	Prog. Assistant	Computer	9300-34800	-	58600	01-09-2007	Permanent	SC	+91-9412060554	nagendrapratap1973@gmail.com	
10.	Prog. Assistant	Smt. Akansha Chauhan	Prog. Assistant /Lab technician		9300-34800	-	44900	11.04.16	Permanent	Gen.	+91-9758093880	aku12akanshal@gmail.com	
11.	Accountant / Superintendent	Sri. P.K. Agarwal	Accountant / Superintendent	Accounts	9300-34800	Addi. charge	56900	26.12.08	Permanent	Gen	+91-9456255103		
12.	Stenographer/ computer operator	Sh. Yogendra kumar Sharma	Stenographer/ computer operator	-	5200-20200		44100	27.07.07	Permanent	Gen	+91-9456687355	sharmayks71@gmail.com	
13.	Driver	Shri Mukesh Kumar	Driver	Driver	5200-20200	-	39200	08.12.13	Permanent	SC	+91-9458739410	mukeshkumarkvk1011@gmail.com	
14.	Driver	Vacant	Driver	Vacant		-							
15.	Supporting staff	Shri T.B.Ale	Supporting staff	Cook	2550-3290	-	38600	01.07.19 88	Permanent	Gen.	+91 9997611921		
16.	Supporting staff	Vacant	Supporting staff	-	-	-							

**1.6. Total land with KVK (in ha): 12.0**

S. No.	Item	Area (ha)
1	Under Buildings (Adim. + Farmer's Hostel + Residence + Demonstration Units)	1.5
2.	Under Crops	9.4
3.	Barran Land (Problematic & sodicity)	0.5
4.	Orchard/Agro-forestry	0.6
5.	Land encroachment	-
5.	<b>Total</b>	<b>12.0</b>

**1.7. Infrastructural Development:**

**A) Buildings**

S. No .	Name of building	Source of funding	Stage						Requ ired Now	Nee ds ren ovat ion		
			Complete			Incomplete						
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction				
1.	Administrative Building	ICAR		510				Completed.				
2.	Farmers Hostel	ICAR		300								
3.	Staff Quarters (6)	ICAR		431								
4.	Demonstration Units (2)	ICAR		160								
5	Fencing	ICAR		2000 R/M								
6	Rain Water harvesting system	-	-	-								
7	Threshing floor	ICAR		300								
8	Farm godown	ICAR		60								
9	Irrigation Channel	ICAR		1000 M								

**B) Vehicles - NA**

Type of vehicle	Year of purchase	Cost (Rs.) Lac	Total kms. Run	Present status
Tractor	Transfer from KVK GB Nagar	-	261 hours	Not Working condition
Bolero Jeep	March 2022	8.0	18000	Working
Motor cycle				

**C) Equipments & AV aids - NA**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
L.C.D. Projector			
U.P.S.			
Solar (Lalten)			
Electric Pedestral Fan			
Pedestral Fan			
11 cultivator			
14 Tawa Harrow			
Leveller			
Nepseeke Spray (Plastic)			
Foot Sprayer			
Disk Bund Farmer			
Seed Drill			
Hand Rotary Fan			
Trailer for Tractor			
Hand Vinoi Fan			
S.D. Memory cord of LCD with Recorder			
Solar domestic light (Model IV)			
Computer & Printer	March 2022	0.50	Working

**1.8. A). Details of SAC meetings to be conducted in the year**

Sl.No.	Date
1.	Scientific Advisory Committee 08 Nov, 2023

## **2. DETAILS OF MICRO-FARMING SITUATIONS OF THE DISTRICT**

### **2.1 Micro-farming situations**

#### **a) Characteristics**

S. No.	Agro-Ecological situations (AES)	Existing Farming System (Crop + livestock + others)	Major soil types
1	I- Western plain zone of the district (Hapur, Gharmukteshwar, Dholana,)	Paddy, wheat, sugarcane+ Poplar+ A.H. (Cow, buffalo)	-Loam and clay loam with high fertility - medium rainfall
2	II. Western Plain zone/ Central east southern region of the district (Simbhawali)	Paddy, wheat, potato, sugarcane, Cabbage, mustard-based systems + horticulture + A.H.	-Sandy loam to loam soil of medium fertility - medium rainfall
3	III. Western plain zone/ central region of the district (Gharmukteshwar)	Paddy, wheat, sugarcane, Cabbage based systems + poplar + A.H.+ Hort.	-Sandy loam to loam and clay soil of medium fertility - medium rainfall

#### **b) Land Characteristics**

S.No	Agro-Ecological Situation (AES)	Topography	Drainage
1.	<b>AES-1</b> (Hapur, Gharmukteshwar, Dholana,)	The soils of this AES are loam, clay loam and are generally fertile. Some parts in this AES are low lying where pulse crop is cultivated in Kharif. This AES is mainly irrigated by Gang canal and quality of water is suitable for irrigation.	Some parts in this AES are low lying hence conditions like waterlog prevailed during rains. Drainage is a problem in some part of the AES.
2.	<b>AES-2</b> (Simbhawali)	The soils of this AES are generally loam, sandy loam but not too fertile because of salinity & alkalinity. The quality of water is also varies and do not suitable for irrigation due to high concentration of salt. Some part of this AES are also affected with the spillover of waste water from Simbhawali sugar mill in drainage.	The drainage is not a major problem in this AES but being availability of poor quality water hampers the growth of crops.
3.	<b>AES-3</b> (Gharmukteshwar)	Garhmukteshwar has a monsoon influenced humid subtropical climate characterized by very hot summers and cool winters. Summers last from early April to late June during and are extremely hot, with temperatures reaching 43 °C (109 °F). The monsoon arrives in late June and continues till the middle of September. Temperatures drop slightly, with plenty of cloud cover but with higher humidity. Temperatures rise again in October and the town then has a mild, dry winter season from late October to the middle of March. Lowest temperature recorded is 0.5 °C (32.9 °F). Rainfall is about 80 cm to 100 cm per annum, which is suitable for growing crops. Most of the rainfall is received during the monsoon. Humidity varies from 30 to 100%	Drainage is a major and serious problem in this AES. Many time if there is heavy rain or untimely rain during Rabi damage the crop completely.

c) AES-wise major problems

S.No	Agro-Ecological Situation (AES)	Major problems	Rank
1.	<b>AES-1</b> The soils of this AES are loam, sandy loam and are generally fertile. Some parts in this AES are low lying where Paddy is cultivated in Kharif. This AES is mainly irrigated by Gang canal and quality of water is suitable for irrigation except few parts where saline water is available. The main crops of this AES are Paddy, Sugarcane, Jawar, Mustard, Wheat, Barley and vegetable crops. Floriculture and some fruit crops are also grown. (Hapur, Gharmukteshwar, Dholana,)	Salinity in soil and irrigation water in some part of this AES	III
2.	<b>AES-2</b> The soils of this AES are generally loam, sandy loam but not too fertile because of salinity & alkalinity. The quality of water is also varies and do not suitable for irrigation due to high concentration of salt. Some part of this AES are also affected with the waste water from simmbhawali sugar mill in drainage and hence Bajra, Jawar, Mustard, paddy, sugarcane & Wheat. (Simbhawali)	The soils in this AES are not too fertile because of salinity.  The quality of water is also varies and do not suitable for irrigation due to high concentration of salt.  Some part of this AES are also affected with the waste water from Simbhawali sugar mill in drainage	I
3.	<b>AES-3</b> The AES is semi waterlogged specially the areas in Chhata & Nandgaun. The soils are loam, sandy loam with some patches of Usar soils. The quality of water for irrigation is not good. Main crops of this AES are Sugarcane, Jawar, Paddy, Wheat & Mustard. (Gharmukteshwar)	The AES is heavy rain or untimely rain during Rabi damage the crop completely.	II

**2.2. Area, Production and Productivity of major crops cultivated in the district (2020)**

S. No	Crop	Area (ha)	Production (MT)	Productivity (q /ha)	Yield gap (q/ha) with respect to demo	Yield gap (q/ha) with respect to potential yield
<b>A</b>	<b>FIELD CROPS INCLUDING OIL SEEDS AND PULSES</b>					
1.	Wheat	42279	187000	44.23	12	15.0
2.	Lentil	231.00	223.00	9.64	11.6	14.2
3.	Toria	2238.00	2293	10.25	8.2	10.8
4.	Mustard	2404	2902	12.07	9.0	10.0
5.	Paddy (Rice)	28458	56667.00	29.33	24	26
6.	Maize	1995	48837.6	24.48	-	15
	Urd	1122.00	6911.52	06.16	7.56	9.35
	Moong	6500.00	290.55	04.47	5.46	7.56
	Arhar	1186.00	2488.00	08.00	6.25	9.02
7.	Sugarcane	36.4		785.6	14.0	16.25
<b>B</b>	<b>VEGETABLES</b>					
1.	Potato	1071	24036	230.03	11.3	13.02
2.						
3.						
4.						
5.						

**2.3 Weather data (rainfall)Dist. Hapur (2022-23)**

Year	Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
<b>2022</b>						
	Jan.	15.5	17.57	5.51	28.32	
	Feb.	39.5	46.31	15.57	29.2	
	March	15.6	33.99	16.86	58.50	
	April	10.50	42.2	13.0	62	
	May	13.30	42.2	19.5	63	
	June	70.70	40.0	20.0	58	
	July	201.30	35.0	24.0	53	
	Aug.	190.40	36.0	31.0	65	
	Sep.	136.90	36.5	31.5	68	
	Oct	19.90	28.8	23.0	65	
	Nov.	2.10	22.0	18.0	62	
	Dec.	9.5	18.0	16.0	70	
<b>2023</b>		0	0	0	0	
	Jan.	0.50	16.0	14.0	85	
	Feb.	18.47	22.0	16.0	80	
	March	4.96	29.5	18.0	60	
	April	55.1	38.07	21.3	29.30	
	May	21.6	41.37	25.35	28.32	
	June	15.6	25.20	12.00	58.50	
	July	20.6	40.37	26.10	25.25	
	Aug.	54.1	38.09	21.35	29.40	
	Sep.	15.6	25.20	12.00	58.50	
	Oct.	0	32.00	20.23	25.21	
<b>Total</b>		<b>931.73</b>	-	-	-	-

## 2.4 Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity	Productivity gap
<b>Cattle</b>				
Crossbred	40263	65.725	9.56Litre Milk / day	1.5
Indigenous	-			
Buffalo	161321	340.893	5.90 / day	0.9
Cow	40263	55.65	9.56Litre Milk / day	1.5
<b>Sheep</b>				
Crossbred	-	-	-	
Indigenous	1335	3.16	0.50 / day	-
Goats	37523	9.16	0.32 / day	-
<b>Pigs</b>				
Crossbred	-	-	-	
Indigenous	4675	-	-	-
Rabbits	Data not available	Data not available	Data not available	
<b>Hens</b>				
Desi				
Improved				
Ducks				
Turkey and others				
Fish				

## 2.5 Details of operation area/villages

S. No.	Taluk/Village	Name of block	Major crops & enterprises	Existing yield (q/ha, number/year)	Major problem identified	Identified thrust area
1	Upeda	Hapur	Paddy Wheat Sugarcane Potato Mustard Dairy	36.75 55.4 1080.0 245.0 18.0 32.34	Low Productivity of paddy, wheat, mustard, urd etc.  The main reason of low yield is due to lack of high yielding varieties, imbalance use of fertilizer & less awareness of insect and disease control timely.	Diversification in agriculture  Lack of high yielding varieties. Less availability of plant protection measures.
2	Sikhera	Sambhawali	Paddy Urd Wheat Sugarcane Banana	33.5 4.85 50.9 960.0 44.23	Low Productivity of paddy, wheat, mustard, urd etc.	Diversification in agriculture Lack of high yielding varieties.

			Mustard, Dairy	13.75 21.05	The main reason of low yield is due to lack of high yielding varieties, imbalance use of fertilizer & less awareness of insect and disease control timely. Low yield of paddy, wheat, & mustard	Less availability of plant protection measures.  Heavy infestation of weeds.
3	Badgpur	Hapur	Paddy Wheat Sugarcane Mustard Dairy Chilli, Bottle guard, Cabbage	31.5 45.2 935.0 17.2 28.9 8.8 9.45 22.56	Poor milk production and infertility in animals.  Lack of knowledge of quality planting material and production technology in horticultural crops.  Low yield of paddy, wheat, & mustard	Diversification in Agriculture.  Use of improved variety and IPM, ICM.  Heavy infestation of weeds.
4	Dhatiyana	Sambha wali	Paddy Wheat Sugarcane Papaya Mustard Potato Dairy	35.7 43.8 960.0 18.95 15.89 265.0 25.71	Use of local varieties of different crops by the farmers.  Pest problems  Low yield of paddy, wheat, Papaya & mustard	Diversification in Agriculture.  Use of improved variety and IPM, ICM.  Heavy infestation of weeds.
5	Kaniya Kalyanpur	Sambha wali	Paddy Wheat Sugarcane Mustard Onion Dairy Potato	28.7 46.0 840.0 9.45 5.75 18.95 245.0	Lack of knowledge of improved varieties of different crops. - Pest problems - Lack of knowledge of inter cropping - Crop management & nutrient management. - Disease & insect control of cereals and vegetable crops. - Poor milk production and infertility in animals	Diversification in agriculture. Use of improved varieties.  Inter cropping technique. Crop management.  Weed control  Unawareness of diseases and insect control.
6	Simmroli	Hapur	Paddy Wheat	31.7 43.65	Lack of knowledge of improved varieties of different crops.	Diversification in agriculture. Use of improved

		Sugarcane Mustard Dairy Cucurbits	860.0 16.95 22.2 8.45	- Pest problems - Lack of knowledge of value addition & nutrient management in women. - Disease & insect control of cereals and vegetable crops. - Poor milk production and infertility in animals	varieties. Value addition & Nutri thali.  Weed control  Unawareness of diseases and insect control. Dairy management
--	--	--	--------------------------------	---	--

## 2.6 Priority/ Thrust Areas

- 1.Improving productivity of oil seeds crops.
- 2.Weed management in crops
- 3.Promotion of IPNM & balance use of fertilizer
- 4.Promotion of IPM technology
- 5.Malnutrition in children & pregnant women & Small scale income generating enterprises

## 3 .TECHNICAL PROGRAMME

### 3. A. Details of targeted mandatory activities by KVK during Jan. 2024-Dec.2024

OFT		FLD			
No. of OFTs	No. of Farmers	Crops		Livestock	
		Area (ha)	No. of Farmers	No. of unit	No. of Farmers
08	89 Farmer	56.5 ha.	230	20 Animal	20

CFLD – NFSM Project	
Crops	
Area (ha)	No. of Farmers
50.0	125

Training		Extension Activities	
No. of Courses	No. of Participants	No. of activities	No. of participants
100	2000	362	5439

Seed Production (Qtl.)	Planting material production (Nos.)	Fish seed prod. (Nos)	Soil Samples analyzed (Nos.)
200	20000	-	-

### **3 B Abstract of interventions to be undertaken**

S. N o	Thrust areas	Crop/ Enterprise	Identified problem	Title of OFT if any	Title of FLD if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.	Title of Training, if any
1.	Resource conservation	Mango	Low productivity of mango varieties Dashaheri and Langra due to highly dense mango orchards	Assessment of Canopy management of mid-age mango orchards (>25years) though centre opening	-	1. Nutrient management in mango 2. Rejuvenation of mango orchards 3. Fertilizer management in Mango orchard	Field Day	COC, Boron, Zinc and CuSO <sub>4</sub>	Nutrient management in mango
2.	Integrated Pest Management.	Sugarcane	Loss in cane yield (10-24%) of the crop leading to reduction in farmer's income	Assessment of IPM module for the management of shoot borer, top borer in sugarcane	-	1. Importance of Seed treatment. 2. Installation of Trichocard. 3. Use of Pheromone traps	Field Day	Chloropyriphos 20 EC, Carbendazim 50WP, Fertera 0.4G, Trichocard and Pheromone trap with lure	Importance of soil application of pesticides in Sugarcane crop
3.	IWM	Paddy	Rice is one of the major crop in the district during Kharif season covering more than 0.94 lakh ha area. Heavy infestation of weeds ( <i>Echinochloa colona</i> , <i>Echinochloa crusgalli</i> , <i>Fimbristylis milliaceae</i> , <i>Cyperus rotundus</i> , <i>Cyperus difformis</i> , <i>Marsilea quadrifolia</i> etc.)	Weed Management in Transplanted Rice through chemical method.	-	1. Weed Management in Transplanted Rice	Field day	Weedicide	Weed management in paddy

			causes competition with main crop and reduces the crop yield drastically.						
4.	INM and WM	Sugarcane	Low yield of sugarcane	Assesment of insect pests and weed management	-	1.Importance of INM in sugarcane crop. 2. WM in sugarcane crop.	Field day	SMI (Soil Moisture Indicator) Balanced fertilizer NPK	Use of Balance fertilizer in sugarcane crop
5.	Varietal	Wheat	Sowing of traditional variety in late sown condition through broadcasting method	Assement of line sowing method & recommended dose of fertilizer in wheat crop	-	1. Production technique through line sowing method. 2. Use of balance fertilizer in wheat crop.	Field day	Seed + balanced fertilizer	Weed management in wheat crop.
6.	Reproduction and breeding management	Buffalo	Higher incidences of repeat breeding	Management of <b>repeat breeding</b> in dairy animals	-	1. Importance of Animal nutrition feed	Field day	Mineral Mixture, Dewormer & hormonal treatment as per need	Importance of mineral mixture & vitamins in animal feed
7.	Reproduction and breeding management	Cattle	Higher incidences of repeat breeding	Management of <b>repeat breeding</b> in dairy animals	-	1. Importance of Animal nutrition feed	Field day	Mineral Mixture, Dewormer & hormonal treatment as per need	Importance of mineral mixture & vitamins in animal feed
8.	Reproduction and breeding management	Cattle/Buffalo	Poor management practices during Peri-parturient period	Management of <b>Peri-parturient</b> problems in dairy animals	-	1. Use of Feed Supplement during transition period	Field day	Metabolite mixture	Importance of mineral mixture & vitamins in animal feed
9.	Promotion of ICM	Urd	- Use of local/ own seed No use of weedicide	-	Demonstration of HYV& weed management	Crop production technology	Field day	-Seed -Weedicide - Sulphur - Insecticide	Integrated crop production

10	Promotion of ICM	Mustard	-No application of Sulphur & No use of weedicide	-	Demonstration of HYV+ weed & Sulphur application	Crop production technology	Field days	-Seed - Sulphur - insecticide - Fungicide	Importance of sulphur & Weed management in mustard
11	Promotion of ICM	Pigeon	-No application of Sulphur & No use of weedicide	-	Demonstration of HYV+ weed & Sulphur application	Crop production technology	Field days	-Seed - Sulphur - insecticide - Fungicide	Importance of sulphur & Weed management in pigeon pea
12	Promotion of ICM	Lentil	- Use of local/ own seed No use of weedicide	-	Demonstration of HYV& weed management	Crop production technology	Field day	-Seed -Weedicide - Sulphur - Insecticide	Integrated crop production
13	Integrated nutrient Management	Pearl millet	Low yield due to imbalance fertilizer	-	Nutrient management through water soluble fertilizer (N:P:K- 18:18:18) in pearl millet	Importance of water soluble fertilizer in pearl millet	Field day	water soluble fertilizer (N:P:K- 18:18:18)	Integrated nutrient Management
14	Promotion of HYV (Varietal Evaluation)	Sorghum	Low yield due to old varieties	-	Demonstration of promising variety 'CSV 15' of sorghum for higher productivity	Selection & cultivation of suitable varieties for higher & productivity return.	Field Day	Sorghum Seed	Varietal Evaluation
15	Weed management	Wheat	Infestation of weed in wheat field	-	Control of weed management through Carfentrazone ethyl 40% d.f.	Weed management in wheat	Field day	Weedicide	- Integrated weed management

					@ 20g a.i./ha				
16	Integrated Nutrient management	Wheat	imbalance use of fertilizer	-	Use of water-soluble fertilizers in wheat	Balance use of fertilizer in wheat	Field day	Water soluble fertilizer	Balance use of fertilizers
17	IPM	Paddy	Brown plant hopper	-	Demons. efficacy of Imidacloprid 17.8% SL @ 4.0 lit/ha. (Two spray)	Integrated pest management	Field day	Insecticide	IPM in paddy
18	IPM	Tomato	Offruit fly	-	Use of Fly trap for control offruit fly	Integrated pest management	Field day	Insecticide	IPM in tomato
19	Weed management	S.cane	Infestation of weed in Sugarcane	-	Control of weed management through Tembotrioen @ 250ml/ha.	Weed management in Sugarcane	Field day	Weedicide	- Integrated weed management
20	Diversification in Farming systems	Marigold	Low yield due to old variety of Marigold		Introduction of marigold variety	Fertilizer management in Marigold crop. Nursery raising of marigold	Field day	Seed	Fertilizer management in Marigold crop. Nursery raising of marigold
21	Promotion of HYV (Varietal Evaluation)	Okra	Low yield due to old variety of Okra		Introduction of Okra variety	Fertilizer management in okra crop.	Field day	Seed	Fertilizer management in okra crop.
22	Diversification in	Onion	Low yield due to old variety of Onion		Introduction of Onion	Fertilizer management in	Field day	Seed	Fertilizer management in

	Farming systems				variety	onion crop. Nursery raising of onion			onion crop. Nursery raising of onion
23	Diversification in Farming systems	Garden Pea	Varietal Evaluation		Introduction of garden pea variety	Sowing techniques of Garden pea.	Field day	Seed	Sowing techniques of Garden pea.
24	Animal Nutrition Management	Buffalo	Less lactation period due to not use of mineral mixture	-	Use of mineral mixture	Feed and fodder management	FLD and Training	Mineral mixture	Role of mineral mixture for control of sterility problem
25	Feed and Fodder technology	Oat	Use of Local variety	-	Use of improved variety of Oat	Fodder production techniques	Field day	Seed	Green fodder production techniques in whole year
26	Feed and Fodder technology	Barseem	Use of Local variety	-	Use of improved variety of Barseem	Fodder production techniques	Field day	Seed	Green fodder production techniques in whole year
27	Nutritional Security	Kitchen Garden	To additional income	-	Kitchen Garden	Production of organic vegetable in kitchen garden (Zaid)	FLD and Training	Vegetable Seeds	Production of organic vegetable in kitchen garden
28	Nutritional Security	Kitchen Garden	To additional income	-	Kitchen Garden	Production of organic vegetable in kitchen garden (Kharif)	FLD and Training	Vegetable Seeds	Production of organic vegetable in kitchen garden
29	Nutritional Security	Kitchen Garden	To additional income	-	Kitchen Garden	Production of organic vegetable in kitchen garden (Rabi)	FLD and Training	Vegetable Seeds	Production of organic vegetable in kitchen garden
30	Value Preparation	Preparation	To additional income	-	Value addition	Preparation of	FLD and	Pulses and	Preparation of

	addition	from pulses and vegetable Badis			of pulses and Vegetable BADIS for gradational income	Vegetable BADIS	Training	vegetable species +	Vegetable BADIS
--	----------	---------------------------------------	--	--	--	-----------------	----------	---------------------	--------------------

### **3.1 Technologies to be assessed and refined**

#### **A. 1 Abstract on the number of technologies to be assessed in respect of crops in respect of OFT**

Thematic areas	Cereals	Oil-seeds	Pulses	Commercial crops	Vegetables	Fruits	Flower	Plantation crops	Tuber crops	Total
Varietal evaluation	<b>1</b>	-	-	-	-	-	-	-	-	<b>1</b>
Seed/plant production	-	-	-	-	-	-	-	-	-	-
Weed management	<b>1</b>	-	-	-	-	-	-	-	-	<b>1</b>
Integrated crop management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	1	-	-	-	-	-	1
Integrated Farming system	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Post harvest technology	-	-	-	-	-	-	-	-	-	-
Integrated pest management	-	-	-	<b>1</b>	-	-	-	-	-	<b>1</b>
Integrated disease management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	1	-	-	-	<b>1</b>
Small scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>2</b>	-	-	<b>2</b>	-	<b>1</b>	-	-	-	<b>5</b>

**A.2 Abstract on the number of technologies to be assessed in respect of livestock/  
Enterprises in OFT -**

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	Total
Evaluation of Breeds	-	-	-	-	-	-	-	-
Nutrition management	-	-	-	-	-	-	-	-
Disease of management	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-
Production & Management	3	-	-	-	-	-	-	3
Feed and Fodder	-	-	-	-	-	-	-	-
Small scale income generating enterprises	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>3</b>	-	-	-	-	-	-	<b>3</b>

## B. Details of On Farm Trial:

### OFT-1 RESOURCE CONSERVATION (Season – Rabi 2024-25)

<b>Crop/Enterprises</b>	Mango
<b>Title</b>	Canopy management of mid-age mango orchards (>25years) though centre opening
<b>Thematic area</b>	Resource conservation
<b>Major Problems</b>	Low productivity of mango varieties Dashaheri and Langra due to highly dense mango orchards
<b>Major Cause</b>	<ul style="list-style-type: none"> <li>• Low light interception</li> <li>• Low photosynthesis</li> <li>• Highly dense tall trees with intervening branches</li> <li>• Use of imbalance dose of nutrients</li> <li>• Incidence of Gummosis</li> </ul>
<b>Name of interventions</b>	T1 - Farmers practice-No pruning + Application of 2 kg DAP in the month of October T2 - Centre opening + COC - 2kg + FYM, N, P, K, B, Zn and CuSO <sub>4</sub> @ 50kg, 1000,750,750, 250, 250 and 250 gm/tree/year
<b>No. of farmers</b>	05
<b>Area</b>	05 plant/location=25 plants
<b>Cost of input</b>	Rs 6000/-
<b>Source of Technology</b>	ICAR-CISH, Lucknow
<b>Critical Input</b>	COC, Boron, Zinc and CuSO <sub>4</sub>
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>• Days to flowering after pruning</li> <li>• Days to fruit set after pruning</li> <li>• Size of fruit</li> <li>• Fruit yield</li> <li>• Percent of disease incidence and insect infestation</li> </ul>
<b>Name of Scientist</b>	Dr. Virendra Pal, SMS/Assit. Prof. (Horticulture)

### OFT-2 INTEGRATED PEST MANAGEMENT (Season - Zaid 2024)

<b>Crop/Enterprises</b>	Sugarcane
<b>Title</b>	Assessment of IPM module for the management of shoot borer, top borer in sugarcane
<b>Thematic area</b>	Integrated Pest Management
<b>Major Problems</b>	Loss in cane yield (10-24%) of the crop leading to reduction in farmer's income
<b>Major Cause</b>	<ul style="list-style-type: none"> <li>• Low quality cane production and reduction in crop productivity due to heavy infestation of shoot borer, top borer.</li> <li>• Reduction in height and weight of cane due to such common borer infestation</li> <li>• High residual effect in bi-products of sugarcane due to non judicious use of pesticides to control borer</li> <li>• Increase in infestation rate due to excess use of nitrogenous fertilizer.</li> </ul>
<b>Name of interventions</b>	<p>T1- Farmers practice- Furadan 3G @ 30 kg/ha and Chlorantraniliprole 18.5 SC @375 ml/ha</p> <p>T2-</p> <ul style="list-style-type: none"> <li>• Preference to the single bud method of sugarcane cultivation.</li> <li>• For the ease of <b>Seed treatment</b>: Chlorpyriphos 20 EC @40ml and Carbendazim @50g/10lit water</li> <li>• <b>Soil application</b>: Fetera 0.4 G @22.5 kg/ha at planting and drenching of Chlorantraniliprole 18.5 SC @375 ml/ha in 700 lit. of water at 60 DAP</li> </ul>

	<ul style="list-style-type: none"> <li><b>Installation of Trichocard</b> @7.5 card/ha(@50000 parasitoid/ha) at 45,60,75(at two weeks), 150 and 180 DAP(5 times during peak of egg laying)</li> <li><b>Pheromone traps</b> @ 27/ha at 45 DAP (lure change at an interval of 45 days) 10 meter distance from boundary &amp; 20 meter distance between 2 trap should be maintain.</li> </ul>
<b>No. of farmers</b>	05
<b>Area</b>	2.0 hectare (0.4x5= 2.0)
<b>Cost of IPM modules</b>	Rs. 9038.00/acre(Total Rs. 45190/- for 2.0 hectare area
<b>Source of Technology</b>	ICAR-IISR, Lucknow
<b>Critical Input</b>	Chloropyriphos 20 EC, Carbendazim 50WP, Fertera 0.4G, Trichocard and Pheromone trap with lure
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>Germination percent</li> <li>No of tillers/5*2 m<sup>2</sup></li> <li>Height (m) of healthy and infected cane.</li> <li>Cane girth (cm) of healthy and infected (5 cane each insect).</li> <li>Infestation % of shoot borer &amp; top borer.</li> <li>Weight (g) of healthy and infested cane</li> <li>Infestation of other insect-pest</li> <li>Yield (t/ha)</li> <li>B:C ratio</li> <li>Meteorological data for crop period</li> </ul>
<b>Name of Scientist</b>	Dr. Arvind Kumar, Associate Prof. (Plant Protection)

### OFT- 3 INTEGRATED WEED MANAGEMENT

**Paddy (Season – Kharif 2024)**

<b>Title</b>	Weed Management in Transplanted Rice through chemical method.
<b>Problem diagnosed</b>	Rice is one of the major crop in the district during <i>Kharif</i> season covering more than 0.94 lakh ha area. Heavy infestation of weeds ( <i>Echinochloa colona</i> , <i>Echinochloa crusgalli</i> , <i>Fimbristylis milliaceae</i> , <i>Cyperus rotundus</i> , <i>Cyperus difformis</i> , <i>Marsilea quadrifolia</i> etc.) causes competition with main crop and reduces the crop yield drastically.
<b>Micro farming situation</b>	Irrigated condition with Medium land under Rice-Wheat cropping system.
<b>Thematic area</b>	IWM
<b>Details of technology identified for solution</b>	T1: Bis-pyribac Sodium 10% @ 200-250 ml/ha T2: Trifamone 20%+Ethoxysulfuron10%WG @ 90g/ha. T3: Bispyribac Sodium 38% + Chlorimuron Ethyl 2.5% + Metsulfuron Methyl 2.5%(w/w) WG @ 100g/ha
<b>Source of Technology</b>	ICAR-DWR, Jabalpur
<b>No. of farmers</b>	10
<b>Area</b>	(10x800)=8000 sq. m.
<b>Critical inputs</b>	Weedicide
<b>Total Cost</b>	Rs. 4000.00/- approx.
<b>Performance Indicator</b>	
<b>Technical</b>	<ol style="list-style-type: none"> <li>1. Weed density at 30 and 45 DAT (No. of weeds/m<sup>2</sup>).</li> <li>2. Number of different weeds species (Number/m<sup>2</sup>).</li> <li>3. Total weed dry weight (g/m<sup>2</sup>)</li> <li>4. Major weed flora.</li> </ol>

	5. Number of effective tillers per plant (Number/m <sup>2</sup> ).
<b>Economical</b>	1. Grain Yield (q/ha). 2. Straw Yield (q/ha). 3. Cost of Cultivation (Rs./ha) 4. Net Return (Rs./ha) 5. Cost Benefit Ratio (C:B Ratio)
<b>Social</b>	1. Adoption Rate. 2. Suitability of Technology. 3. Feedback of farmers
<b>Name of Scientist</b>	Dr. Ashok Singh, (Soil Science)

**OFT- 4 INTEGRETAEED NUTRIENT MANAGEMENT & WEED MANAGEMENT**  
**Sugarcane (Season – Zaid 2024)**

<b>Crop/Enterprises</b>	Sugarcane (Zaid-2024)
<b>Problem diagnosed</b>	Low yield of sugarcane
<b>Major cause</b>	High infestation of insect pests and weed
<b>Thematic Area</b>	INM and WM
<b>Details of technologies selected for assessment/refinement</b>	T1: Farmer's practice (flood irrigation + 400K urea + 130 kg DAP +0 kg potash per kg)  T2: Use balanced fertilizer as per soil testing value and irrigate on the basis of soil moisture indicator
<b>Replications</b>	03 (Area – 0.4 * 3 = 1.2 ha)
<b>Critical inputs</b>	<ul style="list-style-type: none"> <li>• SMI (Soil Moisture Indicator)</li> <li>• Balanced fertilizer NPK</li> </ul>
<b>Source of technology</b>	ICAR-IARI, New Delhi
<b>Observations to be recorded</b>	<ul style="list-style-type: none"> <li>• Pest build up (insect, disease infestation and weed population per m)</li> <li>• No. of irrigation and fertilizer saving</li> <li>• Cost of cultivation</li> <li>• Yield q/ha</li> <li>• B:C ratio</li> </ul>
<b>Name of Scientist</b>	Dr. Ashok Singh, (Soil Science)

### OFT- 5 Varietal

**Wheat (Season – Rabi 2024-25)**

<b>Crop/Enterprises</b>	Wheat (Rabi 2024-25)
<b>Problem diagnosed</b>	Low production in late sown condition
<b>Major cause</b>	Sowing of traditional variety in late sown condition through broadcasting method
<b>Thematic Area</b>	Varietal
<b>Details of technologies selected for assessment/refinement</b>	T1: Farmer's practice – Use of old variety (DBW-173) and application of 100:60:0 kg NPK  T2: Line sowing of wheat variety HD-3298 + application of recommendation dose of fertilizer @ 80:60:40 and Zinc (on the basis of soil testing)
<b>Source of technology</b>	ICAR-IARI, New Delhi
<b>No. of farmers</b>	06
<b>Critical inputs</b>	Seed + balanced fertilizer
<b>Source of technology</b>	ICAR-IARI, New Delhi
<b>Plot size &amp; sowing time</b>	800 sq. m per farmer & between 15-30 Dec.
<b>Observations to be recorded</b>	<ul style="list-style-type: none"> <li>• Seed rate</li> <li>• Plant population per m<sup>2</sup> at 20-25 days &amp; at harvesting</li> <li>• No. of effective tillers (60 DAS)</li> <li>• Days taken to maturity</li> <li>• Yield 10 m<sup>2</sup> area (randomly from 4-5 places) per q per ha.</li> <li>• B:C ratio</li> </ul>
<b>Name of Scientist</b>	Dr. Arvind Kumar, Associate Prof. (Plant Protection)

### OFT – 6 REPRODUCTION AND BREEDING MANAGEMENT

**Buffalo (Season - Winter 2024)**

<b>Title</b>	Management of <b>repeat breeding</b> in dairy animals
<b>Major Problems</b>	Higher incidences of repeat breeding
<b>Major cause</b>	Nutritional deficiency and hormonal disbalance
<b>Name of intervention</b>	T1 : Farmers practice: Use of choker and common salt T2 : Dewormer + Use of Feed Supplement (Trace mineral) @50 gm/day /animal for 3 months + Hormonal treatment if needed
<b>No. of Farmer</b>	10 + 10
<b>Thematic Area</b>	Reproduction and breeding management
<b>Cost of input</b>	Rs. 10000/-
<b>Source of Technology</b>	ICAR-IVRI, Izatnagar
<b>Critical Input</b>	Mineral Mixture, Dewormer & hormonal treatment as per need
<b>Performance indicator</b>	<b>A) Technical</b> 1. Non Return Rate 2. Calving to conception interval 3. Conception rate <b>B) Economic:</b> C:B Ratio <b>C) Social:</b> Adoptability
<b>Name of Scientist</b>	Dr. P.K. Madke SMS/Assit. Prof. (Animal Science)

## OFT – 7 REPRODUCTION AND BREEDING MANAGEMENT

### Cattle (Season - Kharif 2024)

Crop/Enterprises	Cattle (Age group – 4 to 6 years)
<b>Title</b>	Management of <b>repeat breeding</b> in dairy animals
<b>Major Problems</b>	Higher incidences of repeat breeding
<b>Major cause</b>	Nutritional deficiency and hormonal disbalance
<b>Name of intervention</b>	T1 : Farmers practice: Use of choker and common salt T2 : Dewormer + Use of Feed Supplement (Trace mineral) @50 gm /day /animal for 3 months + Hormonal treatment if needed
<b>No. of Farmer</b>	10 + 10
<b>Thematic Area</b>	Reproduction and breeding management
<b>Cost of input</b>	Rs. 10000/-
<b>Source of Technology</b>	ICAR-IVRI, Izatnagar
<b>Critical Input</b>	Mineral Mixture, Dewormer & hormonal treatment as per need
<b>Performance indicator</b>	<p><b>A) Technical</b></p> <ol style="list-style-type: none"> <li>1. Non Return Rate</li> <li>2. Calving to conception interval</li> <li>3. Conception rate</li> </ol> <p><b>B) Economic:</b> C:B Ratio</p> <p><b>C) Social:</b> Adoptability</p>
<b>Name of Scientist</b>	Dr. P.K. Madke SMS/Assit. Prof. (Animal Science)

## OFT – 8 REPRODUCTION AND BREEDING MANAGEMENT

### Cattle/Buffalo (Season - Kharif 2024)

Crop/Enterprises	Cattle/Buffalo
<b>Title</b>	Management of <b>Peri-parturient</b> problems in dairy animals
<b>Major Problems</b>	Poor management practices during Peri-parturient period
<b>Major cause</b>	Poor nutrient management
<b>Name of intervention</b>	<b>T1</b> : Farmers practice: Use of choker +Common salt <b>T2</b> : Use of Feed Supplement (Metabolite mixture@100g/day) during transition period
<b>No. of Farmer</b>	10 + 10
<b>Thematic Area</b>	Reproduction and breeding management
<b>Cost of input</b>	Rs. 10000/-
<b>Source of Technology</b>	ICAR-NDRI, Karnal
<b>Critical Input</b>	Metabolite mixture

Performance indicator	<p>A) <b>Technical</b></p> <ol style="list-style-type: none"> <li>1. Incidence of post parturient problems (%)</li> <li>2. Service period</li> <li>3. Conception rate</li> </ol> <p>B) <b>Economic:</b> C:B Ratio</p> <p>C) <b>Social:</b> Adoptability</p>
<b>Name of Scientist</b>	Dr. P.K. Madke SMS/Assit. Prof. (Animal Science)

## **3.2 Frontline Demonstrations**

### **3.2.1 FLD on Oil seeds & Pulses under NFSM Project**

#### **A. Oil Seeds:**

##### **Mustard**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Mustard	R.H – 0749/ As per availability	Integrated crop management	To demonstrate the HYV (RH-0749), Sulphur application (@ 25 Kg/ha.) & Aphid management in Mustard crop.	<ul style="list-style-type: none"> <li>- Use of HYV</li> <li>- Water soluble fertilizer(18:18:18) @ 5 Kg/ha.</li> <li>- Sulphur application @ 25 kg/ha</li> <li>- Monocrotophos 36%SL @ 15 lit/ha.</li> <li>- Mencozeb75% WP @ 2.0 Kg/ha.</li> <li>- Budget required Rs. 180,000/-</li> </ul>	Rabi 2024-25	20.0	50	<ul style="list-style-type: none"> <li>- Yield (q/ha.)</li> <li>- B:C ratio</li> </ul>

#### **Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	02	Jan/Feb.2025	40
2	Farmers training	02	Oct./Nov.2024	40
3	Media coverage	02	-	-
4	Training for extension functionaries	01	Sept.2024	10

**B. Pulses :**

**I. Blackgram**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmer s	Parameter identified
Black gram	PU-31 Or As per availability	Integrated crop management	To demonstrate the HYV (PU- 31), weed mang. (Imazethapyr, Sulphur (@ 25 Kg/ha.) & Yellow mosaic management (Imidacloprid@ 250 ml/ha.) in urd crop.	- Seed (HYV) - Imazethapyr @ 625 ml/ha. - Water soluble fertilizer(18:18:18) @ 5 Kg/ha. - Sulphur @ 25 Kg/ha. - Imidacloprid @ 250ml/ha.  Total cost= Rs. 90000/-	Kharif 2024	10.0	25	- Yield (q/ha.) - B:C ratio

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	01	Sept./ Oct.2024	25
2	Farmers training	01	Aug.2024	20
3	Media coverage	02	-	-
4	Training for extension functionaries	01	Aug, 2024	10

**C. Pulses :**

**II. Arhar**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmer s	Parameter identified
Pigeon pea	Pusa 885 or As per availability	Integrated crop management	To demonstrate the HYV (Pusa 885), weed mang. (Imazethapyr, Sulphur (@ 25 Kg/ha.) & Yellow mosaic management (Imidacloprid @ 250 ml/ha.) in urd crop.	- Seed (HYV) - Imazethapyr @ 625 ml/ha. - Water soluble fertilizer(18:18:18) @ 5 Kg/ha. - Sulphur @ 25 Kg/ha. - Imidacloprid @ 250ml/ha.  Total cost= Rs. 90000/-	Kharif 2024	10.0	25	- Yield (q/ha.) - B:C ratio

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	01	Sept./ Oct.2024	25
2	Farmers training	01	Aug.2024	20
3	Media coverage	02	-	-
4	Training for extension functionaries	01	Aug, 2024	10

**d. Pulses :**

**III. Lentil**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmer s	Parameter identified
Lentil	PL-8 or As per availability	Integrated crop management	To demonstrate the HYV (PL-8), weed mang. (Pendimethalin 3.5 lit/ha., & Rust management Carbendazim + mencozeb/triazoles @ 250gm/ha. 2.5 gm/lit. of water Sulphur (@ 25 Kg/ha.)	- Seed (HYV) - (Pendimethalin 3.5 lit/ha., - Sulphur @ 25 Kg/ha. - Rust management Carbendazim + mencozeb/triazoles @ 250gm/ha. Total cost= Rs. 90000/-	Rabi 2024-25	10.0	25	- Yield (q/ha.) - B:C ratio

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	01	Jan/Feb.2025	25
2	Farmers training	01	Oct./Nov.2024	20
3	Media coverage	02	-	-
4	Training for extension functionaries	01	Sept.2024	10

### **Sponsored Demonstration C-FLDs under NFSM**

<b>Sl. No.</b>	<b>Crop</b>	<b>Area (ha)</b>	<b>No. of farmers</b>
1	Mustard (Rabi 2024-25)	20.0 ha.	50
2	Black gram (Kharif 2024)	10.0 ha.	25
3	Pigeon Pea (Kharif 2024)	10.0 ha.	25
4	Lentil (Rabi 2024-25)	10.0 ha.	25
	<b>TOTAL</b>	<b>50.0 ha</b>	<b>125</b>

### 3.2.2 FLD Other than oil seeds & Pulses

#### FLD No. - 1

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Pearl millet	PUSA Composite 701	Integrated Nutrient Management	Nutrient management through water soluble fertilizer (N:P:K-18:18:18) in pearl millet	N:P:K-18:18:18- 7kg/ha @ Rs.100/kg Cost: Rs. 700/- per ha Total cost: Rs. 4200	Kharif 2024	6.0	15	<ul style="list-style-type: none"> <li>• Tillers per metre row</li> <li>• Grains per ear</li> <li>• Grain yield (q/ha)</li> <li>• Relative economics</li> </ul>

#### Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	September 2024	20
2	Farmers Training	01	July/August 2024	20
3	Media coverage	02	-	Mass

## FLD No. - 2

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Sorghum	CSV 15	VE	Demonstration of promising variety 'CSV 15' of sorghum for higher productivity	Sorghum variety seed 'CSV 15': 8kg/ha @ Rs.75/kg Cost: Rs. 600/- per ha - Total cost: Rs. 3600	Kharif 2024	6.0	15	<ul style="list-style-type: none"> <li>• Tillers per metre row</li> <li>• Grains per ear</li> <li>• Grain yield (q/ha)</li> <li>• Relative economics</li> </ul>

## Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	September 2024	20
2	Farmers Training	01	July/August 2024	20
3	Media coverage	02	-	Mass

### FLD No. - 3

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Wheat	HD 3226/As per availability	Weed management	Weed management in wheat through Carfentrazone ethyl 40% d.f. @ 20g a.i./ha	Weedicide: 'Carfentrazone ethyl 40% d.f.' @ 20g a.i./ha  Cost: Rs. 700/- per ha  Total cost: Rs. 4200	Rabi 2024-25	6.0	15	<ul style="list-style-type: none"> <li>• Tillers per metre row</li> <li>• Weeds/m<sup>2</sup></li> <li>• Weed control efficiency</li> <li>• Grain yield (q/ha)</li> <li>• Relative economics</li> </ul>

### Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	December 2024	20
2	Farmers Training	01	November 2024	20
3	Media coverage	02	-	Mass

**FLD No. - 4**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Wheat	HD 3226/As per availability	Integrated Nutrient Management	Nutrient management through water soluble fertilizer (N:P:K- 18:18:18) in wheat	N:P:K-18:18:18- 12.5kg/ha @ Rs.100/kg  Cost: Rs. 1250/- per ha - Total cost: Rs.7500	Rabi 2024-25	6.0	15	<ul style="list-style-type: none"> <li>• Tillers per metre row</li> <li>• Grains per ear</li> <li>• Grain yield (q/ha)</li> <li>• Relative economics</li> </ul>

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	December 2024	20
2	Farmers Training	01	November 2024	20
3	Media coverage	02	-	Mass

## FLD No. - 5

Crop	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Paddy	- Integrated pest management	- Control of Brown plant hopper through Imidacloprid 17.8% SL @ 4.0 lit/ha.  (Two spray)	- Imidacloprid 17.8% SL @ 4.0 lit/ha.  - Total Cost Rs. 4500/-	Kharif 2024	4.0	10	- Insect infestation% - Yield(q/ha) - Economics

## Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	1	Sept. - Oct.2024	30
2	Media coverage	1	-	-
3	Farmers training	1	Aug.2024	20

## FLD No. - 6

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Tomato	Pusa Hybrid -2 /other high yielding variety	IPM	Use of Fly trap for control offruit fly.	Fly trap with leur Total Rs. 15000/ approx.	Rabi 2024-25	8.0	20	-% of damage fruits - Yield q/ha. - Economics (B:C Ratio.)

## Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field day	02	Feb. 2024	40
2	Media Coverage	01	March. 2024	-
3	Farmers training	01	March. 2024	20

## FLD No. – 7

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
S.cane	CO 0238	Weed management	- Weed management in S.cane through Tembotrione @ 285ml/ha.	- Weedicide - Tembotrione @ 285ml/ha	Zaid 2024	6.0	15	- Cane Yield (q/ha.) - Economics - Cane Girth - Weed population

## Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Feb. 2024	20
2	Farmers training	01	Nov. 2024	20
3	Media coverage	02	-	Mass

### **FLD No. – 8**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area (ha)	No. of farmers	Parameter identified
Marigold	Arka Bangara/Pusa Deep	Varietal evaluation	Introduction of marigold variety.	Seed 1.5 Kg/ha. Rs. 6750.00	Kharif 2024	1.0	10	- Cost of cultivation - Gross Return - Net Return - C:B Ratio - Yield increase (%)

### **Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Aug. 2024	20
2	Farmers training	01	Sept. 2024	20
3	Media coverage	02	-	Mass

**FLD No. – 9**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Okra	Pusa Bhindi - 5	Varietal evaluation	Introduction of Okra variety.	Seed 12.0 Kg/ha. Rs. 7000.00	Kharif 2024	1.0	10	- Cost of cultivation - Gross Return - Net Return - C:B Ratio - Yield increase (%)

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Aug. 2024	20
2	Farmers training	01	Sept. 2024	20
3	Media coverage	02	-	Mass

**FLD No. – 10**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Onion	Pusa Riddhi	Varietal evaluation	Introduction of Onion variety.	Seed 10.0 Kg/ha. Rs. 9600.00	Rabi 2024-25	1.0	10	- Cost of cultivation - Gross Return - Net Return - C:B Ratio - Yield increase (%)

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Dec. 2024	20
2	Farmers training	01	Jan. 2025	20
3	Media coverage	02	-	Mass

**FLD No. – 11**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Garden Pea	Pusa Praval	Varietal evaluation	Introduction of garden pea variety.	Seed 100 Kg/ha. Rs. 11000.00	Rabi 2024-25	1.0	10	- Cost of cultivation - Gross Return - Net Return - C:B Ratio

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Dec. 2024	20
2	Farmers training	01	Jan. 2025	20
3	Media coverage	02	-	Mass

**FLD No. – 12**

Enterprise	Breed	Thematic area	Technology Demonstrated	Critical input	Season and year	No. of animals, poultry birds/ha. etc.	No. of farmers	Parameter identified
Buffalo	Milch cattle/ Buffalo Murraha	Animal Nutrition Management	Enhancement milk production in milch buffalo.	Mineral mixture – 40 kg @ 240/- kg  Ivermeitin bolus– 20 boxes @ 50/- per Boxes  Total – Rs. 10600.00	Kharif 2024	20	20	1. Milk production 2. Proper heat period. 3. Adoptability. 4. Economics (B:C ratio)

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Sept. 2024	20
2	Farmers training	01	Aug. 2024	20
3	Media coverage	02	-	Mass

**FLD No. - 13**

Crop	Thematic area	Technology Demonstrated	Critical input	Season and year	Area (ha)	No. of farmers	Parameter identified
Oat	Feed and Fodder technology	Use of High yield Variety	Variety: (UPO -24)/ As per availability Seed Req: 400 kg @ 50/- Total Rs: 20000 /- approx.	Rabi 2024-25	4.0 ha	10	1.Production performance 2. Yield /ha. 3. No of cutting

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	1	February 2025	20
2	Media coverage	1		
3	Farmers training	1	Nov. 2024	20

**FLD No. - 14**

Crop	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Berseem	Feed and Fodder technology	Use of High yield Variety	Variety: (BL-42) Seed Req: 50kg @ 230/Kg Total Rs: 11500/- approx.	Rabi 2024-25	2.0 ha	20	1. Production performance 2. Yield /ha. 3. No of cutting

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	1	February 2025	20
2	Media coverage	1	-	-
3	Farmers Training	1	Nov. 2024	20

## Home Science.

S N	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season / year	Area (ha)	No. of Demo.	Parameter indicators	Expected Exp. (Rs.)
1.	Kitchen Garden	Zaid vegetables	Nutritional Security	Production of organic vegetables in Kitchen Garden	Vegetable Seeds	Zaid 2024	0.15	15	● Cost of cultivation ● Net Return ● C:B Ratio	5000.00
2.	Kitchen Garden	Kharif vegetables	Nutritional Security	Production of organic vegetables in Kitchen Garden	Vegetable Seeds	Kharif-2024	0.15	15	● Cost of cultivation ● Net Return ● C:B Ratio	5000.00
3.	Kitchen Garden	Rabi vegetables	Nutritional Security	Production of organic vegetables in Kitchen Garden	Vegetable Seeds	Rabi 2024-25	0.15	15	● Cost of cultivation ● Net Return ● C:B Ratio	5000.00
4.	Preparation from pulses and vegetable Badis	Zaid 2024	Value addition	Value addition of pulses and Vegetable BADIS for gradational income	Pulses and vegetable species	Zaid 2024	-	10	● Nutritive value ● Cost of preparation ● Profitability ● Sale opportunity ● Farmer Reaction and Feedback Self life	4500.00

### Extension and Training activities under FLDs during year -2024-25

SN	Activity	No. of activities	Month	Approximate number of participants
1	Field days	04	August, Nov, Dec, Feb.	123
2	Farmers Training	17	Sept., Oct., Dec., Jan, Feb, March	240
3	Media coverage	12	Sep., Oct., Nov., Dec.	Mass
4	Training for extension functionaries	02	Sep., Nov.,	105

**3.3 Training (Including the sponsored and FLD training programmes):**  
**A) ON Campus**

Thematic Area	No. of Courses	No. of Participants						Grand Total		
		Others			SC/ST					
		Male	Female	Total	Male	Female	Total			
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Weed Management	01	18	-	18	02	-	02	20		
Resource Conservation Technologies	-	-	-	-	-	-	-	-		
Cropping Systems	-	-	-	-	-	-	-	-		
Crop Diversification	-	-	-	-	-	-	-	-		
Integrated Farming	-	-	-	-	-	-	-	-		
Water management	-	-	-	-	-	-	-	-		
Seed production	01	18	-	18	02	-	02	20		
Nursery management	-	-	-	-	-	-	-	-		
Integrated Nutrient Management	02	36	-	36	04	-	04	40		
Integrated Crop Management	04	72	-	72	08	-	08	80		
Fodder production	-	-	-	-	-	-	-	-		
Production of organic inputs	01	18	-	18	02	-	02	20		
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low volume and high value crops	01	18	-	18	02	-	02	20		
Off-season vegetables	-	-	-	-	-	-	-	-		
Nursery raising	-	-	-	-	-	-	-	-		
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-		
Export potential vegetables	-	-	-	-	-	-	-	-		
Grading and standardization	-	-	-	-	-	-	-	-		
Protective cultivation (Green Houses, Shade Net etc.)	01	18	-	18	02	-	02	20		
<b>b) Fruits</b>										
Training and Pruning	-	-	-	-	-	-	-	-		
Layout and Management of Orchards	01	18	-	18	02	-	02	20		
Cultivation of Fruit	-	-	-	-	-	-	-	-		
Management of young plants/orchards	-	-	-	-	-	-	-	-		
Rejuvenation of old orchards	-	-	-	-	-	-	-	-		
Export potential fruits	-	-	-	-	-	-	-	-		
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-		
Plant propagation techniques	-	-	-	-	-	-	-	-		
<b>c) Ornamental Plants</b>										
Nursery Management	-	-	-	-	-	-	-	-		
Management of potted plants	-	-	-	-	-	-	-	-		
Export potential of ornamental plants	-	-	-	-	-	-	-	-		
Propagation techniques of Ornamental Plants	01	18	-	18	02	-	02	20		
Others (Post harvest management technology)	01	18	-	18	02	-	02	20		
<b>d) Plantation crops</b>										
Production and Management technology	-	-	-	-	-	-	-	-		
Processing and value addition	-	-	-	-	-	-	-	-		

<b>e) Tuber crops</b>								
Production and Management technology	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-
<b>f) Spices</b>								
Production and Management technology	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-
<b>g) Medicinal and Aromatic Plants</b>								
Nursery management	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	-	-	-	-	-	-	-	-
Soil and Water Conservation	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-
<b>IV Livestock Production and Management</b>								
Dairy Management	02	36	-	36	04	-	04	40
Poultry Management	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-
Rabbit Management/goat	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-
Feed management	02	36	-	36	04	-	04	40
Production of quality animal products	-	-	-	-	-	-	-	-
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	-	18	18	-	02	02	20
Design and development of low/minimum cost diet	01	-	18	18	-	02	02	20
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	01	-	18	18	-	02	02	20
Storage loss minimization techniques	-	-	-	-	-	-	-	-
Value addition	01	-	18	18	-	02	02	20
Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-

Women and child care	01	-	18	18	-	02	02	20
<b>VI Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems	-	-	-	-	-	-	-	-
Use of Plastics in farming practices	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-
Small scale processing and value addition	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-
<b>VII Plant Protection</b>								
Integrated Pest Management	02	36		36	04		04	40
Integrated Disease Management	02	36		36	04		04	40
Bio-control of pests and diseases	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-
<b>VIII Fisheries</b>								
Integrated fish farming	-	-	-	-	-	-	-	-
Carp breeding and hatchery management	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-
<b>IX Production of Inputs at site</b>								
Seed Production	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-

Production of livestock feed and fodder	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-
<b>X Capacity Building and Group Dynamics</b>								
Leadership development	-	-	-	-	-	-	-	-
Group dynamics	02	36	-	36	04	-	04	40
Formation and Management of SHGs	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-
Others (capacity building for ICT)	02	36	-	36	04	-	04	40
<b>XI Agro-forestry</b>								
Production technologies	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-
<b>XII Others (Pl. Specify)</b>								
<b>TOTAL</b>	<b>31</b>	<b>468</b>	<b>90</b>	<b>558</b>	<b>52</b>	<b>10</b>	<b>62</b>	<b>620</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs								
Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition								
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								

Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
<b>TOTAL</b>								
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops								
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify)								
<b>TOTAL</b>								
<b>G. Total</b>	<b>31</b>	<b>468</b>	<b>90</b>	<b>558</b>	<b>52</b>	<b>10</b>	<b>62</b>	<b>620</b>

**B) OFF Campus**

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST		Grand Total			
		Male	Female	Total	Male	Female	Total			
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Weed Management	02	36	-	36	04	-	04	40		
Resource Conservation Technologies	-	-	-	-	-	-	-	-		
Cropping Systems	-	-	-	-	-	-	-	-		
Crop Diversification	-	-	-	-	-	-	-	-		
Integrated Farming	02	36	-	36	04	-	04	40		
Water management	-	-	-	-	-	-	-	-		
Seed production	-	-	-	-	-	-	-	-		
Nursery management	-	-	-	-	-	-	-	-		
Integrated Nutrient Management	01	18	-	18	02	-	02	20		
Integrated Crop Management	05	90	-	90	10	-	10	100		
Fodder production	-	-	-	-	-	-	-	-		
Production of organic inputs	-	-	-	-	-	-	-	-		
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low volume and high value crops										
Off-season vegetables										
Nursery raising	01	18	-	18	02	-	02	20		
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-		
Export potential vegetables	-	-	-	-	-	-	-	-		
Grading and standardization	-	-	-	-	-	-	-	-		
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-		
Others (Production and Management technology)	03	54	-	54	06	-	06	60		
<b>b) Fruits</b>										
Training and Pruning	-	-	-	-	-	-	-	-		
Layout and Management of Orchards	-	-	-	-	-	-	-	-		
Cultivation of Fruit	-	-	-	-	-	-	-	-		
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits	-	-	-	-	-	-	-	-		
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-		
Plant propagation techniques	-	-	-	-	-	-	-	-		
Others (Production and Management technology)	01	18	-	18	02	-	02	20		
<b>c) Ornamental Plants</b>										
Nursery Management	01	18	-	18	02	-	02	20		
Management of potted plants										
Export potential of ornamentalplants										

Propagation techniques of Ornamental Plants	01	18	-	18	02	-	02	20
<b>d) Plantation crops</b>								
Production and Management technology	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-
<b>e) Tuber crops</b>								
Production and Management technology								
Processing and value addition	-	-	-	-	-	-	-	-
<b>f) Spices</b>								
Production and Management technology	02	36	-	36	04	-	04	40
Processing and value addition	-	-	-	-	-	-	-	-
Others (Post harvest technology)	01	18	-	18	02	-	02	20
<b>g) Medicinal and Aromatic Plants</b>								
Nursery management	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	-	-	-	-	-	-	-	-
Soil and Water Conservation	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-
Balance use of fertilizers	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-
<b>IV Livestock Production and Management</b>								
Dairy Management	03	54	-	54	06	-	06	60
Poultry Management								
Piggery Management								
Rabbit Management /goat								
Disease Management	03	54	-	54	06	-	06	60
Feed management	01	18	-	18	02	-	02	20
Production of quality animal products								
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	-	18	18	-	02	02	20

Design and development of low/minimum cost diet	01	-	18	18	-	02	02	20
Designing and development for high nutrient efficiency diet	01	-	18	18	-	02	02	20
Minimization of nutrient loss in processing	01	-	18	18	-	02	02	20
Gender mainstreaming through SHGs								
Storage loss minimization techniques	01	-	18	18	-	02	02	20
Value addition	02	-	36	36	-	04	04	40
Income generation activities for empowerment of rural Women	01	-	18	18	-	02	02	20
Location specific drudgery reduction technologies	01	-	18	18	-	02	02	20
Rural Crafts								
Women and child care	01	-	18	18	-	02	02	20
<b>VI Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
<b>VII Plant Protection</b>								
Integrated Pest Management	02	36		36	04		04	40
Integrated Disease Management	02	36		36	04		04	40
Bio-control of pests and diseases	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-
<b>VIII Fisheries</b>								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								

Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
<b>IX Production of Inputs at site</b>								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
<b>X Capacity Building and Group Dynamics</b>								
Leadership development	01	18	-	18	02	-	02	20
Group dynamics	02	36	-	36	04	-	04	40
Formation and Management of SHGs(HS)								
Mobilization of social capital	04	72	-	72	08	-	08	80
Entrepreneurial development of farmers/youths (Agro.)	01	18	-	18	02	-	02	20
WTO and IPR issues								
Others(Capacity building for ICT)	02	36	-	36	04	-	04	40
<b>XI Agro-forestry</b>								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
<b>XII Others (Pl. Specify)</b>								
<b>Crop Improvement</b>								
<b>TOTAL</b>	<b>51</b>	<b>738</b>	<b>180</b>	<b>918</b>	<b>82</b>	<b>20</b>	<b>102</b>	<b>1020</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	01	08	-	08	02	-	02	10
Bee-keeping	01	08	-	08	02	-	02	10
Integrated farming								
Seed production	-	-	-	-	-	-	-	-
Production of organic inputs	01	08	-	08	02	-	02	10

Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture	-	-	-	-	-	-	-	-
Sericulture								
Protected cultivation of vegetable crops	01	08	-	08	02	-	02	10
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops	01	08	-	08	02	-	02	10
Training and pruning of orchards								
Value addition	01	-	08	08	-	02	02	10
Production of quality animal products								
Dairying	01	08	-	08	02	-	02	10
Sheep and goat rearing	01	08	-	08	02	-	02	10
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching	01	-	08	08	-	02	02	10
Rural Crafts								
Others (Group dynamics and farmers organization)	02	16	-	16	04	-	04	20
<b>TOTAL</b>	<b>11</b>	<b>72</b>	<b>16</b>	<b>88</b>	<b>18</b>	<b>4</b>	<b>22</b>	<b>110</b>

<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	01	08	-	08	02	-	02	10
Integrated Pest Management	05	40	-	40	10	-	10	50
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs	01	08	-	08	02	-	02	10
Group Dynamics and farmers organization	01	08	-	08	02	-	02	10
Information networking among farmers	01	08	-	08	02	-	02	10
Capacity building for ICT application	01	08	-	08	02	-	02	10
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals	01	08	-	08	02	-	02	10
Livestock feed and fodder production	01	08	-	08	02	-	02	10
Household food security								
Women and Child care	01	-	08	08	-	02	02	10
Low cost and nutrient efficient diet designing	01	-	08	08	-	02	02	10
Production and use of organic inputs	02	16	-	16	04	-	04	20
Gender mainstreaming through SHGs								
Any other (Pl. Specify) ICM	02	16	-	16	04	-	04	20
<b>Nursery Management</b>	01	08	-	08	02	-	02	10
<b>Post harvest management</b>	01	08	-	08	02	-	02	10
<b>TOTAL</b>	<b>20</b>	<b>144</b>	<b>16</b>	<b>160</b>	<b>36</b>	<b>4</b>	<b>40</b>	<b>200</b>
<b>G. Total</b>	<b>82</b>	<b>954</b>	<b>212</b>	<b>1166</b>	<b>136</b>	<b>28</b>	<b>164</b>	<b>1330</b>

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total			
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Weed Management	03	54	-	54	06	-	06	60		
Resource Conservation Technologies	-	-	-	-	-	-	-	-		
Cropping Systems	-	-	-	-	-	-	-	-		
Crop Diversification	-	-	-	-	-	-	-	-		
Integrated Farming	02	36	-	36	04	-	04	40		
Water management	-	-	-	-	-	-	-	-		
Seed production	01	18	-	18	02	-	02	20		
Nursery management	-	-	-	-	-	-	-	-		
Integrated Nutrient Management	03	54	-	54	06	-	06	60		
Integrated Crop Management	09	162	-	162	18	-	18	180		
Fodder production	-	-	-	-	-	-	-	-		
Production of organic inputs	01	18	-	18	02	-	02	20		
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low volume and high value crops	01	18	-	18	02	-	02	20		
Off-season vegetables										
Nursery raising	01	18	-	18	02	-	02	20		
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-		
Export potential vegetables	-	-	-	-	-	-	-	-		
Grading and standardization	-	-	-	-	-	-	-	-		
Protective cultivation (Green Houses, Shade Net etc.)	01	18	-	18	02	-	02	20		
Others (Production and Management technology)	03	54	-	54	06	-	06	60		
<b>b) Fruits</b>										
Training and Pruning	-	-	-	-	-	-	-	-		
Layout and Management of Orchards	01	18	-	18	02	-	02	20		
Cultivation of Fruit	-	-	-	-	-	-	-	-		
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits	-	-	-	-	-	-	-	-		
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-		
Plant propagation techniques	-	-	-	-	-	-	-	-		
Others (Production and Management technology)	01	18	-	18	02	-	02	20		
<b>c) Ornamental Plants</b>										
Nursery Management	01	18	-	18	02	-	02	20		
Management of potted plants										
Export potential of ornamental plants										

Propagation techniques of Ornamental Plants	02	36	-	36	04	-	04	40
Others (Post harvest management technology)	01	18	-	18	02	-	02	20
d) Plantation crops								
Production and Management technology	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-
e) Tuber crops								
Production and Management technology								
Processing and value addition	-	-	-	-	-	-	-	-
f) Spices								
Production and Management technology	02	36	-	36	04	-	04	40
Processing and value addition	-	-	-	-	-	-	-	-
Others (Post harvest technology)	01	18	-	18	02	-	02	20
g) Medicinal and Aromatic Plants								
Nursery management	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	-	-	-	-	-	-	-	-
Soil and Water Conservation	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-
Balance use of fertilizers	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-
<b>IV Livestock Production and Management</b>								
Dairy Management	05	90	-	90	10	-	10	100
Poultry Management								
Piggery Management								
Rabbit Management /goat								
Disease Management	03	54	-	54	06	-	06	60
Feed management	03	54	-	54	06	-	06	60
Production of quality animal products								
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	02	-	36	36	-	04	04	40
Design and development of low/minimum cost diet	02	-	36	36	-	04	04	40

Designing and development for high nutrient efficiency diet	01	-	18	18	-	02	02	20
Minimization of nutrient loss in processing	01	-	18	18	-	02	02	20
Gender mainstreaming through SHGs	01	-	18	18	-	02	02	20
Storage loss minimization techniques	01	-	18	18	-	02	02	20
Value addition	03	-	54	54	-	06	06	60
Income generation activities for empowerment of rural Women	01	-	18	18	-	02	02	20
Location specific drudgery reduction technologies	01	-	18	18	-	02	02	20
Rural Crafts								
Women and child care	02	-	36	36	-	04	04	40
<b>VI Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
<b>VII Plant Protection</b>								
Integrated Pest Management	04	72		72	08		08	80
Integrated Disease Management	04	72		72	08		08	80
Bio-control of pests and diseases	-	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-
<b>VIII Fisheries</b>								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								

Edible oyster farming								
Pearl culture								
Fish processing and value addition								
<b>IX Production of Inputs at site</b>								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
<b>X Capacity Building and Group Dynamics</b>								
Leadership development	01	18	-	18	02	-	02	20
Group dynamics	04	72	-	72	08	-	08	80
Formation and Management of SHGs(HS)								
Mobilization of social capital	04	72	-	72	08	-	08	80
Entrepreneurial development of farmers/youths (Agro.)	01	18	-	18	02	-	02	20
WTO and IPR issues								
Others(Capacity building for ICT)	04	72	-	72	08	-	08	80
<b>XI Agro-forestry</b>								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
<b>XII Others (Pl. Specify)</b>								
<b>Crop Improvement</b>								
<b>TOTAL</b>	<b>82</b>	<b>1206</b>	<b>270</b>	<b>1476</b>	<b>134</b>	<b>30</b>	<b>164</b>	<b>1640</b>
<b>(B) RURAL YOUTH</b>								
<b>Mushroom Production</b>	01	08	-	08	02	-	02	10
<b>Bee-keeping</b>	01	08	-	08	02	-	02	10
<b>Integrated farming</b>								
<b>Seed production</b>								
<b>Production of organic inputs</b>	01	08	-	08	02	-	02	10
<b>Integrated Farming (Medicinal)</b>								

<b>Planting material production</b>								
<b>Vermi-culture</b>	-	-	-	-	-	-	-	-
<b>Sericulture</b>								
<b>Protected cultivation of vegetable crops</b>	01	08	-	08	02	-	02	10
<b>Commercial fruit production</b>								
<b>Repair and maintenance of farm machinery and implements</b>								
<b>Nursery Management of Horticulture crops</b>	01	08	-	08	02	-	02	10
<b>Training and pruning of orchards</b>								
<b>Value addition</b>	01	-	08	08	-	02	02	10
<b>Production of quality animal products</b>								
<b>Dairying</b>	01	08	-	08	02	-	02	10
<b>Sheep and goat rearing</b>	01	08	-	08	02	-	02	10
<b>Quail farming</b>								
<b>Piggery</b>								
<b>Rabbit farming</b>								
<b>Poultry production</b>								
<b>Ornamental fisheries</b>								
<b>Para vets</b>								
<b>Para extension workers</b>								
<b>Composite fish culture</b>								
<b>Freshwater prawn culture</b>								
<b>Shrimp farming</b>								
<b>Pearl culture</b>								
<b>Cold water fisheries</b>								
<b>Fish harvest and processing technology</b>								
<b>Fry and fingerling rearing</b>								
<b>Small scale processing</b>								
<b>Post Harvest Technology</b>								
<b>Tailoring and Stitching</b>	01	-	08	08	-	02	02	10
<b>Rural Crafts</b>								
<b>Others (Group dynamics and farmers organization)</b>	02	16	-	16	04	-	04	20
<b>TOTAL</b>	11	72	16	88	18	4	22	110
<b>(C) Extension Personnel</b>								
<b>Productivity enhancement in field crops</b>	01	08	-	08	02	-	02	10
<b>Integrated Pest Management</b>	05	40	-	40	10	-	10	50
<b>Integrated Nutrient management</b>								

<b>Rejuvenation of old orchards</b>								
<b>Protected cultivation technology</b>								
<b>Formation and Management of SHGs</b>	01	08	-	08	02	-	02	10
<b>Group Dynamics and farmers organization</b>	01	08	-	08	02	-	02	10
<b>Information networking among farmers</b>	01	08	-	08	02	-	02	10
<b>Capacity building for ICT application</b>	01	08	-	08	02	-	02	10
<b>Care and maintenance of farm machinery and implements</b>								
<b>WTO and IPR issues</b>								
<b>Management in farm animals</b>	01	08	-	08	02	-	02	10
<b>Livestock feed and fodder production</b>	01	08	-	08	02	-	02	10
<b>Household food security</b>								
<b>Women and Child care</b>	01	-	08	08	-	02	02	10
<b>Low cost and nutrient efficient diet designing</b>	01	-	08	08	-	02	02	10
<b>Production and use of organic inputs</b>	02	16	-	16	04	-	04	20
<b>Gender mainstreaming through SHGs</b>								
<b>Any other (Pl. Specify) ICM</b>	02	16	-	16	04	-	04	20
<b>Nursery Management</b>	01	08	-	08	02	-	02	10
<b>Post harvest management</b>	01	08	-	08	02	-	02	10
<b>TOTAL</b>	<b>20</b>	<b>144</b>	<b>16</b>	<b>160</b>	<b>36</b>	<b>4</b>	<b>40</b>	<b>200</b>
<b>G. Total</b>	<b>113</b>	<b>1422</b>	<b>302</b>	<b>1724</b>	<b>188</b>	<b>38</b>	<b>226</b>	<b>1950</b>

Details of training programmers attached in **Annexure - 1**

### Contd. 3.3 SUMMARY OF TRAINING PROGRAMME

**A.**

Subject	Practicing Farmer								Rural Youths			
	On Campus				Off Campus				On Campus/ Off Campus			
	I	II	III	IV	I	II	III	IV	I	II	III	IV
Crop Production	2	3	2	2	2	3	2	3	-	-	1	-
Plant protection	1	1	1	1	1	1	1	1	-	-	1	1
Horticulture	1	1	1	2	3	2	3	2	-	1	-	1
Live Stock Prod.	1	1	1	1	1	2	2	2	-	1	1	-
Home Sci.	1	1	2	1	3	1	3	3	-	1	-	1
Agri. Extension	1	1	1	1	3	3	2	2	1	-	1	-
<b>Total</b>	<b>7</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>13</b>	<b>12</b>	<b>13</b>	<b>13</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>3</b>
<b>Grand Total</b>	<b>31</b>				<b>51</b>				<b>11</b>			

**B.**

Subject	Sponsored				Extension Functionaries			
	I	II	III	IV	I	II	III	IV
Crop Production	<i>As per H.Q.'s direction</i>				1	1	1	1
Plant protection	-do-				1	-	2	1
Horticulture	-do-				1	1	1	-
Live Stock Prod.	-do-				-	1	1	-
Home Sci.	-do-				-	-	1	1
Agri. Extension	-do-				1	2	1	-
	<b>TOTAL</b>				4	6	7	3
<b>Grand Total</b>	<b>20</b>							

### 3.4 Extension Activities (including activities of FLD programmes

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	05	125	20	145	-	-	-	125	20	145
Kisan Mela	01	400	50	450	15	02	17	415	52	467
Kisan Ghosthi	01	400	50	450	15	02	17	415	52	467
Exhibition	01	400	50	450	15	02	17	415	52	467
Film Show	-	-	-	-	-	-	-	-	-	-
Farmers Seminar										
Workshop										
Group meetings	01	40	-	40	05	-	05	45	-	45
Lectures delivered as resource persons	10	200	20	220	100	-	100	300	20	320
Newspaper coverage	50	-	-	-	-	-	-	-	-	Mass
Radio talks	05	-	-	-	-	-	-	-	-	Mass
TV talks	02	-	-	-	-	-	-	-	-	Mass
Popular articles	02	-	-	-	-	-	-	-	-	Mass
Extension Literature	05	-	-	-	-	-	-	-	-	Mass
Advisory Services										
Scientific visit to farmers field	50	250	-	250	50	-	50	300	-	300
Farmers visit to KVK	200	800	25	825	75	-	75	875	25	900
Diagnostic visits	10	250	50	300	-	-	-	250	50	300
Exposure visits	02	100	-	100	-	-	-	100	-	100
Ex-trainees Sammelan	01	50	-	50	03	-	03	53	-	53
Soil health Camp	03	300	100	400	-	-	-	300	100	400
Animal Health Camp	01	100	-	100	-	-	-	100	-	100
Agri mobile clinic										
Soil test campaigns	02	300	20	320	25	-	25	325	20	345
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	01	10	10	20	-	-	-	10	10	20
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	03	150	30	180	05	-	05	155	30	185
Krishi Mohostva										
Krishi Rath										
Pre Kharif workshop	01	100	25	125	-	-	-	100	25	125
Pre Rabi workshop	01	100	25	125	-	-	-	100	25	125
PPVFRA workshop										
PMFBY Sammelan	02	200	25	225	05	-	05	205	25	230
Soil Health card distribution	02	300	20	320	25	-	25	325	20	345
Any Other (Specify)										
<b>Total</b>	<b>362</b>	<b>4575</b>	<b>520</b>	<b>5095</b>	<b>338</b>	<b>06</b>	<b>344</b>	<b>4913</b>	<b>526</b>	<b>5439</b>

**3.5 Target for Production and supply of Technological products Jan. 2024to Dec. 2024**  
**SEED MATERIALS**

Sl. No.	Crop	Variety	Quantity (q.)
<b>Commercial</b>			
<b>CEREALS</b>	Wheat	WB-2 HD-3086 DBW-88	200 q
<b>OILSEEDS</b>	Mustard	RH -0749/ Available variety	100q
<b>VEGETABLES</b>			
<b>OTHERS (Specify)</b>	Dhencha	Local	Green Manuring
			300.0

**PLANTING MATERIALS**

Sl. No.	Crop	Variety	Quantity (Nos.)
<b>FRUITS</b>	Papaya	Pusa Nanha, Taiwan	1000
<b>SPICES</b>			
<b>VEGETABLES</b>			
	Tomato	Swarna Deepti & Swarna Anmol	2000
	Onion	Bheema Red & Bheema Dark Red	7000
<b>FOREST SPECIES</b>			
<b>ORNAMENTAL CROPS</b>	Marigold	Pusa Mosmi, Pusa Basant	10000
		<b>Total</b>	<b>20000.00</b>

**Bio-products**

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
<b>BIO PESTICIDES</b>				
1				
2				

**LIVESTOCK**

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
Cattle				
GOAT				
SHEEP				
POULTRY				
Pig farming				
<b>FISHERIES</b>				

### **3.6. Literature to be Developed/Published**

**(A) KVK News Letter** (Date of start, Periodicity, number of copies to be published etc.)- Yet to be come

**(B) Literature to be developed/published**

Item	No. of copies
Research paper each scientist	02
Technical reports	35
New letters	15
Technical manual all discipline	05
Poplar articles	20
Extension literature	25
Other (specify)	
<b>Total</b>	<b>110</b>

### **(C) Details of Electronic Media to be Produced**

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD/Audio-Cassette	Vermi-Compost/Pressmud composting	01
2	CD/Audio-Cassette	Balance Nutrient-management in Rabi crops.	01

### **3.7. Success stories/Case studies identified for development as a case. 02**

- a. Brief introduction
- b. Intervention
- c. Output
- d. Outcomes
- e. Impact
  - i) Social economics
  - ii) Bio-Physical
- f. Good Action Photographs

### **3.8 Indicate the specific training need analysis tools/methodology followed for Practicing Farmers**

- a) PRA
- b) Group discussion
- c) Interviews.

#### **Rural Youth**

- a) PRA
- b) Group discussion

#### **In-service personnel**

- a) Departmental Meetings
- b) Group discussions.

### **3.9 Indicate the methodology for identifying OFTs/FLDs**

**For OFT :**

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions

**For FLD :**Nutrient management in Sugarcane, Paddy & Wheat, Control of blast disease in paddy & Weed management in paddy/wheat.

- i) New variety/technology
- ii) Poor yield at farmers level
- iii) Existing cropping system

### 3.10 Field activities

i. Name of villages identified/adopted with block name (from which year) -

S.No.	Name of scientist	Village Name	Block
1	Dr. P.K. Madke	Kaniya Kalyanpur	Simmbhwali
2	Dr. Virendra Pal	Badagpur	Hapur
3	Dr. Vinita Singh	Simmroli	Hapur
4	Dr. Neelam Kumari	Upeda	Hapur
5	Dr. Ashok Singh	Sikhera	Simmbhwali

ii. No. of farm families selected per village : 10

iii. No. of survey/PRA conducted : 01

iv. No. of technologies taken to the adopted villages 02

v. Name of the technologies found suitable by the farmers of the adopted villages:

vi. Impact (production, income, employment, area/technological– horizontal/vertical)

vii. Constraints if any in the continued application of these improved technologies

### 3.11. Activities of Soil and Water Testing Laboratory- NA

Status of establishment of Lab:

#### 3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples				
Water				
Plant				
<b>Total</b>				

## 4.0 LINKAGES

### 4.1 Functional linkage with different organizations

Name of organization	Nature of linkage
Deptt. of Agriculture	Diagnostic survey, Participation in Kisan Mela, Kisan Gosthi, Advisory service, Training and field day.
Deptt. Of Horticulture	Diagnostic survey, Participation in Kisan Mela, Kisan Gosthi, Advisory service, Training and field day.
Deptt. Of Animal Husbandry	Participation in Animal Health camp and Pashu Palak Gosthi, advisory services.
Deptt. of soil conservation	Participation in training programme & advisory services.
IFFCO/KRIBHCO	Participation in training programme
NSC	Seed production programme
NGO's	Participation in training programme
SVPUA&T, Meerut	Participation in Farmer's fair, training prog., technology& meeting
ICAR	Financial support and technology (Newly released varieties and crop management)
IARI & SAU's	Technology (Newly released varieties and crop management)

#### 4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage
1.	Kisan Gosthi	Participation as resource person
2.	Field Day	Participation as resource person
3.	Kisan Mela	Participation as resource person
4	FLD	Participation as resource person
5	Validation trials	Participation as resource person
6	Farmers training	Participation as resource person
7	Exposure Visit	Participation as resource person

#### 5.0 Utilization of hostel facilities

S. No.	Programme	No. of days
1		
	Total	

#### 6.0 Convergence with departments :

Details of the programmes being implemented by your KVK in partnership with other institution

S. No.	Name of Programme	Main Institution (IARI, DBT, DST, UPCAR, etc.)	Duration	Budget (in lakh)
1	F.T.T.	UP Govt.	6 days	0.40
2	ASCI	ICAR	More than 5 days	

## Details of Training Programme

**(i) ON Campus training for Practicing Farmers and farm Women**

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>Ist Quarter</b>											
Crop Production	i Practicing different intercropping methods and its application in intercropping of Urd/moong in spring sugarcane.	10-12 March 24	PF	3	On	18	-	18	2	-	2
	ii. Methods of crop residue management and its role in enrichment of soil organic matter	11-13 March 24	PF	3	On	18	-	18	2	-	2
LPM	i. Care and management of calf during winter season	10-12 Jan. 24	PF	3	On	18	-	18	2	-	2
Plant Protection	i. Integrated disease management in sugarcane	15-18 March 2024	PF	4	On	18	-	18	2	-	2
Horticulture	i. Early sowing techniques & mulching of watermelon and muskmelon under poly low tunnel.	02-05 Jan. 24	PF	4	On	18	-	18	2	-	2
Home Sci.	i. Introduction of gender friendly small tools and implements for enhancement of work efficiency for farm women	05-07 Feb 2024	PF	3	On	-	18	18	-	2	2
Agri. Extension	i. Application of ICT tools in Agriculture.	09-12 jan. 2024	PF	4	On	18	-	18	2	-	2

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IIInd Quarter</b>											
Crop Production	i. Management of sugarcane ratoon and intercropped Urdbean and sugarcane ratoon	03-05 April 24	PF	3	On	18	-	18	2	-	2
	ii. Methods and Management under rice nursery raising, transplanting and integrated nutrient management in rice.	05-07 June 24	PF	3	On	18	-	18	2	-	2
	iii. Introduction with important Indian millets and their methods of cultivation.	21-23 June 24	PF	3	On	18	-	18	2	-	2
Livestock prod.	i. Urea treatment of poor quality roughages like wheat straw and paddy straw.	9-11April 24	PF	3	On	18	-	18	2	-	2
Plant protection	i. Integrated insect & disease management in Cucurbits crop.	18-21 April 24	PF	4	On	18	-	18	2	-	2
Horticulture	i. Planting & layout techniques of mango and guava orchard	10-13 June 2024	PF	4	On	18	-	18	2	-	2
Home Sci.	i. Value addition of staple crops.	18-20 April 21	PF	3	On	-	18	18	-	2	2
Agri. Extension	i. Formation and management of SHGs rural women.	02-05 April 2024	PF	4	On	18	-	18	2	-	2

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IIIrd Quarter</b>											
Crop Production	Importance of millets in human diet and cultivation of Pearl millet and Sorghum.	10-12 July 24	PF	3	On	18	-	18	2	-	2
	Integrated Weed Management in paddy.	24-26 July 24	PF	3	On	18	-	18	2	-	2
Livestock prod.	i. Importance of Mineral mixture in dairy animal.	10-12 July 24	PF	3	On	18	-	18	2	-	2
Plant protection	i. Integrated insect management in Urd	16-19 Aug. 24	PF	4	On	18	-	18	2	-	2
Horticulture	i. Marigold & chrysanthemum in complete packages and practices.	05-08 Aug. 2024	PF	4	On	18	-	18	2	-	2
Home Sci.	i.Low budget nutritious food ii. Balance diet for children to improve health	01-03 July 2024 22-24 Aug. 24	PF PF	3 3	On On	- -	18 18	18 18	- -	2 2	2 2
Agri. Extension	i. e-Governance platforms awareness and impact of FPOs.	14-17 Aug. 2024	PF	4	On	18	-	18	2	-	2

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IVth Quarter</b>											

Crop Production	i. Introduction to modern composting methods and its production technique of quality vermicompost.	09-11 Oct. 24	PF	3	On	18	-	18	2	-	2
	ii. Selection of improved timely sown varieties of wheat and their seed production technology.	04-06 Nov 24	PF	3	On	18	-	18	2	-	2
LPM	i. Balance feeding of cattle and buffaloes.	7-9 Oct. 24	PF	3	On	18	-	18	2	-	2
Plant Protection	i. Integrated insect & disease management in m rabi pulses.	16-19 Nov. 24	PF	4	On	18	-	18	2	-	2
Horticulture	Intercropping of spices crop with autumn planting of sugarcane.	03-06 Oct. 24	PF	4	On	18	-	18	2	-	2
	Improved vase life and post harvest management of Gladiolus crop.	24-27 Dec.24	PF	4	On	18	-	18	2	-	2
Home Sci.	Household food security by nutrition gardening through organic farming	23-25 Oct. 24	PF	3	On	-	18	18	-	2	2
Agri. Extension	i. Online marketing of Agricultural commodities on e-governance platform and future markets.	23-26 oct. 2024	PF	4	On	18	-	18	2	-	2

## (ii) OFF Campus training for Practicing Farmers and Farm Women

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>Ist Quarter</b>											
Crop Production	Ratoon management of sugarcane crop	19 Jan. 24	PF	1	Off	18	-	18	2	-	2
	Establishment of Integrated Farming System Model for small and marginal farmers	02 Feb 24	PF	1	Off	18	-	18	2	-	2
LPM	Mastitis diseases in milch animals its causes and control.	15 Mar.24	PF	1	Off	18	-	18	2	-	2
Plant Protection	Technique and importance of Seed treatment in <i>zaid</i> crops	12 Feb. 2024	PF	1	Off	18	-	18	2	-	2
Horticulture	i. Inter cultural operation in Onion crop	16 Jan. 24	PF	1	Off	18	-	18	2	-	2
	ii. Post harvest management of spices crop.	19 Feb. 24	PF	1	Off	18	-	18	2	-	2
	iii. Sowing techniques of cucurbits crops.	27 Feb. 24	PF	1	Off	18	-	18	2	-	2
Home Sci.	Minimization of nutrient loss in processing	29 Jan. 24	PF	1	Off	-	18	18	-	2	2
	Health`s benefits and nutritious value of sahjan	22 <sup>nd</sup> Feb,24	PF	1	Off	-	18	18	-	2	2
	Creation of selfhelp group and its benefit of farm women for income generation.	20 <sup>th</sup> March, 24	PF	1	Off	-	18	18	-	2	2
Agri. Extension	i. Role of ICT tools in Agriculture.	04 Jan. 2024	PF	1	Off	18	-	18	2	-	2
	i. Preparation of Business plan for FPOs .	05 Feb. 2024	PF	1	Off	18	-	18	2	-	2
	ii. Awareness among farmers importance of natural farming.	14 March 2024	PF	1	Off	18	-	18	2	-	2

Subject	Title	Date	Clientele	Duration in days	Venue off/ on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IInd Quarter</b>											

Crop Production	Production technology and scientific management of late planted sugarcane crop.	10 April 24	PF	1	Off	18	-	18	2	-	2
	Field sanitation and weed management during summer.	03 May 24	PF	1	Off	18	-	18	2	-	2
	Production technology of Sorghum and Pearl millet.	19 July 24	PF	1	Off	18	-	18	2	-	2
LPM	Green fodder production throughout the year	13 May 24	PF	1	Off	18	-	18	2	-	2
	Balance ration for milch animals and heifers	28 June 24	PF	1	Off	18	-	18	2	-	2
Plant protection	i. Integrated insect management in sugarcane	25 May 24	PF	1	Off	18	-	18	2	-	2
Horticulture	i. Cultivation techniques of okra on ridges bed system.	03 April 2024	PF	1	Off	18	-	18	2	-	2
	I. Planting techniques in Banana crop.	24 April 2023	PF	1	Off	18	-	18	2	-	2
Home sci.	i. Preparation of mango pickle in kharif	14 May 2024	PF	1	Off	-	18	18	-	2	2
Agri. Extension	i. Application of Tricards and sticky traps in agriculture .	19 April 2024	PF	1	Off	18	-	18	2	-	2
	ii. Promotion and awareness of various government schemes of agriculture.	21 May 2024	PF	1	Off	18	-	18	2	-	2
	iii. Application of ICT tools in agriculture.	06 June 2024	PF	1	Off	18	-	18	2	-	2

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IIIrd Quarter</b>											
Crop Production	i.Sulphur management and thinning in Mustard.	01 Oct. 24	PF	1	Off	18	-	18	2	-	2
	ii. Production technology and intercropping in autumn planted.	15 Oct. 24	PF	1	Off	18	-	18	2	-	2
Horticulture	i. Fertilizer management in Marigold crop.	13 July 24	PF	1	Off	18	-	18	2	-	2
	i. Preparation of nursery in Tomato crop	24Aug 24	PF	1	Off	18	-	18	2	-	2
	i.Sowing techniques in Gladiolus crop	28 Sept. 24	PF	1	Off	18	-	18	2	-	2
LPM	Effect of deworming in farm animals	16 July 2024	PF	1	Off	18	-	18	2	-	2
	Infertility problem in dairy animal.	12 Aug. 24	PF	1	Off	18	-	18	2	-	2
Plant Protection	i. Management of termite in <i>kharif</i> crops	20 July 24	PF	1	Off	18	-	18	2	-	2
Home Scie.	Role of women in agriculture	28 <sup>th</sup> Aug, 24	PF	1	Off	-	18	18	-	2	2
	Selection, grading and selling of food items.	17 Sept, 24	PF	1	Off	-	18	18	-	2	2
	Household food security by nutrition gardening through organic farming	23 <sup>rd</sup> Sept, 24	PF	1	Off	-	18	18	-	2	2
Agri. Extension	i. Awareness and promotion of e-governance platforms among farmers.	10 July. 2024	PF	1	Off	18	-	18	2	-	2
	ii. Organic vegetables value chain model development through group formation.	27 Sept. 2024	PF	1	Off	18	-	18	2	-	2

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IVth Quarter</b>											
Crop Production	Production technology of timely sown wheat.	25 Oct. 24	PF	1	Off	18	-	18	2	-	2
	Integrated Weed Management in wheat.	12 Nov. 24	PF	1	Off	18	-	18	2	-	2
	Methodology of natural farming and production of inputs under natural farming	27 Nov 24	PF	1	Off	18	-	18	2	-	2
Horticulture	i. Sowing techniques in vegetable pea.	10 Oct 24	PF	1	Off	18	-	18	2	-	2
	i. Planting of Garlic on ridges bed system.	20 Nov.24	PF	1	Off	18	-	18	2	-	2
LPM	Care and management of newly born calves.	08 Nov. 24	PF	1	Off	18	-	18	2	-	2
	Care of milch animals and calves in winter season.	12 Dec. 24	PF	1	Off	18	-	18	2	-	2
Plant Protection	i. Management of early and late blight disease in potato	18 Dec. 2024	PF	1	Off	18	-	18	2	-	2
Home Sci.	i. Awareness of Immunization and its schedule	20 Oct. 24	PF	1	Off	-	18	18	-	2	2
	ii.Reduction of time & drudgery by the use of improved Agricultural implements	20 <sup>th</sup> Nov., 2024	PF	1	Off	-	18	18	-	2	2
	iii. Role of vitamin & minerals in diet	20 <sup>th</sup> Dec., 2024	PF	1	Off	-	18	18	-	2	2
Agri. Extension	Promotion of Post harvest management practices in Agri. To start new startups	26 Nov. 2024	PF	1	Off	18	-	18	2	-	2
	Management and leadership skill development among FPO members.	10 Dec. 2024	PF	1	Off	18	-	18	2	-	2

## ON Campus/ OFF Campus : Vocational training programme for Rural Youth (ON/OFF Campus)

Subject	Title	Date	Thrust Area	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
							M	F	Total	M	F	Total
<b>Ist Quarter</b>												
Agri. Extension	Formation and impact of SHGs on progress of rural women	Jan-March 2024	Group Dynamics and farmers organization	RY	21	On/Off	08	-	08	2	-	2
<b>IIInd Quarter</b>												
LPM	Dairy Farming.	June 24	Promotion of Dairy farming	RY	21	On/Off	08	-	08	2	-	2
Horticulture	Propagation techniques and nursery management of fruits crop.	May to June. 24	Nursery management	RY	21	On/Off	08	-	08	2	-	2
Home Sci.	Processing and value addition of mango	June. 24	Value addition	RY	21	On/Off	-	08	08	-	2	2
<b>IIIrd Quarter</b>												
Crop production	Technique of composting and production for good quality vermicompost	Sept. 24	Organic manure	RY	21	On/Off	08	-	08	2	-	2
Plant Protection	Production technology of Mashroom.	Aug to sept. 2024	Mushroom Production	RY	21	On/Off	-	08	08	-	2	2
LPM	Goat farming	Sept. 24	Goat farming	RY	21	On/Off	08	-	08	2	-	2
Agri. Extension	Formation and management of FPOs for development of sustainable agri-value chain.	July-Sept. 2024	Group Dynamics and farmers organization	RY	21	On/Off	08	-	08	2	-	2
<b>IV<sup>th</sup> Quarter</b>												
Horticulture	Off season Vegetable	Dec. 24 to	Protected Cultivation	RY	21	On/Off	08	-	08	2	-	2

	production & nursery management techniques under poly house.	Jan 25										
Plant protection	Bee Keeping	Oct. 2024 to Nov. 2024	Bee-Keeping	RY	21	On/Off	08	-	08	2	-	2
Home Sci.	Clothing making- Embroidery, Stitching	Dec. 24	Women empowerment	RY	21	On/Off	08	-	08	2	-	2

### (iii) Training Programme for Extension Functionaries

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total

<b>Ist Quarter</b>											
Crop Production	Production technology of intercrop in spring sugarcane	23 Feb. 24	EF	1	On/Off	08	-	08	2	-	2
Horticulture	Intercropping of cucurbits with spring sugarcane	04 March 24	EF	1	On/Off	08	-	08	2	-	2
Plant Protection	Effect of pesticides on honey bees and their importance in agriculture.	22 Feb. 24	EF	1	On/Off	08	-	08	2	-	2
Agri. Extension	Importance and use of ICT tools in Agriculture	02 Feb. 24	EF	1	On/Off	08	-	08	2	-	2

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IIInd Quarter</b>											
Crop production	i. Production technology of major Indian millets.	08 May 24	EF	1	On/Off	08	-	08	2	-	2
Horticulture	Nursery management of early variety of cauliflower.	14 May 24	EF	1	On/Off	08	-	08	2	-	2
Plant protection	Identification of important prasitoides and predators of insect pest affecting Paddy and sugarcane crops.	25 June 2024	EF	1	On/Off	08	-	08	2	-	2
LPM	Management of milking animal during summer season.	21 May 24	EF	1	On/Off	08	-	08	2	-	2
Agri. Extension	Promotion of new agri-startups among SHGs rural women for generation of income.	07 May 24	EF	1	On/Off	08	-	08	2	-	2
	Importance and promotion of soil health management and natural farming.	25 June 2024	EF	1	On/Off	08	-	08	2	-	2
<b>IIIrd quarter</b>											
Crop production	Methods of composting and production for quality vermicompost	07 Aug. 24	EF	1	On/Off	08	-	08	2	-	2
Horticulture	Use of value addition of various medicinal and aromatic plant.	04 Aug. 24	EF	1	On/Off	08	-	08	2	-	2
LPM	Importance of mineral mixture & vitamins in animal feeds	26 Sept. 24	EF	1	On/Off	08	-	08	2	-	2
Plant Protection	Introduction of IPM technologies.	01 Aug. 2024	EF	1	On/Off	08	-	08	2	-	2
	Use of pesticides in pigeon pea crop.	28 Sept. 24	EF	1	On/Off	08	-	08	2	-	2
Home Sci.	Health's benefits and nutritious value of sahan (Drum stick)	30 August, 2024	EF	1	On/Off	-	08	08	-	2	2
Agri. Extension	Branding and Digital marketing for successful agri-business development through FPOs and SHGs.	11 Sept. 24	EF	1	On/Off	08	-	08	2	-	2

<b>IVth Quarter</b>										
Crop Production	Integrated weed management in major <i>Rabi</i> crops	22 Nov. 2024	EF	1	On/Off	08	-	08	2	- 2
Plant Protection	Use and Importance of bio pesticides on crop production.	25 Nov. 24	EF	1	On/Off	08	-	08	2	- 2
Home Sci.	Anemia during pregnancy: its causes prevention and treatment	21 Oct. 2024	EF	1	On/Off	-	08	08	- 2	2