

DETAILS OF ACTION PLAN OF KVK DURING 2019-20
(1st April, 2019 to 31st March, 2020)

INDEX

S. No.	Topic	Page No.
1.	General information about the KVK	1-7
2.	Details of the district	8-13
3.	Technical programme	14
4.	Abstract of interventions to be undertaken	15-18
5.	Technologies to be assessed and refined	19-24
6.	Frontline demonstrations	25-26
7.	Training	27-38
8.	Extension activities	39-40
9.	Target for production and supply of technological products	41
10.	Literature to be developed/published	42
11.	Indicate the specific training, identifying OFTs/FLDs and field activities	43
12.	Activities of soil and water testing Laboratory	44
13.	Linkages	44
14.	Details of linkages with ATMA	45
15.	Annexure I (Details of training programme)	46-49
16.	Annexure II (Details of frontline demonstration)	50

DETAILS OF ACTION PLAN OF KVK DURING 2019-20
(1st April, 2019 to 31st March, 2020)

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, Village & Post -Ujwa, Nazafgarh, New Delhi - 110073	9667971155	011-28525129	kvkujwa@yahoo.com	www.kvkdelhi.org

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

Address	Telephone		E mail	Website
	Office	FAX		
National Horticultural Research & Development Foundation (NHRDF), 47, Pankha Road Institutional Area, Janakpuri, New Delhi, Pin: 110058	011- 28522211, 28524150	011-28525129	delhi@nhrdf.com	www.nhrdf.com

1.2.b. Status of KVK website : Yes

1.2.c. No. of Visitors (Hits) to your KVK website (1st April 2019) : 37669

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








1.3. Name of the Programme Coordinator with phone & mobile no.

Name	Telephone / Contact		
	Office	Mobile	Email
Dr P.K. Gupta	9667971155	8888867619	drpkgupta11@gmail.com

1.4. Year of sanction: 1995

1.5. Staff Position (as on 31st March, 2019)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent/Temporary	(SC/ST/OB C/)	Mobile No.	Email id	Please attach recent
1	Programme Coordinator	Dr P.K. Gupta	PC	Horticulture	37400-67000	9000	38800+9000	28.02.17	Temp.	Gen	8888867619	kvkujwa@yahoo.com	
2	Subject Matter Specialist	Ritu Singh	SMS (H.Sc)	Home Science	15600-39100	5400	25480+5400	10.02.05	-do-	Gen	9818550652	-do-	
3	Subject Matter Specialist	Rakesh Kumar	SMS (Hort)	Horticulture	15600-39100	5400	25480+5400	22.09.05	-do-	Gen	9313047633	-do-	
4	Subject Matter Specialist	Dr. D. K. Rana	SMS (PP)	Plant Pathology	15600-39100	5400	21220+5400	5.05.10	-do-	Gen	9310904705	-do-	
5	Subject Matter Specialist	Dr Samar Pal Singh	SMS (Agro)	Agronomy	15600-39100	5400	15600+5400	25.05.18	-do-	Gen	8650399054	-do-	
6	Subject Matter Specialist	Sh Kailash	SMS (AE)	Agriculture Extension	15600-39100	5400	15600+5400	27.06.18	-do-	Gen	9413060922	-do-	
7	Subject Matter Specialist	Dr Arpita Sharma	SMS (Agro met)	Agro-Metrology	15600-39100	5400	15600+5400	1.03.19	-do-	Gen	9070601618	-do-	
8	Subject Matter Specialist	Dr Raghubir Singh	SMS (AH)	Animal Husbandry	15600-39100	5400	15600+5400	25.03.19	-do-	Gen	9149837754	-do-	
9	Programme Assistant	Brijesh Yadav	PA (SS)	Soil Science	9300-34800	4200	11010+4200	17.02.14	-do-	Gen	7065787046	-do-	
10	Computer Programmer	Manju	PA (Comp)	Computer Science	9300-34800	4200	13980+4200	2.05.08	-do-	Gen	9718666917	-do-	
11	Farm Manager	Ram Sagar	Farm Manager	Agriculture	9300-34800	4200	9300+4200	1.03.19	-do-	Gen	8953751501	-do-	

12	Accountant / Superintendent	V. K. Dixit	OSCA	Administration and accounts	9300-34800	4200	20160+4200	21.10.05	-do-	Gen	9911395569	-do-	
13	Agromet Observer	Vishal	Agromet Observer	Agromet Observer	5200-20200	2000	5200+2000	1.3.2019	-do-	Gen	9466803902	-do-	
13	Stenographer	Atma Ram	Store Keeper	Administration	5200-20200	1900	9590+1900	10.02.05	-do-	Gen	9013553955	-do-	
14	Driver	Rajesh Kumar	Driver	Jeep Driver	5200-20200	1900	9580+1900	02.02.05	-do-	Gen	9899426775	-do-	
15	Driver	Krishan	Driver	Tractor Driver	5200-20200	1900	8540+1900	02.05.08	-do-	Gen	8506920345	-do-	
16	Supporting staff	Ramesh Chander	Attendant	Administration	4440-7440	1800	7680+1800	10.02.05	-do-	Gen	9560290407	-do-	
17	Supporting staff	Sachin Kumar	Attendant	Administration	4440-7440	1800	5200+1800	18.05.18	-do-	Gen	9012564616	-do-	

1.6. Total land with KVK (in ha) : 14.9

S. No.	Item	Area (ha)
1	Buildings	0.7
2.	Demonstration Units	0.3
	a. Mushroom compost pasteurized	
	b. Mushroom production	
	c. Vermicompost	
	d. Azolla	
	e. Apiculture	
	f. Shade net house	
	g. Insect proof net house	
3.	Crops	10.0
4.	Horticulture	0.6
5.	Rain Water Harvesting Pond	0.02
6.	Others if any	
	a. Forestry	1.78
	b. Onion Storage	1.5

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	17.2.2011	548.3	54,38,664/-			
2.	Farmers Hostel		NIL					
3.	Staff Quarters		NIL					
4.	Demonstration Units :				967261/-			
	Mushroom unit	State Govt	1998	250 m ²	-			
	Vermicompost unit	ICAR	2016	30 m ²	200000/-			
	Azolla unit	ICAR	2018	25 m ²	25000/-			
	Insect proof net house	NHRDF	2018	50 m ²	125000/-			
	Apiculture	NHRDF	2018	10 box	100000/-			
	Kinnow orchard	NHRDF	2018	1 acre	80000/-			
	Water harvesting	ICAR	2017	200 m ²	150000/-			
	Drip irrigation system	NHRDF	2019	2 acre	287261/-			
5	Fencing		NIL					
7	Threshing floor	ICAR	17.2.2011	222.3	1,92,031/-			
8	Farm godown	ICAR	31.3.2011	35.0	1,99,869/-			
	Other		NIL					

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms Run	Present status
Tractor	1997	231242	1047*	Condemnation
Scooter	1995	21818	-----	Not working
Motorcycle	2000	47063	51784	Not working
Jeep	2017	800000	27568	New
Tractor	2017	700000	570.9*	New

*In hours

C) Equipments & AV aids

Name of the equipment	Number of Equipment	Year of purchase	Cost (Rs.)	Present status
Harrow	1/49	1999	8600	Working condition
Seed drill machine	1/153	1997	6150	Working condition

Computer	4/215	2010	25725	Working condition
Computer	5/215	2011	24210	Working condition
R.O	1/12	2014	15500	Working condition
Finger print attendance machine	1/29	2014	11250	Working condition
Heat convector	2-3/30	2014	1800	Working condition
Refrigerator	2/63	2011	11200	Working condition
Room cooler	2-4/159	2012	20402	Working condition
Printer	4/214	2012	5350	Working condition
Trolley	3/53	2016	158832	Working condition
Plastic palates	1-8/40	2016	29560	Working condition
Water cooler with RO	2/19 1/42	2016	42550	Working condition
Desert cooler	5-9/119	2014	25594	Working condition
Cultivator	1/50	1997	1672	Working condition
Tractor trolley	1/53	1998	11000	Working condition
Scanner	1/227	2010	4148	Working condition
Speaker	1/229	2010	1733	Working condition
Photocopier machine	2/241	2011	35000	Working condition
Laptop	1/242	2011	36170	Working condition
Small autoclave	1/1	2012	67280	Working condition
Hot air oven	½	2012	45016	Working condition
Laminar flow	1/3	2012	78874	Working condition
Colony counter	¼	2012	6156	Working condition
B.O.D. incubator	1/5	2012	107730	Working condition
Microscope	1/13	2012	37822	Working condition
Refrigerator	11/7	2012	32600	Working condition
Electric balance	1/14	2012	42750	Working condition
Water distillation	1/12	2012	25650	Working condition
pH meter	1/15	2012	19687	Non working condition
EC meter	1/16	2012	21038	Non working condition
Spectrophotometer	1/17	2012	39150	Non working condition
Flame photometer	1/18	2012	60750	Non working condition
Computer	1/19	2012	34000	Working condition
Air conditioner	1/6	2012	33975	Working condition
Laptop	1/10	2012	37000	Working condition

Sprit lamp	1-2/19	2012	157	Working condition
Stabilizer	1/7	2012	2000	Working condition
Hygrometer	1/22	2012	473	Working condition
Planker (wood pata with chain)	2/57	2016	8947	Working condition
Mrida parikshak soil testing Mini Lab	1/50	2015	75000	Non working condition
Mrida parikshak soil testing Mini Lab	2/51	2017	90300	Working condition
Inverter set	2/43	2016	24700	Working condition
Harrow	3/49	2017	57000	Working condition
Leveler	2/52	2017	13000	Working condition
Lecture stand	2/23	2017	8000	Working condition
Cultivator	3/50	2017	23800	Working condition
Printer	5/214	2017	15044	Working condition
Computer	1-2/215	2017	80850	Working condition
UPS	7-8/216	2017	4106	Working condition
Head phone	1/245	2017	400	Working condition
Mulcher single speed	1-2/61	2018	336000	Working condition
Shurb master	1-2/69	2018	103040	Working condition
Hydrolic reversible 2MB plough	1/72	2018	135615	Working condition
Wireless walky phone	3/86	2018	1750	Working condition
Happy seeder 10 row	1-2/90	2018	332640	Working condition
Zero till seed cum fertilizer drill	1-3/92	2018	183849	Working condition
TATA sky DTH connection	1/229	2018	2530	Working condition
Airtel 4G home wifi router	1/232	2018	2500	Working condition
Gramin GPS 72 H	1/242	2017	9984	Working condition
Fire extinguisher	1-3/55	2018	6372	Working condition

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

Sl. No.	Date
1. Scientific Advisory Committee	1 st Week of July, 2019 & 1 st Week of October, 2019

2. DETAILS OF DISTRICT

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	Agri-Dairy System (with rice in <i>Kharif</i> and wheat in <i>Rabi</i> as major crops)
2	Agri-Pastoral-Oilseed- Dairy system (Mustard as major oilseed crop and Jowar-Bajra as fodder crop)
3	Agri- Horticulture (Floriculture) system
4	Agri- Vegetables-Dairy system
5	Agri-Horticulture (Mushroom) system

2.2 Description of agro-climatic zone & major agro ecological situations (based on soil and topography)

a) Soil type

S.No.	Agro-Climatic Zone	Characteristics
1	Trans- Gangatic Plains region (Zone VI)	Semi-Arid, low rainfall, variation in temperature (2 - 48 °C), frost occur once or twice in the year.

b) Topography

S. No.	Agro ecological situation	Characteristics
1	Climate	The state has three seasons viz., winter (Nov-Mar), summer (Apr-June) & Rainy season (July-Oct). The rainfall occurs during the month of July-Sept with occasional showers during Dec- Jan. The range of rainfall in the region varied between 420-780 mm. The summer season is quite hot and winter is fairly cool.

2.3 Soil Types

S. No	Soil type	Characteristics	Area (in ha)
1	Sandy loam/ Sandy clay loam	Light to medium in texture, low water holding capacity, pH slightly saline with low organic matter content. Wide range of crops can be grown but constraint is saline water for irrigation.	49702.00

2.4. Area, Production and Productivity of major crops cultivated in the State (2018-19)

S. No	Crop	Area (ha)	Production (MT)	Productivity (Q/ha)
1	Paddy	5854	25258	43.14
2	Wheat	19350	83419	43.11
3	Barley	62	181	29.19
4	Bajra	1482	3258	21.97
5	Maize	34	174	51.18
6	Jowar	3161	3035	09.60
7	Gram	05	10	20.00
8	Potato	436	9273	21.26
9	Mustard	3593	4527	12.60
11	Vegetable	Data not available		
12	Flowers	5995	Data not available	Data not available

Source: State Agriculture Department, Govt. of NCT Delhi

2.5. Weather data (2018-19)

Month	Rainfall (mm)	Mean Temperature °C	
		Maximum	Minimum
April, 2018	12.00	37.08	21.50
May, 2018	3.00	39.40	24.15
June, 2018	134.00	39.94	29.70
July, 2018	400.50	35.93	27.49
August, 2018	155.00	34.40	27.51
September, 2018	138.00	32.60	25.60
October, 2018	0.0	33.30	19.10
November, 2018	0.0	28.50	13.40
December, 2018	7.50	22.90	06.97
January, 2019	16.60	21.10	06.80
Total	866.6 mm	325.15	202.22
Average		32.52	20.22

2.6. Production and productivity of livestock, poultry, fisheries etc. in the state

Category	Population	Production	Productivity
Cattle	86433		
Crossbred	47935	606232 L Milk	12.65 L / Animal/ Day
Indigenous	24498	97683 L Milk	3.98 L / Animal/ Day
Buffalo	162142	1286925 L Milk	7.94 L / Animal/ Day
Sheep	932		
Crossbred	654	9425 Kg/ Meat	14.4 Kg/ Animal
Indigenous	278	3529 Kg/ Meat	12.6 Kg/ Animal
Goats	30470	262042 Kg/ Meat	8.6 Kg/ Animal
Pigs	76346	Data not Available	Data not Available
Crossbred	8581		
Indigenous	67765		
Rabbits	6706		
Poultry	44000	58225 Kg/ Meat	1.33 Kg/ Bird
Hens	32202	Data not Available	Data not Available
Desi	20530		
Improved	2667		
Ducks	2140		
Turkey and others	1329		

Category	Area	Production	Productivity
Fish			
<i>Marine</i>			
<i>Inland</i>	4000 Ha	70010 ton/year	0.178 ton/ha/year
Prawn	Data not Available		
Scampi			
Shrimp			

Source- Govt. of NCT Delhi

2.7 Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust areas
Narela	Alipur	Tigipur, Sungerpur, Palla and Dariyapur (Bawana).	<p>Crops: Wheat, Paddy, Jowar-Bajra and Vegetables.</p> <p>Enterprises: Poultry, Dairy, Mushroom, Vegetables and Floriculture.</p>	<ul style="list-style-type: none"> • Poor soil fertility. • Weed infestation • Post harvest losses in cereals, vegetables and crops • Low productivity in dairy animals. • Problem of ectoparasites in animals. • Disorders in vegetable crops • Poor poultry management. • Unorganized enterprises and poor marketing. 	<ul style="list-style-type: none"> • Soil test based fertilizer recommendation (STFR). • Integrated Nutrient Management. • Use of Ivermectin and deltamethrin to control ectoparasites. • Use of calcium and minerals to improve productivity in animals. • Integrated weed management. • Promotion of income generation activities. • Formation of farmers producers organization (FPO).

Nazafgarh/Palam	Nazafgarh and Kapashera	Kanganheri, Jhatikra, and Malikpur.	<p>Crops: Wheat, Mustard, Paddy, Bajra, Fodder, vegetables.</p> <p>Enterprises: Dairy, Value addition to agriculture produce and Happy seeder/zero tillage sowing (Wheat)</p>	<ul style="list-style-type: none"> Poor soil fertility & Imbalance use of fertilizer. Traditional sowing & field preparation techniques. Problem of diseases and pest. Problem of repeat breeding and low productivity in milch animals. Problem of endo-parasite and ecto-parasite in animals. Disorders in vegetable crops. Post harvest losses in cereals, millets, fruits and vegetables crops. Wide spread nutrient deficiency among rural youths & rural women. Vegetable nursery raising in open condition. 	<ul style="list-style-type: none"> Integrated Nutrient Management. Water management. Promotion of salt tolerant varieties. Promotion of resource conservation technologies to get higher return. IDM & IPM. Mineral supplementation, balanced ration feeding and deworming in milch animals. Value addition of locally grown crops. Nutritional awareness among masses. Vegetables/Nursery raising under protected condition. Popularization of improved varieties of wheat, mustard & vegetables. Promotion of organic farming Clean milk production
Shahdara	Shahdara	Shamaspur jagir, Nanglirajpur, Jhil Khurenja.	<p>Crop: Vegetables.</p>	<ul style="list-style-type: none"> Disorders in vegetable crops. Problem of diseases. Dependency on insecticides and pesticides. 	<ul style="list-style-type: none"> IDM Promotion of organic farming Integrated Nutrient Management. Awareness to reduce use of pesticides and insecticides.

2.8 Priority thrust areas

Crop/Enterprise	Thrust area
Paddy & Wheat	Popularization of HYV, resources conservation techniques-zero tillage, direct seeded rice, irrigation scheduling, integrated approaches of nutrient management /weed management / pest management and soil fertility management,
Mustard	Screening of high yielding varieties of Rapeseed-Mustard in NCT Delhi, integrated approaches of nutrient management /weed management / pest management and soil fertility management
Vegetables (cucurbits, cauliflower, onion, leafy &	Soil fertility management, integrated pest management, biological control of pest & diseases, post harvest management, weed and nutrient

tomato)	management, seed treatment, nursery raising, promotion of organic farming.
Flowering	Landscaping, Nursery raising of ornamental plants.
Animal Husbandry	Vaccination, repeat breeding, infectious and metabolic disease control & feed management in milch animals.
Fruits (Aonla, Karonda, Guava, Strawberry & Papaya)	Promotion of HYV, IPM and Value Addition in fruit crops
Women in Agriculture	Women empowerment, preservation of fruits & vegetables, Health and nutrition awareness and promotion of kitchen garden in rural areas and post harvest management.
Agri-based enterprise	Entrepreneurship development in agriculture (value addition, dairy, nursery raising of vegetable crops, mushroom cultivation, vermi -compost & bee keeping)
Market linkage	Formation of Farmer Producer Organization to strengthen farm based linkages/link farmers to markets and E-Market linkage (e-NAM)

3. TECHNICAL PROGRAMME

3.A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
8	40	85.4	223

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
68	1345	494	2695

Seed Production (q)	Planting material (Nos.)	Fish seed prod. (Nos.)	Soil Samples
(5)	(6)	(7)	(8)
140 q	5000	-	500

3. B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1.	Health awareness, nutritional supplementation along with the promotion of nutritive kitchen garden in rural areas.	-	Unhygienic conditions and poor health, nutritional status of farm women.	-	FLD on nutritional kitchen gardening and pearl millet	Household food and nutritional security.	Women and child care	Extension literature, TV talk, news coverage.	Seeds & seedlings
2.	IPM				-	Management of DBM by neem based pesticide	IPM in vegetables	Extension literature, TV talk, news coverage etc.	Neem pesticide.
3.	IDM	Mustard	Stem rot incidence	-	FLD on Stem rot in mustard		IDM in vegetables	Extension literature, TV talk, news coverage etc	<i>Trichoderma viride</i>
4.	ICT	Enterprise	Delay and lack of interactive audio visual based agriculture information dissemination	Assessment of Various ICTs , dissemination of agriculture information and communication to the farmers	-	-	-	-	-
5.	Impact Assessment	Enterprise	Intensive tillage practices in rice- wheat cropping system causes low yield and poor soil fertility.	Assessment of conservation technology in wheat sowing by zero-till seed cum fertilizer drill.	-	-	-	-	-

6.	ICT	Enterprise	Unawareness among farmers on new and innovative technologies	-	Demonstration using print media in popularization of new technologies	-	-	Distribution of extension literatures and printing material (Folder, Pamphlets, leaflet etc.)	-
7.	ICT	Enterprise	Farmers are not united for their common interest	-	Demonstration of work efficiency among farmers through Farmers Interest Group (FIGs)	-	-	1 Group (10-15 Farmers)	-
8.	Income Generation	Enterprise (Digital Marketing, Organic Farming etc.)	Non awareness of digitalization of marketing among farmers and rural youth.	-	-	To develop the skills among farmers and rural youth by providing modern technologies training to generate income.	-	Training, success story of successful entrepreneur, extension literature.	-
9.	Resources Conservation Technology	Mustard	Farmers are not practicing the proper irrigation scheduling at critical stages in Mustard	Irrigation scheduling in Mustard crop.	-	-	-	-	-
10.	Nutrient Management	Mustard	Farmers are not using micro-nutrients in Rapeseed-mustard	Effect of foliar application of Boron on mustard crop for higher productivity.	-	-	-	Training and Extension literature	Boron

11.	Improved varietal evaluation	Moong, Mustard, and Wheat	-	-	To establish the production potential of improved technology of crop production on farmers fields through frontline demonstration	Training Programme on improved agro-techniques on Moong, Mustard, and Wheat crops.	-	PRA Survey, Cluster and farmers selection, Kisan goshi, Field visits, Field day and Extension literature	Seed and critical inputs.
12.	Organic Farming	Crops (<i>Kharif and Rabi</i>)	Imbalance use of fertilizers, soil health hazards due to higher use agro-chemicals.	-	-	Promotion of organic farming in NCT of Delhi.	-	Training and Field visits	Extension literature
13.	Repeat breeding in Cattle and ectoparasite infestation.	Cattle	Faulty practices in rearing of animals and improper management.	Evaluation of different formulations of acaricide to control ectoparasite in cattle.	Deworming and minerals supplementation in diet.	-	-	Training and scientific advisory	Extension Literature
14.	Protected cultivation	Cucurbits	Biotic and Abiotic stress	-	-	Off season cultivation	-	Method demonstration, news coverage	-
15.	INM	Cauliflower and Bottle guard.	Nutritional deficiency	Effect of micro nutrients in cauliflower.	-	-	-	-	-
				Response on the application of potash & boron on Bottle guard.					
16.	ICM	Vegetables and Fruits	Packaging & practices among farmers	-	FLD on <i>Kharif & Rabi</i> onion	Good agriculture practices in vegetables, PHT on <i>Rabi</i> onion & New orchard establishment	-	Extension Literature, TV talk, news coverage etc.	-

17.	Skill up gradation	Entrepreneurs hip development	-	-	-	Vocational training on landscaping & gardening, Mushroom cultivation, IFS, Value addition in fruits & vegetables.	-	Extension literature, TV talk, news coverage etc.	-
18.	Women empowerment through skill up gradation	Fruits & vegetables	Post harvest losses and non- skill among farmers.	-	-	Income generating activities for farm women, and skill up gradation in preserving fruits and vegetables.	-	Training manual, Method demonstration, TV talk, news coverage, celebration of Mahila Kisan Divas etc.	-
19.	Post harvest management	Pearl millet, fruits & vegetables	Poor knowledge on post harvest management	Assessment of shelf stability in pearl millet crop for the keeping quality of flour.	-	Value addition in seasonal crops and safe grain storage	high nutrient efficient diet with low cost.	Method demonstration, extension literature, TV, radio talk and lectures.	-
20.	Protected cultivation	Cucurbits	Biotic and Abiotic stress	-	-	Off season cultivation	-	Method demonstration, news coverage	-
21.	ICM	Vegetables and Fruits	Packaging & practices among farmers	-	FLD on <i>Kharif & Rabi</i> onion	Good agriculture practices in vegetables, PHT on <i>Rabi</i> onion & New orchard establishment	-	Extension Literature, TV talk, news coverage etc.	-

3.1 Technologies to be assessed and refined

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management		1			2					3
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition						1				1
Integrated Pest Management		1			2					3
Integrated Disease Management										
Resource conservation technology	1	1								2
Small Scale income generating enterprises										
Other Post harvest management	1									1
TOTAL	2	3			4	1				10

A.2. Abstract on the number of technologies to be refined in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Kitchen garden	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										

Post Harvest Technology									
Integrated Pest Management									
Integrated Disease Management									
Resource conservation technology									
Small Scale income generating enterprises									
TOTAL									

A.3. Abstract on the number of technologies to be assessed in respect of livestock/ enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Vermi culture	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease Management	1							1
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL	1							1

A.4. Abstract on the number of technologies to be refined in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

B. Details of On Farm Trial

OFT-1

Assessment of conservation practices in wheat crop by zero till seed cum fertilizer drill.

Title of OFT	Problem Identified	Major cause of problem	Technological Intervention	Source of technology	Critical Inputs	Cost (Rs) of critical input	Area (ha) of OFT	No. of replication	Performance Indicators
Assessment of conservation practices in wheat crop by	Intensive tillage practices in rice-wheat cropping	Lower fertility of soil due to adopting frequentl	T1– Conventional farmers practice T2–	PAU, Ludhiana	Zero Seed cum Fertilizer Drill	1500/- per demo	0.4	5	Technological Indicator: • Yield & yield attributes

zero till seed cum fertilizer drill.	system	y tillage causes burning of organic matter	Wheat Sowing by Zero Seed cum Fertilizer Drill							<ul style="list-style-type: none"> • Soil health parameters Economic indicators: <ul style="list-style-type: none"> • Cost of cultivation • B:C Ratio Farmers perception: <p>Adoptability / Accessibility</p>
--------------------------------------	--------	--	--	--	--	--	--	--	--	--

OFT-2

Assessment of shelf stability in pearl millet crop for the keeping quality of flour.

Title of OFT	Problem Identified	Major cause of problem	Technological intervention	Source of technology	Critical Inputs	Cost (Rs.) of critical input	Area (ha) of OFT	No. of replication	Performance Indicators
Assessment of shelf stability in pearl millet crop for the keeping quality of flour	Poor shelf life of pearl millet flour	High fat content and lipase activity in the pearl millet flour	Hydrothermal treatment of pearl millet flour: Blanching of pearl millet for 15 minutes, drying and ground to fine flour 200g of ground sample will be stored in LDPE pouch for 1 month	IARI, New Delhi	Pearl millet, LDPE pouches	300	-	5	Technological Interventions: Peroxide value (oxidative rancidity) and Acid value (enzymatic rancidity) and sensory score Farmer's reaction: % adoption

OFT-3

Assessment of foliar application of boron on yield and yield attributes of mustard crops.

Title of OFT	Problem Identified	Major cause of problem	Technological Intervention	Source of technology	Critical Inputs	Cost (Rs) of critical input	Area (ha) of OFT	No. of replication	Performance Indicators
Assessment of Foliar application of Boron on yield and yield attributes of Mustard crops	deficiency of boron in soil (on soil test basis)	Poor seed setting and pods development	<ul style="list-style-type: none"> • T1- Farmers Practice (no use of boron) • T2- Foliar Spray of 0.25 % Boric Acid at 40 and 60 Days After Sowing. 	DRMR, Bharatpur	Boron	280/- per demo	0.4	5	Technological Indicator: <ul style="list-style-type: none"> • Plant growth parameter • Yield & Yield Attributes Economic indicators:

										<ul style="list-style-type: none"> · Net return (Rs/ha) · B:C Ratio Farmers perception: Adoptability / Accessibility
--	--	--	--	--	--	--	--	--	--	--

OFT -4

Management in irrigation scheduling of Mustard crop

Title of OFT	Problem Identified	Major cause of problem	Technological Intervention	Source of technology	Critical Inputs	Cost (Rs) of critical input	Area (ha) of OFT	No. of replication	Performance Indicators
Management in irrigation Scheduling of Mustard Crop	Non-adoption of proper irrigation scheduling at critical stages in mustard crop	Moisture stress at critical stages of crop causes yield reduction	<ul style="list-style-type: none"> • T1- Farmers Practice • T2- Three Irrigations at Vegetative + Flowering + Pod formation 	DRMR, Bharatpur	-	-	0.4	5	Technological Indicator: <ul style="list-style-type: none"> · Plant growth parameter · Yield & Yield Attributes Economic indicators: <ul style="list-style-type: none"> · Net return (Rs/ha) · B:C Ratio Farmers perception: <ul style="list-style-type: none"> · Adoptability / Accessibility

OFT- 5

Assessment of foliar application of micro nutrients in cauliflower.

Title of OFT	Problem Identified	Major cause of problem	Technological Intervention	Source of technology	Critical Inputs	Cost (Rs) of critical input	Area (ha) of OFT	No. of replication	Performance Indicators
Assessment of micro nutrients in cauliflower	Hollow stem & whiptail symptoms	Boron & molybdenum deficiency in cauliflower	T1- Farmer's Practice (No use of micronutrient) T2- Application of Borax @ 0.3% + Ammonium Molybdate @ 0.05% at 45 DAT	IARI, New Delhi	Boron & Molybdenum	750/- per demo	0.4	5	Technological Indicator: <ul style="list-style-type: none"> · Curd size (cm) · Curd Weight (gm) · Average yield per ha Economic

										indicators: <ul style="list-style-type: none"> · Cost of cultivation (Rs/ha) · Net return (Rs/ha) · B:C Ratio Farmers perception: <ul style="list-style-type: none"> · Adoptability/ · Accessibility
--	--	--	--	--	--	--	--	--	--	---

OFT-6

Assessment of integrated nutrients management practices in wheat crop.

Title of OFT	Problem Identified	Major cause of problem	Technological Intervention	Source of technology	Critical Inputs	Cost (Rs) of critical input	Area (ha) of OFT	No. of replication	Performance Indicators
Assessment of integrated nutrients management practices in wheat crop.	Imbalance use of fertilizers in wheat crops	Deficiency of micro nutrients in wheat crop	T ₁ – Farmer's Practice (N&P) T ₂ – Application of fertilizer on soil test basis. N, P, K & Zinc + Bio fertilizers (Liquid NPK & Zinc)	IARI, New Delhi	Azotobacter + PSB + KSB	200/- per demo	0.4	5	Technological Indicator: <ul style="list-style-type: none"> · Soil health parameter · Yield & yield Attributes Economic indicators: <ul style="list-style-type: none"> · Net return (Rs/ha) · B:C Ratio Farmers perception: <ul style="list-style-type: none"> · Adoptability/ · Accessibility

OFT-7

Evaluation of different formulations of acaricide for control of ectoparasite in cattle.

Title of OFT	Problem Identified	Major cause of problem	Technological Intervention	Source of technology	Critical Inputs	Cost (Rs) of critical input	Area (ha) of OFT	No. of replication	Performance Indicators
Evaluation of different formulations of acaricide for control of	Ectoparasite infestation in bovines.	Tick infestation	T ₁ -Farmers practice. T ₂ -Parental route: Ivermectin T ₃ - Oral route:	GADVASU - Ludhiana				3	Technological Indicator: <ul style="list-style-type: none"> No. of tick per sq. feet of body area at

ectoparasite in cattle.			Ivermectin T4- Spray : Deltamethrin T5: Body line marking: Cypermethrin						3 rd , 5 th , 7 th days after treatment
-------------------------	--	--	---	--	--	--	--	--	---

OFT- 8

Assessment of effect of Potash & Boron on Bottle guard.

Title of OFT	Problem Identified	Major cause of problem	Technological Intervention	Source of technology	Critical Inputs	Cost (Rs.) of critical input	Area (ha) of OFT	No. of replication	Performance Indicators
Assessment on the effect of potash & boron on Bottle guard.	Reduced yield due to imbalance nutrition.	Potash and boron deficient soil	T1- Farmers practice T2- Application of potash basal dose @ 70kg/ha and three foliar spray of boron @ 2g/L	CCSHAU, Hissar	Potash and boron	750/- per demo	0.4	5	<p>Technological Indicator:</p> <ul style="list-style-type: none"> . Plant vine length (cm) . Fruit weight(gm) . Average yield per ha <p>Economic indicators:</p> <ul style="list-style-type: none"> . Cost of cultivation (Rs/ha) . Net return (Rs/ha) . B:C Ratio <p>Farmers perception:</p> <p>Adoptability/ Accessability</p>

3.2 Frontline Demonstrations

A. Details of FLDs to be organized -

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demon.	Parameters identified
1	Pearl millet	PC-443	Nutrition security	Promotion of nutrient rich variety	Seed	<i>Kharif</i> 2019	2	5	Presence of micronutrient
2	Nutritional kitchen garden	IARI	Household food security	Terrace/ Kitchen garden in peri-urban area	Seed, planting material	<i>Rabi</i> 2019-20	0.2	10	Yield kg/ha & Saving (Rs)/month
3	Mustard	RH-749	IDM	Performance of biofungicide	<i>Trichoderma viride</i>	<i>Rabi</i> 2019-20	6	15	Average productivity/ha and disease incidence %
4	Green gram	MH-421	Varietal evaluation	Performance evaluation	Seed, fungicide & insecticide	Summer, 2019-20	30	75	Yield kg/ha. B:C ratio
5	Mustard	RH-749	Varietal evaluation	Performance evaluation	Seed, bio-fertilizer, fungicide & insecticide	<i>Rabi</i> -2019	30	75	Yield kg/ha. B:C ratio
6	Wheat	HD-3086	Varietal evaluation	Performance evaluation	Seed, bio-fertilizer & weedicide	<i>Rabi</i> -2019	7.2	18	Yield kg/ha. B:C ratio
7	Onion	NHRDF Red	Varietal evaluation	Performance evaluation	Seed, biofertilizer	<i>Rabi</i> -2019	10	25	Yield kg/ha B:C ratio
Total							85.4	223	

Sponsored Demonstration

Crop	Area (ha)	No. of farmers

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6	May- 2019, Feb.-2020 , March-2020,	240
2	Farmers training	4	April-2019, October-2019, November-2019 January-2020	120
3	Media coverage	6	April-2019, October-2019, November-2019 January-2020	-
4	Training for extension functionaries	01	July-2019	-

C. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / Indicators

(ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / Indicators
Dairy farming	Indigenous/Crossbreeds	5	10	Deworming and Minerals supplementation in diet.	Milk production and fertility improvement.

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	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	15	-	15	5	-	5	20
Resource Conservation Technologies	2	30	-	30	10	-	10	40
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management	1	15	-	15	5	-	5	20
Seed production								
Nursery management								
Integrated Crop Management								
Fodder production								
Production of organic inputs								
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables								
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)	1	15	-	15	5	-	5	20
b) Fruits								
Training and Pruning								
Layout and Management of Orchards	1	15	-	15	5	-	5	20
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
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								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs	1	15	-	15	5	-	5	20
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing	2	30	-	30	10	-	10	40
IV Livestock Production and Management								
Dairy Management	1	15	-	15	5	-	5	20
Poultry Management								
Piggery Management	1	15	-	15	5	-	5	20
Rabbit Management/goat								
Disease Management	1	20		20	-	-	-	20
Feed management								
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	1	-	18	18	-	2	2	20
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	1	-	18	18	-	2	2	20
Income generation activities for empowerment of rural Women	1	-	18	18	-	2	2	20
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
VI Agril. Engineering								
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								
VII Plant Protection								
Integrated Pest Management	1	15	-	15	5	-	5	20
Integrated Disease Management	1	15	-	15	5	-	5	20
Bio-control of pests and diseases	1	15	-	15	5	-	5	20
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming	1	15	-	15	-	-	-	15
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								
IX Production of Inputs at site								
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								
X Capacity Building and Group Dynamics								
Leadership development	1	15	-	15	5	-	5	20
Group dynamics	1	15	-	15	5	-	5	20
Formation and Management of SHGs								
Mobilization of social capital	1	15	-	15	5	-	5	20
Entrepreneurial development of farmers/youths	1	15	-	15	5	-	5	20
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII Others (Pl. Specify)								
TOTAL	23	305	54	359	90	6	96	455
(B) RURAL YOUTH								
Mushroom Production	1	15	-	15	5	-	5	20

Bee-keeping								
Integrated farming	1	15	-	15	5	-	5	20
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 machinery and implements								
Nursery Management of Horticulture crops	1	15	-	15	5	-	5	20
Training and pruning of orchards								
Value addition	1	-	18	18	-	2	2	20
Production of quality animal products								
Dairying	1	15	-	15	5	-	5	20
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets	1	10	-	10	-	-	-	10
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								
Other Organic Farming								
TOTAL	6	70	18	88	20	2	22	110
(C) Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management	1	15	-	15	5	-	5	20
Integrated Nutrient management	1	15	-	15	5	-	5	20
Rejuvenation of old orchards								
Protected cultivation technology	1	15	-	15	5	-	5	20
Formation and Management of SHGs								
Group Dynamics and farmers organization	1	15	-	15	5	-	5	20
Information networking among farmers								
Capacity building for ICT application	1	15	-	15	5	-	5	20
Care and maintenance of farm machinery and implements								

WTO and IPR issues								
Management in farm animals	1	15	-	15	5	-	5	20
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing	1	-	18	18	-	2	2	20
Production and use of organic inputs	1	15	-	15	5	-	5	20
Gender mainstreaming through SHGs								
Any other (Pl. Specify) Post harvest technology	1	-	18	18	-	2	2	20
TOTAL	9	105	36	141	35	4	39	180
G. Total	38	480	108	588	145	12	157	745

B) OFF Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	15	-	15	5	-	5	20
Resource Conservation Technologies	2	30	-	30	10	-	10	40
Cropping Systems								
Crop Diversification								
Integrated Farming	1	15	-	15	5	-	5	20
Water management	1	15	-	15	5	-	5	20
Seed production								
Nursery management								
Integrated Crop Management								
Fodder production								
Production of organic inputs								
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	2	30	-	30	10	-	10	40
Off-season vegetables								
Nursery raising	1	15	-	15	5	-	5	20
Exotic vegetables like Broccoli	1	15	-	15	5	-	5	20
Export potential vegetables								
Grading and standardization	1	15	-	15	5	-	5	20
Protective cultivation (Green Houses, Shade Net etc.)	1	15	-	15	5	-	5	20
b) Fruits								
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								
c) Ornamental Plants								
Nursery Management	1	15	-	15	5	-	5	20
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants	1	15	-	15	5	-	5	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								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology	1	15	-	15	5	-	5	20
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management	2	30	-	30	10	-	10	40
Soil and Water Conservation								
Integrated Nutrient Management	1	15	-	15	5	-	5	20
Production and use of organic inputs	1	15	-	15	5	-	5	20
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing	1	15	-	15	5	-	5	20
IV Livestock Production and Management								
Dairy Management	1	15	-	15	5	-	5	20
Poultry Management								
Piggery Management								
Rabbit Management /goat								
Disease Management	1	10	-	10	-	-	-	10
Feed management								
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening								
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing	1	-	18	18	-	2	2	20
Gender mainstreaming through SHGs								
Storage loss minimization techniques	1	-	18	18	-	2	2	20

Value addition								
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts	1	-	18	18	-	2	2	20
Women and child care								
VI Agril. Engineering								
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								
VII Plant Protection								
Integrated Pest Management	1	15	-	15	5	-	5	20
Integrated Disease Management	1	15	-	15	5	-	5	20
Bio-control of pests and diseases	1	15	-	15	5	-	5	20
Production of bio control agents and bio pesticides								
VIII Fisheries								
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								
IX Production of Inputs at site								
Seed Production								
Planting material production (Hort.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Hort.)								
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								

X Capacity Building and Group Dynamics								
Leadership development	1	15	-	15	5	-	5	20
Group dynamics	1	15	-	15	5	-	5	20
Formation and Management of SHGs(HS)								
Mobilization of social capital								
Entrepreneurial development of farmers/youths (Agro.)	1	15	-	15	5	-	5	20
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
XII Others (Pl. Specify)								
TOTAL	30	400	54	474	130	6	136	590

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	2	30	-	30	10	-	10	40
Resource Conservation Technologies	4	60	-	60	20	-	20	80
Cropping Systems								
Crop Diversification								
Integrated Farming	1	15	-	15	5	-	5	20
Water management	2	30	-	30	10	-	10	40
Seed production								
Nursery management								
Integrated Crop Management								
Fodder production								
Production of organic inputs								
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	2	30	-	30	10	-	10	40
Off-season vegetables								
Nursery raising	1	15	-	15	5	-	5	20
Exotic vegetables like Broccoli	1	15	-	15	5	-	5	20
Export potential vegetables								
Grading and standardization	1	15	-	15	5	-	5	20
Protective cultivation (Green Houses, Shade Net etc.)	2	30	-	30	10	-	10	40
b) Fruits								
Training and Pruning								
Layout and Management of Orchards	1	15	-	15	5	-	5	20
Cultivation of Fruit								

Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management	1	15	-	15	5	-	5	20
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants	1	15	-	15	5	-	5	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								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology	1	15	-	15	5	-	5	20
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management	2	30	-	30	10	-	10	40
Soil and Water Conservation								
Integrated Nutrient Management	1	15	-	15	5	-	5	20
Production and use of organic inputs	2	30	-	30	10	-	10	40
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing	3	45	-	45	15	-	15	60
IV Livestock Production and Management								
Dairy Management	2	30	-	30	10	-	10	40
Poultry Management								
Piggery Management	1	15	-	15	5	-	5	20
Rabbit Management/goat								
Disease Management	2	30	-	30	10	-	10	40
Feed management								
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	1	-	18	18	-	2	2	20
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing	1	-	18	18	-	2	2	20
Gender mainstreaming through SHGs								
Storage loss minimization techniques	1	-	18	18	-	2	2	20

Value addition	1	-	18	18	-	2	2	20
Income generation activities for empowerment of rural Women	1	-	18	18	-	2	2	20
Location specific drudgery reduction technologies								
Rural Crafts	1	-	18	18	-	2	2	20
Women and child care								
VI Agri. Engineering								
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								
VII Plant Protection								
Integrated Pest Management	2	30	-	30	10	-	10	40
Integrated Disease Management	2	30	-	30	10	-	10	40
Bio-control of pests and diseases	2	30	-	30	10	-	10	40
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming	1	15	-	15	-	-	-	15
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								
IX Production of Inputs at site								
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								
X Capacity Building and Group Dynamics								

Leadership development	2	30	-	30	10	-	10	40
Group dynamics	2	30	-	30	10	-	10	40
Formation and Management of SHGs								
Mobilization of social capital	1	15	-	15	5	-	5	20
Entrepreneurial development of farmers/youths	2	30	-	30	10	-	10	40
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
Sponsored training								
TOTAL	53	705	108	813	230	12	242	1055
(B) RURAL YOUTH								
Mushroom Production	1	15	-	15	5	-	5	20
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs								
Integrated Farming	1	15	-	15	5	-	5	20
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops	1	15	-	15	5	-	5	20
Training and pruning of orchards								
Value addition	1	-	18	18	-	2	2	20
Production of quality animal products								
Dairying	1	15	-	15	5	-	5	20
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets	1	10	-	10	-	-	-	10
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								
Other Organic farming								
TOTAL	6	70	18	88	20	2	22	110
(C) Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management	1	15	-	15	5	-	5	20
Integrated Nutrient management	1	15	-	15	5	-	5	20
Rejuvenation of old orchards								
Protected cultivation technology	1	15	-	15	5	-	5	20
Formation and Management of SHGs								
Group Dynamics and farmers organization	1	15	-	15	5	-	5	20
Information networking among farmers								
Capacity building for ICT application	1	15	-	15	5	-	5	20
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals	1	15	-	15	5	-	5	20
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing	1	-	18	18	-	2	2	20
Production and use of organic inputs	1	15	-	15	5	-	5	20
Gender mainstreaming through SHGs								
Any other (Pl. Specify) Post harvest technology	1	-	18	18	-	2	2	20
Total	9	105	36	141	35	4	39	180
G. TOTAL	68	880	162	1042	285	18	303	1345

Details of training programme attached in **Annexure -I**

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	6	160	60	220	15	5	20	175	65	240
KisanMela										
Kisan Ghosthi	4	170	30	200	-	-	-	170	30	200
Exhibition	4	200	150	350	50	-	50	250	150	400
Film Show	12	150	50	200	15	5	20	165	55	220
Farmers Seminar	1	200	50	250	5	-	5	205	50	255
Workshop										
Group meetings	24	-	100	100	-	-	-	-	100	100
Lectures delivered as resource persons	10	180	20	200	-	-	-	180	20	200
Newspaper coverage	12	-	-	-	-	-	-	-	-	-
Radio talks	5	-	-	-	-	-	-	-	-	-
TV talks	6	-	-	-	-	-	-	-	-	-
Popular articles	10	-	-	-	-	-	-	-	-	-
Extension Literature	3	-	-	-	-	-	-	-	-	-
Advisory Services	10	80	20	100	10	10	-	-	-	120
Scientific visit to farmers field	120	-	-	-	-	-	-	-	-	120
Farmers visit to KVK	240	-	-	-	-	-	-	-	-	240
Diagnostic visits	60	-	-	-	-	-	-	-	-	60
Exposure visits	3	40	20	60	-	-	-	-	-	60
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	2	30	10	40	10	0	10	40	10	50
Animal Health Camp	2	30	10	40	10	0	10	40	10	50
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	4	60	20	80	20	0	20	80	20	100
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify) Yoga day Mahila kisaan diwas	4	-	-	-	-	-	-	-	-	200

Kisaan diwas										
World honey day										
World soil day										
Pre Kharif workshop	1	-	-	-	-	-	-	-	-	100
Pre Rabi workshop	1	-	-	-	-	-	-	-	-	100
PPVFRA workshop	-	-	-	-	-	-	-	-	-	-
Any Other (Specify)										
Total	494	1240	550	1750	115	10	125	1265	500	2695

3.5 Target for Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	HD -2967	85
OILSEEDS	Mustard	RH-749	40
PULSES	-	-	-
VEGETABLES	Palak	Pusa All Green	16
Total			141

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES	Tomato	Arkarakshak	4000
	Onion	NHRDF Red	4Kg seed
	Brinjal	Pusa Uttam	2500
	Chilli	Pusa Sadabhar	1500
	Bottle Gourd	Pusa Samridhi	1000
FOREST SPECIES			
ORNAMENTAL CROPS			
		Total	

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIO PESTICIDES				
1				
2				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
Cattle				
Goat				
Sheep				
Poultry	Broiler	Chabro	100	
Pig farming				
Fisheries				

3.6 Literature to be Developed/Published

(A) KVK News Letter

Date of start : July – December 2019 & January – June 2020

Number of copies to be published : 1000

(B) Literature developed/published

S.No.	Topic	Number
1	Research paper each scientist	5
2	Technical reports	3
3	News letter	2
4	Training manual all discipline	6
5	Popular article	10
6	Extension Literature	3
	Total	29

(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	CRM	1
2	CD	25 year journey of KVK	1

3.7. i) Success stories/Case studies identified for development as a case.

- Vegetable production
- Mushroom production
- Vermi-compost
- Crop production

ii) Case study on Impact of Food processing trainings for entrepreneurship development or as a source of income generating activity

a. Brief introduction

b. Interventions

c. Output

d. Outcomes

e. Impact

i) Social economic

ii) Bio-Physical

f. Good Action Photographs

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

Need assessment was made based on concerned departments, PRA reports, observations, field visits, interactions with farmers/farm women in meeting, field days etc. and detailed discussion with VLW's of target villages

Rural Youth

Identification of training needs of rural youth is identified through PRA, SWOT and interaction with rural youth, village elders, professionals and courses are accordingly identified. The views of officials of line department are also taken in deciding the issues.

In-service personnel

Meeting with Joint Director (Ag.), Delhi Govt., Director Animal Husbandry, Delhi Govt. and the District Officer Social Welfare (South West), Dept. of Social Welfare, Govt. of Delhi, held every year and the training programmes are organized as per the requirements. Feedback is also collected from participants of in service training course for their future training requirements.

3.9 For OFT:

- i) PRA
- ii) Problem identified from Matrix ✓
- iii) Field level observations ✓
- iv) Farmer group discussions ✓
- v) Others if any

For FLD:

- i) New variety/technology ✓
- ii) Poor yield at farmers level
- iii) Existing cropping system ✓
- iv) Others if any

3.10 Field activities

i. Name of villages identified/adopted with block name (2019-20):

Block: Najafgarh/Kapashera

Villages: 1. Kanganheri, 2. Malikpur, 3. Jhatikra.

Block: Alipur

Villages: 1. Tigipur, 2. Palla, 3. Sungerpur, 4. Dariyapur (Bawana)

Block: Shahdara

Villages: 1. Shamaspur jagir, 2. Nanglirajpur, 3. Jhil Khurenja.

- ii. No. of farm families selected per village : 10
- iii. No. of survey/PRA conducted : 5
- iv. No. of technologies taken to the adopted villages : 5
- v. Name of the technologies will be found suitable by the farmers of the adopted villages: Crop residue management (CRM), OFT, FLD, Marketing and Enterprises.
- vi. Impact (production, income, employment, area/technological– horizontal/vertical): Will be assessed
- vii. Constraints if any, in the continue application of improve technologies: Will be assessed

3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab:

1. Year of establishment : 2015-16

2. List of equipments purchase with amount

Sl. No.	Name of the equipment	Quantity	Cost (Rs)
1	Mrida parikshak kit	2	168000

3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	500	450	12	-
Water	100	100	10	-
Total	600	550	22	-

4.0 LINKAGES

4.1 Functional linkage with different organizations

Sl.No	Name of organization	Nature of Linkage
1.	Indian Agricultural Research Institute	Seeking technical support, demonstrations/ field visits/resource persons, Seminars, Farmers' group visits through NHRDF
2.	CCS Haryana Agricultural University, Hisar	Technical support
3.	National Horticultural Research & Development Foundation (NHRDF)	Parent organization of KVK; a duly recognized 'Scientific & Industrial Research Organization' (SIRO by Dept. of Science & Industrial Research, GOI, and National Agency for implementation of National Horticulture Mission of GOI. To provide administrative, financial and technical support to KVK
4.	State Department of Agriculture & Horticulture	Training of extension functionaries
5.	Development Department, Govt. of NCT Delhi	For collaborative work on solar plant and livelihood programmes
6.	State Animal Husbandry Department	Collaborative animal camps, training of extension personnel's/ resource persons
7.	National Horticulture Board	For conducting sponsored programmes
8.	Khadi & Village Industries Commission, New Delhi	Field visits/Resource persons
9	KVK- Shikohpur, Mandkola	Field visits/Resource persons
10	Integrated Child Development Services	Training of AWW and Supervisors
11	NABARD	For providing support for establishment of FPO and farmers club
12	Directorate of Wheat Research	Conducting frontline demonstration
13	NCIPM	Joint implementation of projects
14	Department of Education, Govt. of NCT Delhi	Technical guidance on nutrition education, career orientation in agriculture and its allied fields.
15	Rural Health Training Centre, Min. of Health & Family Welfare, GOI	Orientation of nursing students on KVK activities
16	Gram Vikas evam Kalayan Association, Delhi	Resource Person & guidance on agri-agro enterprises
17	DIET, Ghumenheda, New Delhi	For conducting training

4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district No

S. No.	Programme	Nature of linkage
1		
2		

4.3 Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1		
2		

4.4 Nature of linkage with National Fisheries Development Board : NA

S. No.	Programme	Nature of linkage
1		
2		

5.0 Utilization of hostel facilities: NA

S. No.	Programme	No. of days
1		
2		
	Total	

6.0 Convergence with departments: Nil

7.0 Feedback of the farmers about the technologies demonstrated and assessed:

- Mustard Variety RH-749 was demonstrated under CFLD Mustard and the response from the farmers was found to be satisfactory.
- FLD in pearl millet under programme NARI brought a satisfactory amount of iron (Fe) and zinc in the crop for human health.
- IPM approaches demonstrated to farmers were started practicing in the area.
- Farmers accepted and applied the technology of micronutrients applications in tomato.
- Majority showed key interest in Bajra biscuits (Bajra + Basen) demonstrated to them.
- Vegetable nursery rising under the protected condition.
- Chick pea variety GNG 1958 was demonstrated by KVK and a higher yield was reported by the farmers.

8.0 Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:

- Research institutes may focus on the development of high yielding salt tolerant varieties of Rice, Wheat and Mustard crop.
- Development of Bio-Fortified varieties of Crops to sort out the problem of Malnutrition.
- Floriculture research to be focused on the development of Salt tolerant varieties of flowers to promote flower farming in land irrigated by salt water.
- Research on advanced agro-technique in saline condition for agronomic and horticulture crops.
- Research to be focused on Nano-Technology in Agriculture for demonstration and welfare of Farmers.
- Advance research in the field micro-nutrients availability for the vegetable crops.
- Low cost technologies development in food processing.
- Dissemination of technologies from veterinary universities/institutes to other states through KVKs in the field of veterinary sciences for demonstrations and trials.
- Herd health based approach for research and development of technologies in veterinary sciences.

Training Programmes

i) Farmers & Farm Women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production/Agronomy										
June	PF	Resource Conservation Techniques in Rice Crop	2	15	-	15	5	-	5	20
Oct	PF	Balance Use of Fertilizers in Rabi Crops	2	15	-	15	5	-	5	20
Nov	PF	Irrigation Scheduling in Rabi crops for higher Water Productivity	2	15	-	15	5	-	5	20
Dec	PF	Integrated Weed Management in Wheat Crops	2	15	-	15	5	-	5	20
Horticulture										
May	PF	Layout for new orchard establishment and after care	2	15	-	15	5	-	5	20
Dec	PF	Protected cultivation of vegetables for better market value	2	15	-	15	5	-	5	20
Livestock Production										
April	PF/FW	Management of infertility and other reproductive disorders of bovines	2	15	-	15	-	-	-	15
May	PF	Poultry feeding and quality control	2	15	-	15	5	-	-	20
Agriculture Extension										
Sept	PF	Formation of Farmer Club/ Farmers Producer Organization	2	15	-	15	5	-	5	20
Oct	PF	Capacity Development for ICTs Application	2	15	-	15	5	-	5	20
Nov	PF	Training on Digital / Online Marketing	2	15	-	15	5	-	5	20
Home Science										
Oct	PF	Household food security by kitchen gardening and nutrition gardening	2	-	18	18	-	2	2	20
July	PF	Value addition	3	-	18	18	-	2	2	20
Dec	PF	Income generation activities for empowerment of rural Women	3	-	18	18	-	2	2	20
Plan Protection										
July	PF	Management of Fruit fly in bottle guard using plastic bottle based methyl eugenol trap	2	15	-	15	5	-	5	20
Dec	PF	Home based production and use of botanical pesticides	2	15	-	15	5	-	5	20
Feb	PF	Cultivation methodology of oyster mushroom	2	15	-	15	5	-	5	20
Soil Health										

April	PF	Importance of soil & water testing	2	15	-	15	5	-	5	20
May	PF	Production and use of organic input	2	15	-	15	5	-	5	20
July	PF	Balance use of fertilizers in crops	2	15	-	15	5	-	5	20
November	PF	Importance of soil & water testing	2	15	-	15	5	-	5	20

i) Farmers & Farm Women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production/ Agronomy										
April	PF	Inclusion of Summer Green Gram in Rice Wheat cropping System for Increasing Sustainability	2	15	-	15	5	-	5	20
July	PF	Advanced Agro Technique in Rice Cultivation	2	15	-	15	5	-	5	20
July	PF	Weed Management Practices in Kharif Crop	2	15	-	15	5	-	5	20
October	PF	Integrated Nutrient Management in Oil Seed and Pulses Crops	2	15	-	15	5	-	5	20
November	PF	Weed Management Practices in Rabi Crop	2	15	-	15	5	-	5	20
Horticulture										
April	PF	Post harvest technology of Rabi season Onion	2	15	-	15	5	-	5	20
June	PF	Production technology of Kharif season vegetables	2	15	-	15	5	-	5	20
July	PF	Production technology of Round the year Marigold	2	15	-	15	5	-	5	20
Oct	PF	Production technology of Rabi season vegetables	2	15	-	15	5	-	5	20
Nov	PF	Production technology of exotic vegetables	2	15	-	15	5	-	5	20
Livestock Production										
Sept	PF	Vaccination schedule against contagious diseases in animals	2	15	-	15	5	-	5	20
Nov	PF	Control of ectoparasite and endoparasite infestation in cattle	2	15	-	15	-	-	-	15
Agriculture Extension										
April	PF	Training on Result Demonstration of Wheat sowing by Happy Seeder	2	15	-	15	5	-	5	20
August	PF	Training on leadership Development	2	15	-	15	5	-	5	20
October	PF	Capacity Building for ICTs Application	2	15	-	15	5	-	5	20
November	PF	Capacity Building and Group Dynamic (FPOs, Farmers Club and FIG)	2	15	-	15	5	-	5	20
Home Science										

April	PF	Safe grain storage	3	-	18	18	-	2	2	20
May/June	PF	Preparation of drinks and squashes	4	-	18	18	-	2	2	20
December	PF	Utilization of pearl millet flour by suitable processing techniques	3		18	18	-	2	2	20
Plant Protection										
May	PF	Safe use and application of agro chemicals	2	15	-	15	5	-	5	20
Sept.	PF	Cultivation of mustard and their pest, disease management	2	15	-	15	5	-	5	20
Oct.	PF	Neem based pesticide used for management of diamond black moth in cauliflower	2	15	-	15	5	-	5	20
Soil Health										
June	PF	Role of green manuring to improve soil health	2	15	-	15	5	-	5	20
July	PF	Management of problematic soil	2	15	-	15	5	-	5	20
Sept.	PF	Importance of soil and water testing	2	15	-	15	5	-	5	20
Nov.	PF	Use of bio fertilizer in Wheat & mustard crop	2	15	-	15	5	-	5	20

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title	Month	Duration (days)	No. of Participants			SC/ST participants			G. Total
					M	F	T	M	F	T	
Household Enterprises	Value addition of Fruit & Vegetables	Empowerment of farm women through skill up-gradation technique: Fruit & vegetable preservation	Nov.	21	-	18	18	-	2	2	20
Gardening	Employment generation	Nursery raising, gardening & landscaping	July	21	15	-	15	5	-	5	20
Mushroom	Mushroom Production	Cultivation of white button, oyster & milky mushroom	Oct.	21	12	3	15	3	2	5	20
Livestock Production	Animal Husbandry	Para Vets	Nov.	7	8	-	8	2	-	2	10
Livestock Production	Dairy Farming	Commercial dairy farming	Feb	21	15	-	15	5	-	5	20
Farming System	IFS	Integrated Farming System	Feb.	21	15	-	15	5	-	5	20

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
On Campus										
Sept	Department of agri, horticulture and anganwadi workers	Post harvest technology for vegetables & fruits	2	8	10	18	-	2	2	20
Oct	Aanganwadi workers & supervisors	Low cost and nutrient efficient diet designing	2	-	19	19	-	1	1	20

Oct	Development Department, Delhi	Integrated nutrient management in <i>rabi</i> crops	1	15	-	15	5	-	5	20
Dec	Development Department, Delhi	Advances in horticulture	1	15	-	15	5	-	5	20
Dec	Development Department, Delhi	Group Dynamics and farmers organization	1	15	-	15	5	-	5	20
Feb.	Development Department, Delhi	ICT Application in Agricultural Development	1	15	-	15	5	-	5	20
Feb.	Development Department, Delhi	Promotion of Organic Farming in NCT Delhi	1	15	-	15	5	-	5	20
Dec.	Development Department, Delhi	Integrated Pest Management in vegetable crops	1	15	-	15	5	-	5	20
Dec.	Development Department, Delhi	Management of reproductive disorders in bovines and vaccination schedule in cattle.	1	10	-	10	-	-	-	10

iv) Sponsored programme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training programme											
Agri. Extn	ICAR	Farmers	In-Situ Crop Residue Management by Farm Machineries	1	20	5	25	3	2	5	30
Agri. Extn.	ICAR	Farmers	Operational Guidelines of farm machineries for In-Situ Crop Residue Management	1	20	5	25	3	2	5	30
Total											
b) Sponsored research programme											
Total											
c) Any special programmes											
Agri. Extension	NABARD	KVK staff & FPO board of directors CEO of FPO	Orientation on formation and functioning of FPO, business operations and management.	2	-	-	-	-	-	-	-
Total				4	40	10	50	6	4	10	60

Frontline Demonstrations

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demon.	Parameters identified
1	Pearl millet	PC-443	Nutrition security	Promotion of nutrient rich variety	Seed	<i>Kharif</i> 2019	2	5	Presence of micronutrient
2	Nutritional kitchen garden	IARI	Household food security	Terrace/ Kitchen garden in peri-urban area	Seed, planting material	<i>Rabi</i> 2019-20	0.2	10	Yield kg/ha & Saving (Rs)/month
3	Mustard	RH-749	IDM	Performance of biofungicide	<i>Trichoderma viride</i>	<i>Rabi</i> 2019-20	6	15	Average productivity/ha and disease incidence %
4	Green gram	MH-421	Varietal evaluation	Performance evaluation	Seed, fungicide & insecticide	Summer, 2019-20	30	75	Yield kg/ha. B:C ratio
5	Mustard	RH-749	Varietal evaluation	Performance evaluation	Seed, bio-fertilizer, fungicide & insecticide	<i>Rabi</i> -2019	30	75	Yield kg/ha. B:C ratio
6	Wheat	HD-3086	Varietal evaluation	Performance evaluation	Seed, bio-fertilizer & weedicide	<i>Rabi</i> -2019	7.2	18	Yield kg/ha. B:C ratio
7	Onion	NHRDF Red	Varietal evaluation	Performance evaluation	Seed, biofertilizer	<i>Rabi</i> -2019	10	25	Yield kg/ha B:C ratio
Total							85.4	223	
Enterprise		Breed		No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / Indicators		
Dairy farming		Indigenous/Crossbreds		5	10	Deworming and Minerals supplementation in diet.	Milk production and fertility improvement.		