

# DETAILS OF ACTION PLAN OF KVK 2021

(1<sup>st</sup> January to 31<sup>st</sup> December, 2021)

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# DETAILS OF ACTION PLAN OF KVK 2021

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# (1<sup>st</sup> January to 31<sup>st</sup> December, 2021)

## 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, Nafed Complex, Village & Post -Ujwa, Nazafgarh, New Delhi - 110073	9667971155	011- 28525129	<a href="mailto:kvkujwa@yahoo.com">kvkujwa@yahoo.com</a>	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	<a href="mailto:delhi@nhrdf.com">delhi@nhrdf.com</a>	www.nhrdf.org

1.2.b. Status of KVK website : Yes

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) :429875

1.2.d Status of ICT lab at your KVK :Yes







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

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

### 1.4. Year of sanction: 1995

5. Staff Position (as on 1 January, 2020)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Basic Pay	Date of joining	Category	Religion	Mobile No.	Email id	Please attach recent
1	Sr Scientist & Head	Dr P.K. Gupta	Sr Scientist & Head	Horticulture	37400 - 67000	9000	41720 +9000	28.02.17	Per.	Gen	8888867619	kvkujwa@yahoo.com	
2	Subject Matter Specialist	Ritu Singh	SMS	Home Science	15600 - 39100	5400	27370 +5400	10.02.05	-do-	Gen	9818550652	-do-	
3	Subject Matter Specialist	Rakesh Kumar	SMS	Horticulture	15600 - 39100	5400	27370 +5400	22.09.05	-do-	Gen	9313047633	-do-	
4	Subject Matter Specialist	Dr. D. K. Rana	SMS	Plant Protection	15600 - 39100	5400	22850 +5400	5.05.10	-do-	Gen	9310904705	-do-	
5	Subject Matter Specialist	Dr Samar Pal Singh	SMS	Agronomy	15600 - 39100	5400	16230 +5400	25.05.18	-do-	Gen	8650399054	-do-	
6	Subject Matter Specialist	Sh Kailash	SMS	Agriculture Extension	15600 - 39100	5400	16230 +5400	27.06.18	-do-	Gen	9413060922	-do-	
7	Subject Matter Specialist	Vacant	SMS	Animal Husbandry									
8	Programme Assistant	Brijesh Yadav	PA	Soil Science	9300-34800	4200	11940 +4200	17.02.14	-do-	Gen	7065787046	-do-	
9	Computer Programmer	Manju	PA	Computer Science	9300-34800	4200	15100 +4200	2.05.08	-do-	Gen	9718666917	-do-	
10	Farm Manager	Ram Sagar	Farm Manager	Agriculture	9300-34800	4200	9300 +4200	1.03.19	-do-	Gen	8953751501	-do-	
11	Accountant / Superintendent	V. K. Dixit	Office Superintendent Cum Accountant	Administration	9300-34800	4200	21660 +4200	21.10.05	-do-	Gen	9911395569	-do-	

12	Agromet Observer	Vishal	Agromet Observer	Agromet Observer	5200-20200	2000	6460 + 2000	1.3.2019	-do-	Gen	9466803902	-do-	
13	Stenographer	Atma Ram	Store Keeper	Administration	5200-20200	1900	10300 + 1900	10.02.05	-do-	Gen	9013553955	-do-	
14	Driver	Rajesh Kumar	Driver	Jeep Driver	5200-20200	1900	10290 + 1900	02.02.05	-do-	Gen	9899426775	-do-	
15	Driver	Krishan	Driver	Tractor Driver	5200-20200	1900	9190 + 1900	02.05.08	-do-	Gen	8506920345	-do-	
16	Supporting staff	Ramesh Chander	Attendant	Administration	4440-7440	1800	8270 + 1800	10.02.05	-do-	Gen	9560290407	-do-	
17	Supporting staff	Sachin Kumar	Attendant	Administration	4440-7440	1800	5410 + 1800	18.05.18	-do-	Gen	9012564616	-do-	

**1.6. Total land with KVK (in ha) :16.9**

S. No.	Item	Area (ha)
1	Buildings	0.10
2.	<b>Demonstration Units</b> Mushroom unit -250 m <sup>2</sup> Vermicompost unit -500 m <sup>2</sup> Azolla unit-25 m <sup>2</sup> Insect proof net house-50 m <sup>2</sup> Apiculture-25 box Kinnow with Drip Irrigation & Aonla orchard-3.5 acre Water harvesting -200 m <sup>2</sup> Kitchen Garden – 0.1 ha Crop Cafeteria – 0.2 ha Drumstick Orchard – 0.2 ha Aonla & Bael Orchard- 1.0 ha Solar Unit- 0.40 ha	2.02
3.	Crops (Seed Production)	11.65
4.	Others if any	
	a. Forestry	1.78
	b. Onion Storage	1.35
	<b>Total</b>	<b>16.9</b>

**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/-	NA	-	
2.	Farmers Hostel	NIL						
3.	Staff Quarters	NIL						
4.	Demonstration Units:							
	Pasteurized compost	State Govt.	1998	250 m <sup>2</sup>	12,10,000/-			
	Mushroom unit	ICAR	2019		-			
	Vermicompost unit	ICAR	2018	500 m <sup>2</sup>	200000/-			
	Azolla unit	ICAR	2018	25 m <sup>2</sup>	25000/-			
	Insect proof net house	NHRDF	2018	50 m <sup>2</sup>	125000/-			
	Apiculture	NHRDF	2019	20 box	100000/-			
	Kinnow&Aonla orchard	NHRDF		3.5 acre	250000/-			
	Water harvesting	ICAR	2017	200 m <sup>2</sup>				
	Drip irrigation system	NHRDF	2019	2 acre	150000/-			
					360000/-			
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 km Run	Present status
Scooter	1995	21818	-----	Not working
Motorcycle	2000	47063	51784	Not working
Jeep	2017	800000	45149	Working
Tractor	2017	700000	870.7*	Working

\*In hours

**C) Equipment & AV aids**

Sr. No	Name of the equipment	Number of Equipment	Year of purchase	Cost (Rs.)	Present status
1.	Seed drill	1	1997	6150	Good
2.	Tractor trolley	1	1998	11000	
3.	Harrow	1	1999	8600	
4.	Mega phone	1	2002	2100	
5.	Cultivator	1	2002	10900	
6.	Video Camera	1	2002	59990	
7.	Tractor Trolley	1	2002	52970	
8.	Harrow	1	2002	19250	
9.	LCD Multimedia Projector	1	2007	97000	
10.	Juicer Mixer Grinder	1	2009	2050	
11.	Water cooler	1	2009	19700	
12.	Stabilizer	4	2009	26680	
13.	Printer	1	2009	1850	
14.	Scanner	1	2010	4148	
15.	Speaker	1	2010	1733	
16.	Camera	1	2010	1000	
17.	Computer	1	2010	25725	
18.	Printer	1	2010	7035	
19.	Computer	1	2011	24210	
20.	Refrigerator	1	2011	11200	
21.	Photocopier machine	2	2011	35000	
22.	Laptop	1	2011	36170	
23.	Generator	1	2011	59000	
24.	Room cooler	3	2012	20402	
25.	Post hole digger	1	2012	42748	
26.	Weed cutter	1	2012	24675	
27.	Zero till seed cum fertilizer	1	2012	47500	
28.	Straw reaper cum trolley	1	2012	342000	
29.	Lawn mover	1	2012	12915	
30.	Small autoclave	1	2012	67280	
31.	Hot air oven	1	2012	45016	
32.	Laminar flow	1	2012	78874	
33.	Colony counter	1	2012	6156	
34.	B.O.D. incubator	1	2012	107730	

35.	Microscope	1	2012	37822
36.	Refrigerator	1	2012	32600
37.	Electric balance	1	2012	42750
38.	Water distillation	1	2012	25650
39.	pH meter	1	2012	19687
40.	EC meter	1	2012	21038
41.	Spectrophotometer	1	2012	39150
42.	Flame photometer	1	2012	60750
43.	Computer	1	2012	34000
44.	Air conditioner	1	2012	33975
45.	Laptop	1	2012	37000
46.	Sprit lamp	2	2012	157
47.	Stabilizer	1	2012	2000
48.	Hygrometer	1	2012	473
49.	Printer	1	2012	5350
50.	UPS	1	2013	2100
51.	Reverse Osmosis (RO)	1	2014	15500
52.	Finger print attendance machine	1	2014	11250
53.	Heat convector	2	2014	1800
54.	Desert Cooler	5	2014	25594
55.	Mridaparikshak soil testing Mini Lab	1	2015	75000
56.	Trolley	1	2016	158832
57.	Plastic palates	8	2016	29560
58.	Water cooler	1	2016	20267
59.	Inverter set	1	2016	24700
60.	Planker (wood pata with chain)	1	2016	8947
61.	Reverse Osmosis (RO)	1	2016	16500
62.	Mridaparikshak soil testing Mini Lab	2	2017	90300
63.	Stabilizer	3	2017	9000
64.	Printer	1	2017	15044
65.	Harrow	1	2017	57000
66.	Leveler	1	2017	13000
67.	Lecture stand	1	2017	8000
68.	Cultivator	1	2017	23800
69.	Head phone	1	2017	400

70.	Gramin GPS 72 H	1	2017	9984
71.	Digital still camera	1	2017	28000
72.	LCD Multimedia projector	1	2017	52490
73.	LED TV	1	2017	72000
74.	Electronic balance	1	2017	4000
75.	Air Conditioner	1	2017	121600
76.	Computer	1	2017	80850
77.	UPS	2	2017	4106
78.	Computer printer	1	2018	10400
79.	Mulcher single speed	2	2018	336000
80.	Shrub master	2	2018	103040
81.	Hydraulic reversible 2MB plough	1	2018	135615
82.	Wireless walkie phone	1	2018	1750
83.	Happy seeder 10 row	2	2018	332640
84.	TATA sky DTH connection	1	2018	2530
85.	Airtel 4G home Wi-Fi router	1	2018	2500
86.	Fire extinguisher	3	2018	6372
87.	Projector screen	1	2018	16461
88.	PA Mixture amplifier	1	2018	8791
89.	PA Microphone	1	2018	3835
90.	PA Wireless Microphone	1	2018	5015
91.	Zero Till Seed cum Fertilizer Drill	3	2018	183849
92.	UPS	2	2018	4800
93.	Desert cooler	1	2019	10000
94.	Zero seed cum fertilizer drill	1	2019	57000
95.	Computer	1	2019	107100
96.	UPS	2	2019	4300
97.	Bag Closer Machine	1	2019	5040
98.	Rotavator	2	2019	220000
99.	GPS Device Tracker	1	2019	7000
100.	CC TV Unit	1	2020	244147
101.	Mobile Hand Set	1	2020	15000
102.	Stand Holder for Mobile phone & Camera	1	2020	699
103.	Directional leveler condenser microphone	1	2020	949
104.	Sanitizer stand	1	2020	2124



105.	Water Tanker	1	2020	38940
106.	Laptop	1	2020	88500

### 1.8. A). Details SAC meeting\* conducted in the year

S.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	26/12/20	<ol style="list-style-type: none"> <li>1. Dr. S. K. Singh, Director, ICAR-ATARI, Jodhpur</li> <li>2. Dr. R. P. Gupta, Ex Director, NHRDF</li> <li>3. Dr. J R Mishra, Pr. Scientist, ICAR-IARI, New Delhi</li> <li>4. Dr. Vijay Kr. Dagar, Vet. Officer, Govt. of NCT Delhi</li> <li>5. Dr. Vijay Singh Meena, ICAR-NBPGR</li> <li>6. Er. R K Yadav, Ex Prog. Coordinator, KVK Delhi</li> <li>7. Sh. Shrichand Sharma, Consultant, (Hort) Govt. of NCT Delhi</li> <li>8. Sh. Atonw Tikat, Doordarshan Kissan</li> <li>9. Sh. Ram Kumar, Progressive farmer</li> <li>10. Sh. Sant Kumar, Agriculture Asst. Govt. of NCT Delhi</li> <li>11. Smt. Geeta Devi, Farmer</li> <li>12. Dr. P.K Gupta, Head, KVK, Delhi</li> <li>13. Dr. Ritu Singh, SMS(HS)</li> <li>14. Sh. Rakesh Kumar , SMS (Hort.)</li> <li>15. Dr. D.K.Rana, SMS(PP)</li> <li>16. Dr. Samarpal Singh, SMS (Agro.)</li> <li>17. Sh. Kailash, SMS(Ext.)</li> <li>18. Sh. Brijesh Yadav, PA (soil)</li> <li>19. Smt. Manju, PA (comp.)</li> </ol>	<ol style="list-style-type: none"> <li>1. All SMS should focus on their respective work achievement considering COVID 19 pandemic.</li> <li>2. A virtual common hall should be develop for online webinar/trainings</li> <li>3. KVK should start seed production programme with farmers' participation mode of demanded vegetables &amp; Cereals.</li> <li>4. Focus on protected cultivation of vegetables and flowers in NCT Delhi</li> <li>5. Committee has strongly recommended to KVK should focus the source of revenue generation</li> <li>6. As rural youth are attracting towards the agriculture sector as they are unskilled. KVK should focus on rural youth of the area skill development and making them self reliant.</li> <li>7. KVK should conduct the in-service training need bases for extension personal</li> <li>8. KVK should link with Animal department of Delhi</li> </ol>	Noted for compliance and incorporated in Annual Action plan 2021.

			<p>for organization the programme like vaccination at Village level for implications of Govt scheme at ground level.</p> <p>9. KVK should develop the self mobile app for registration of farmer and feedback analysis.</p> <p>10. Before introduction of new technology KVK should assess the performance at KVK farm.</p> <p>11. Technologies of ICAR-CSSRI Karnal should be introduced at KVK farm because this Institute is working on biotic stresses.</p> <p>12. KVK should work on SRR (Seed Replacement Ratio) of vegetables and other crops by demonstrate of new varieties.</p> <p>13. Being horticulture based host organization more number of front line demonstration should be conducted on vegetable crops.</p> <p>14. SMS (Hort) contact to Kitchen Garden Association of Delhi, Flower Association to provide flower &amp; vegetable seedling, vermicompost etc as well as provide training time to time.</p> <p>15. Source of technology in Agronomy should be included in the OFT write-up.</p> <p>16. Success story of technology and variety should be propagated through mobile apps, radio as well as different extension mode like print &amp; electronic.</p> <p>17. General nutrition deficiency in soil and water shall be prepared on taluka/block wise to know the status of the area for</p>	
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		effective transfer of technology. 18. Focus on organic farming in NCT Delhi because population of Delhi demanding organic food. 19. Need based assessment should be done for training and analysis of feedback of last 5 years training should be done and present in the next SAC meeting.	
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**Note :** This yellow mark may be treated as an example

\* Attach a copy of SAC proceedings along with list of participants

## **2. DETAILS OF DISTRICT (2020)**

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

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

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

#### **a) Soil type**

<b>S.No.</b>	<b>Agro-Climatic Zone</b>	<b>Characteristics</b>
1	Trans- Gangatic Plains region (Zone VI)	Semi-Arid, low rainfall, variation in temperature (2 - 47°C), frost occur once or twice in the year.

#### **b) Topography**

<b>S. No.</b>	<b>Agro ecological situation</b>	<b>Characteristics</b>
1	Climate	The state has three season's viz., winter (Nov-Jan), summer (Apr-June) & Rainy season (June - Sept). The rainfall occurs during the month of July-Sept with occasional showers during Dec- Jan. The range of rainfall between 420-780 mm.

### 2.3 Soil Types

S. No	Soil type	Characteristics	Net cultivated area (in ha)
1	Sandy 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.	33455

### 2.4. Area, Production and Productivity of major crops cultivated in NCT, Delhi (2019)

S. No	Crop	Area (ha)	Production (MT)	Productivity (Q/ha)
1	Paddy	5854	25256	43.14
2	Wheat	19350	83419	43.11
3	Barley	62	181	29.19
4	Bajra	1482	3256	21.97
5	Maize	34	174	51.18
6	Jowar	3161	3035	9.60
7	Gram	60	120	20.00
9	Mustard	3593	4527	12.60
10	Vegetable	23043	-	-
12	Flowers	5995	-	-

Source: State Agriculture Department, NCT Delhi.

### 2.5. Weather data (2020)

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)	
		Maximum	Minimum	Max RH	Mini RH
January	47.7	22	2.0	98	34
February	2	26.8	3.2	98	37
March	174.6	32	9.5	98	28
April	8.8	40	12.2	83	21
May	37.4	46.5	18.4	84	19
June	59.9	43.3	20.2	92	25
July	270.9	41	21.1	96	42
August	342.1	37	24	97	58
September	9.8	38	22	94	42
October	00	36	10.8	95	23
November	3.2	31	5.5	95	25
December	0.6	28	2.4	97	27

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

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 (2020)

Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
01.	Alipur	Alipur	Tigipur,Palla, Jangola,Sungerpur & Dariyapur	<p><b>Rabi -</b> Cauliflower, Spinach, Radish, Onion, Pea, Marigold, Wheat, Mustard</p> <p><b>Kharif -</b> Tomato, Cucurbits, Okra &amp;, Brinjal, Marigold, Radish &amp; Spinach, Paddy</p> <p><b>Summer-</b> Okra, Tomato, Brinjal, Cucurbits, Radish</p> <p><b>Enterprises:</b> Mushroom, Vegetables Floriculture and Nursery Production.</p>	<ul style="list-style-type: none"> <li>• Nutritional deficiency &amp; disorders in cauliflower &amp; cucurbits</li> <li>• Problem disease &amp; insect in vegetables</li> <li>• Practices of inferior variety of crops/vegetables/ flowers</li> <li>• Intensive tillage practices in rice -wheat system &amp; lower cropping intensity</li> <li>• Improper management of off-season vegetable cultivation &amp; nursery raising</li> <li>• Imbalance use of fertilizers &amp; pesticides</li> <li>• Post-harvest losses in cucurbits, tomato, okra&amp; leafy vegetables</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated weed &amp; nutrient management.</li> <li>• Resource conservation practices</li> <li>• Integrated pest management</li> <li>• Off season vegetable cultivation &amp; nursery raising under protected cultivation</li> <li>• Integrated crop management</li> <li>• Post-harvest management of vegetable crops</li> <li>• Soil test-based fertilizer recommendation (STFR).</li> <li>• Organic farming</li> </ul>

02.	Nazafgarh/ Kapashera	Nazafgarh	Kanganheri, Shikarpur, Jhatikara & Daulat Pur	<p><b>Rabi</b> – Onion, Cauliflower, Spinach, Wheat, Mustard</p> <p><b>Kharif</b> - Tomato, Cucurbits, Okra &amp;, Brinjal, Paddy</p> <p><b>Summer-</b> Okra, Tomato, Brinjal, Cucurbits,</p> <p><b>Enterprises:</b> Dairy, Mushroom, Apiculture, Value addition to fruit &amp; vegetable produce</p>	<ul style="list-style-type: none"> <li>• Saline water and Imbalance use of fertilizer.</li> <li>• Problem of diseases and pest in onion, okra, oil seed &amp; cereals.</li> <li>• Problem of endo-parasite and ecto-parasite in animals.</li> <li>• Disorders (Browning &amp; Whiptail) in cauliflower crops.</li> <li>• Vegetable nursery raising in open condition.</li> <li>• Intensive tillage practices in rice -wheat system &amp; lower cropping intensity</li> <li>• Improper nutrient management in rice &amp; wheat</li> <li>• Post-harvest losses in fruit &amp; vegetables</li> </ul>	<ul style="list-style-type: none"> <li>• Promotion of salt tolerant HYV</li> <li>• Integrated Nutrient Management in crops.</li> <li>• Resource conservation practices</li> <li>• IDM &amp; IPM approaches.</li> <li>• Value addition of locally grown crops.</li> <li>• Nutritional awareness among masses.</li> <li>• Promotion of organic farming</li> <li>• Soil test based fertilizers recommendation (STRF)</li> </ul>
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## 2.8 Priority/thrust areas

<b>Crop/Enterprise</b>	<b>Thrust area</b>
Cucurbits, Okra, cauliflower, onion, leafy vegetables tomato, & Brinjal	Integrated pest management, post-harvest management, weed and nutrient management, seed treatment, nursery raising, promotion of organic farming.
Flowering	Landscaping, Nursery rising of ornamental plants, production of loose flowers.
Paddy	Resources conservation techniques, Nutrient management, direct seeded rice, weed management / pest management and soil fertility management,
Wheat	Resources conservation techniques-zero tillage, weed management / pest management and soil fertility management,
Mustard	Screening of high yielding varieties of Rapeseed-mustard in NCT Delhi, Nutrient management.
Fruits (Aonla, Karonda, Guava, Strawberry & Papaya)	Promotion of HYV of fruits plants, IPM, INM.
Women in Agriculture	Women empowerment through strengthen of SHG's, preservation of fruits & vegetables, Health and nutrition awareness and promotion of nutritional garden in rural areas and post-harvest management.
Agri-based enterprise	Entrepreneurship development in agriculture (value addition, dairy, gardening & nursery raising of horticultural crops, Mushroom Cultivation, Vermi -Compost & Bee keeping)



### 3. TECHNICAL PROGRAMME

#### 2. A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
5	25	100	250

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
48	945	389	4190

Seed Production (q)	Planting material (Nos.)	Fish seed prod. (No.)	Soil Samples
(5)	(6)	(7)	(8)
230	30000	Nil	250

#### 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.	IPM	Okra, Onion, Cauliflower, Paddy	Shoot & fruit borer in Okra and Thrips, purple blotch in onion	Assessment of Management of Shoot & Fruit Borer in Okra	IPM in onion	IPM in Cauliflower, Onion and Paddy	IPM in vegetables	Extension literature, TV talk, news coverage etc.	<i>Trichoderma</i> , Neem pesticide, <i>Pseudomonas</i> 'Yellow sticky and Spinosad

2.	INM	Cauliflower, Bottle guard, Mustard, Wheat crop	Nutritional disorders and deficiency	Assessment of micro nutrients in cauliflower. Assessment of Foliar application of Boron on yield and yield attributes of Mustard crops. Assessment on the effect of potash & boron on Bottle guard. Assessment of integrated nutrients management practices in wheat crop.	-	INM in cereals crops, Vermicompost production	INM in Cereals and vegetables	Extension literature, demonstrations, Field visits	Potash, Molybdenum, Boron
3.	ICM	Mustard, Chickpea, summer moong, Wheat, onion, marigold	Cultivation of inferior varieties of crops. Continue rice-wheat cropping system with intensive tillage,	-	To establish the potential of improved technologies of crops at farmers fields.	Improve cultivation practices of cereals and vegetables	-	PRA Survey, Cluster and farmers selection, Kisan ghosthi, Field visits, Field day and Extension literature	Seed, biofertilizers, herbicides, insecticides

4.	ICT	Mobilization of farmers	Delay and lack of interactive audio-visual based agriculture information dissemination, Unawareness among farmers on new and innovative technologies, Farmers are not united for their common interest, Non awareness of digitalization of marketing among farmers and rural youth.	-	Demonstration using print media in popularization of new technologies, Demonstration of work efficiency among farmers through Farmers Interest Group (FIGs)	To develop the skills among farmers and rural youth by providing modern technologies training to generate income.	ICT application for welfare of farmers community	Distribution of extension literatures and printing material (Folder, Pamphlets, leaflet etc.), 1 Group (10-15 Farmers), Training, success story of successful entrepreneur, extension literature.	-
5.	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.	-	Vocational training, Awareness programme	-

6.	Skill development	Beekeeping, Mushroom production, Vermicompost, Model nursery, Gardeners, Food Processing	Unskilled rural youths and Farmers		-	VT on Gardner, Nursery Worker, Mushroom cultivation, Beekeeping, IFS, Value addition in fruits & vegetables. To develop the skills among farmers and rural youth by providing modern technologies training to generate income.	-	Extension literature, PPT., Demonstration, Exposure visit, TV talk, news coverage etc.	-
7.	Household food security by Kitchen gardening and promotion of biofortified varieties	All seasonal vegetables	Poor health, nutritional status of farm women & children.	Assessment of Performance of Terrace garden in urban area of South West District of Delhi	FLD on nutritional kitchen gardening, biofortified crops like pearl millet, wheat/mustard under NARI programme	Household food and nutritional security, Low cost nutritious, immunity booster recipes	Women and child care	Extension literature, TV talks, news coverage, Demonstration.	Seeds & seedlings

### 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								1
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management					1					1
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
Other Terrace Gardening					1					1
<b>Total</b>		<b>1</b>			<b>2</b>					<b>3</b>

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

<b>Thematic areas</b>	<b>Cereals</b>	<b>Oilseeds</b>	<b>Pulses</b>	<b>Commer cial Crops</b>	<b>Vegetables</b>	<b>Fruits</b>	<b>Flower</b>	<b>Kitchen garden</b>	<b>Tuber Crops</b>	<b>TOTAL</b>
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										
<b>TOTAL</b>										

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Wormi 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								
<b>TOTAL</b>	<b>1</b>							<b>1</b>

**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								
<b>TOTAL</b>								

## B. Details of On Farm Trial

### OFT- 1 (III<sup>rd</sup> Year)

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 crop	Poor seed setting and pods development.	Deficiency of boron in soil (on soil test basis).	<ul style="list-style-type: none"> <li>• T1- Farmers Practice (no use of boron)</li> <li>• T2- Foliar Spray of 0.25 % Boric Acid at 40 and 60 Days After Sowing.</li> </ul>	ICAR-DRMR, Bharatpur	Boron	280/- per demo	0.4	10	<p><b>Technological Indicator:</b></p> <ul style="list-style-type: none"> <li>• Plant growth parameter</li> <li>• Yield &amp; Yield Attributes</li> </ul> <p><b>Economic indicators:</b></p> <ul style="list-style-type: none"> <li>· Cost of cultivation (Rs/ha)</li> <li>· Net return (Rs/ha)</li> <li>· B:C Ratio</li> </ul> <p><b>Farmers perception:</b></p> <p>Adoptability/ Accessibility</p>

### OFT-2 (I<sup>st</sup> Year)

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	<p>T1-Farmers practice.</p> <p>T2-Parental route: Ivermectin</p> <p>T3- Oral route:</p>	GADVASU -Ludhiana				7	<p><b>Technological Indicator:</b></p> <p>No. of tick per sq. feet of body area at</p>



ectoparasite in cattle.			Ivermectin T4- Spray: Deltamethrin T5: Body line marking: Cypermethrin							3 <sup>rd</sup> , 5 <sup>th</sup> , 7 <sup>th</sup> days after treatment
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### OFT-3 (II<sup>nd</sup> Year)

Assessment of management of Shoot & Fruit Borer in Okra.

Title of OFT	Problem Identified	Major cause of problem	Technologica l Intervention	Source of technology	Critical Inputs	Cost (Rs) of critical input	Area (ha) of OFT	No. of replication	Performance Indicators
Assessment of management of Shoot & Fruit Borer in Okra	Sever infestation of shoot & fruit borer in Okra as vegetative and fruiting stage	Favorable weather conditions	T1 : Farmers Practice (Cartap Hydrochlorid e) 50 SP @ 250gm/Ha T2: Spinosad (45 SL) @ 0.5ml/L water at 15 days interval	IARI, New Delhi	Spinosad -100ml	850	0.4	5	Shoot infestation (%) Fruit infestation (%) Yield –Q Increase yield (%) <b>Economic indicators:</b> · Cost of cultivation (Rs/ha) · Gross return (Rs/ha) · Net return (Rs/ha) · B:C Ratio

## OFT-4 (1<sup>st</sup> Year)

Assessment of Performance of Terrace garden in urban area of South West District of Delhi

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 Performance of Terrace garden in urban area of South West District of Delhi	Lack of space, inferior varieties of seed & seedlings. Unavailability of organic /pesticide free Vegetables at household level.	Fast/rapid urbanization, growing population and heavy use of pesticides in vegetables are becoming threat to food and nutrition security.	T <sub>1</sub> – Unorganized Terrace Gardening T <sub>2</sub> – Scientific Terrace gardening	ICAR-IIHR, Bangalore	Seed, seedlings, grow bags, grow bag mixture, organic manure	750/- per trial	5 household	5	<p><b>Technological Indicator:</b></p> <ul style="list-style-type: none"> <li>Yield /kg/month</li> </ul> <p><b>Economic indicators:</b></p> <ul style="list-style-type: none"> <li>Cost of cultivation (Rs/demo)</li> <li>Availability of vegetable per person per day</li> <li>-B:C Ratio</li> </ul> <p><b>Farmers perception:</b></p> <ul style="list-style-type: none"> <li>Adoptability/ Accessibility</li> </ul>

### 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	Onion	NHRDF Furgungi	IPM	Soil & Seed treatment Yellow sticky Foliar application neem pesticide	<i>Trichoderma viride</i> <i>Pseudomonas</i> , Yellow sticky & neem pesticide	Rabi 2020-21	4	10	Thrips / plant Purple blotch incidence (%) Yield kg/ha Economics- Rs
2	Mustard	Giriraj	ICM	Newly released variety, Seed treatment & Weed management	Seed, bio-fertilizer, fungicide, insecticide & <i>Trichoderma</i>	Rabi- 2020-21	30	75	Yield kg/ha. Economics- Rs
3	Summer mung	MH421	ICM	Improved variety	Seed, biofertilizer, herbicide	Zaid- 2021	20	50	Yield kg/ha Economics- Rs
4.	Carrot	Pusa Rudhira	ICM	Improved variety	Seed	Rabi- 2020-21	4	10	Yield kg/ha Economics- Rs
5.	Onion	NHRDF 883	ICM	Newly released variety	Bulb lets	Kharif 21	2	5	Yield kg/ha. Economics- Rs
6.	Chickpea	GNG-1958	ICM	Improved variety	Seed, biofertilizer, herbicide	Rabi- 2021	20	50	Yield kg/ha Economics- Rs
7.	Marigold	PusaNarangi	Natural Resource Management	Performance evaluation	Seed	Kharif- 2020-21	2	5	Yield kg/ha Economics- Rs
					<b>Total</b>		<b>82.0</b>	<b>205</b>	

## Sponsored Demonstration

Crop	Area (ha)	No. of farmers

### Others Details of FLDs under NARI programme -

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demon	Parameters identified
1	Wheat	DBW-187	Nutrition security	Promotion of nutrient rich variety	Seed	Rabi 2021-22	4	10	Presence of macro nutrients
2	Nutri-Garden	IIHR/ IARI	Validation of Nutri-Garden modal area	Vegetables & fruits	Seed & Seedlings	Kharif & Rabi 2021-22	0.2	20	Yield Kg/ha Saving (Rs.)/Month
3	Pearl Millet	AHB-1200	Nutrition security	Promotion of nutrient rich variety	Seed	Kharif 2021-22	2	5	Presence of micro nutrients

### B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6	Feb.-2021, March-2021, May- 2021,	240
2	Farmers trainings	4	April-2021, June 2021, October-2021, November-2021 January-2021	120
3	Media coverage	15	April-2021, October-2021, November-2021, January-2021	-
4	Training for extension functionaries	01	July-2021	-

### 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

### 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	1	15	0	15	5	0	5	20
Resource Conservation Technologies								
Cropping Systems	1	15	0	15	5	0	5	20
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	1	15	0	15	5	0	5	20
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	1	15	0	15	5	0	5	20
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
<b>b) Fruits</b>								
Training and Pruning								
Layout and Management of Orchards	1	15	0	15	5	0	5	20
Cultivation of Fruits								
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	1	15	0	15	5	0	5	20
Management of potted plants								

Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
<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	1	15	0	15	5	0	5	20	
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									
Poultry Management									
Piggery Management									
Rabbit Management/goat									
Disease Management									
Feed management	1	15	0	15	5	0	5	20	
Production of quality animal products									
<b>V Home Science/Women empowerment</b>									
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	1	-	10	10	-	5	5	15	
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Storage loss minimization techniques									

Value addition								
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
<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	1	15	0	15	5	0	5	20
Integrated Disease Management								
Bio-control of pests and diseases	1	15	0	15	5	0	5	20
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	1	15	0	15	5	0	5	20
Formation and Management of SHGs	1	15	0	15	5	0	5	20
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
<b>XI Agro-forestry</b>								
Production technologies								
Nursery management								
Integrated Farming Systems								
<b>XII Others (Pl. Specify) ICT Platform</b>	1	15	0	15	5	0	5	20
<b>TOTAL</b>	<b>14</b>	<b>195</b>	<b>10</b>	<b>205</b>	<b>65</b>	<b>5</b>	<b>70</b>	<b>275</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	1	15	0	15	5	0	5	20
Bee-keeping	1	15	0	15	5	0	5	20
Integrated farming								
Seed production								
Production of organic inputs	1	15	0	15	5	0	5	20
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	2	30	0	30	10	0	10	40
Training and pruning of orchards								
Value addition	1	3	10	13	-	2	2	15
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								
Other Organic Farming								
<b>TOTAL</b>	<b>6</b>	<b>78</b>	<b>10</b>	<b>88</b>	<b>25</b>	<b>2</b>	<b>27</b>	<b>115</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops								
Integrated Pest Management	1	15	0	15	5	0	5	20
Integrated Nutrient management	1	15	0	15	5	0	5	20
Rejuvenation of old orchards								
Protected cultivation technology	1	15	0	15	5	0	5	20
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application	1	15	0	15	5	0	5	20
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals	1	15	0	15	5	0	5	20
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing	1	-	15	15	-	5	5	20
Production and use of organic inputs	1	15	0	15	5	0	5	20
Gender mainstreaming through SHGs								
Any other (Pl. Specify) Post harvest technology	1	-	15	15	-	5	5	20
<b>Total</b>	<b>8</b>	<b>90</b>	<b>30</b>	<b>120</b>	<b>30</b>	<b>10</b>	<b>40</b>	<b>160</b>

<b>G. Total</b>	<b>28</b>	<b>273</b>	<b>50</b>	<b>403</b>	<b>120</b>	<b>17</b>	<b>137</b>	<b>550</b>
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<b>B) OFF Campus</b>								
<b>Thematic Area</b>	<b>No. of Courses</b>	<b>No. of Participants</b>						<b>Grand Total</b>
		<b>Others</b>			<b>SC/ST</b>			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	2	30	0	30	10	0	10	40
Resource Conservation Technologies								
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	2	30	0	30	10	0	10	40
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	1	15	0	15	5	0	5	20
Exotic vegetables like Broccoli	1	15	0	15	5	0	5	20
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
<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								
<b>c) Ornamental Plants</b>								
Nursery Management								

Management of potted plants	1	15	0	15	5	0	5	20
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
<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	1	15	0	15	5	0	5	20
Soil and Water Conservation	1	15	0	15	5	0	5	20
Integrated Nutrient Management	1	15	0	15	5	0	5	20
Production and use of organic inputs								
Management of Problematic soils	1	15	0	15	5	0	5	20
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
<b>IV Livestock Production and Management</b>								
Dairy Management								
Poultry Management								
Piggery Management								
Rabbit Management /goat								
Disease Management	1	15	0	15	5	0	5	20
Feed management	1	15	0	15	5	0	5	20
Production of quality animal products								
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	1	-	10	10	-	5	5	15
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet	1	-	20	-	-	-	-	20
Minimization of nutrient loss in processing	1	-	15	15	-	5	5	20
Gender mainstreaming through SHGs								

Storage loss minimization techniques								
Value addition								
Income generation activities for empowerment of rural Women	1	15	0	15	5	0	5	20
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
<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	1	15	0	15	5	0	5	20
Integrated Disease Management								
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 (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								
<b>X Capacity Building and Group Dynamics</b>								
Leadership development	1	15	0	15	5	0	5	20
Group dynamics								
Formation and Management of SHGs (HS)								
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
<b>XI Agro-forestry</b>								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
<b>XII Others (Pl. Specify) ICT Platform</b>	1	15	0	15	5	0	5	20
<b>TOTAL</b>	<b>20</b>	<b>240</b>	<b>50</b>	<b>290</b>	<b>80</b>	<b>20</b>	<b>100</b>	<b>390</b>

A) 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	3	45	0	45	15	0	15	60
Resource Conservation Technologies								
Cropping Systems	1	15	0	15	5	0	5	20
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	3	45	0	45	15	0	15	60
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	1	15	0	15	5	0	5	20
Nursery raising	1	15	0	15	5	0	5	20
Exotic vegetables like Broccoli	1	15	0	15	5	0	5	20
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
<b>b) Fruits</b>								
Training and Pruning								
Layout and Management of Orchards	1	15	0	15	5	0	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								
<b>c) Ornamental Plants</b>								
Nursery Management	1	15	0	15	5	0	5	20
Management of potted plants	1	15	0	15	5	0	5	20
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
<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	2	30	0	30	10	0	10	40
Soil and Water Conservation	1	15	0	15	5	0	5	20
Integrated Nutrient Management	1	15	0	15	5	0	5	20
Production and use of organic inputs								
Management of Problematic soils	1	15	0	15	5	0	5	20

Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
<b>IV Livestock Production and Management</b>								
Dairy Management								
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management	1	15	0	15	5	0	5	20
Feed management	2	30	0	30	10	0	10	40
Production of quality animal products								
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	1	0	10	10	0	5	5	15
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet	2	0	20	20	0	10	10	30
Minimization of nutrient loss in processing	1	0	10	10	0	5	5	15
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition								
Income generation activities for empowerment of rural Women	1	0	15	15	0	5	5	20
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
<b>VI Agri. 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	2	30	0	30	10	0	10	40
Integrated Disease Management								
Bio-control of pests and diseases	1	15	0	15	5	0	5	20

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	1	15	0	15	5	0	5	20
Group dynamics	1	15	0	15	5	0	5	20
Formation and Management of SHGs	1	15	0	15	5	0	5	20
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues ICT	2	30	0	30	10	0	10	40
<b>XI Agro-forestry</b>								
Production technologies								
Nursery management								
Integrated Farming Systems								
Sponsored training								



<b>TOTAL</b>	<b>34</b>	<b>435</b>	<b>60</b>	<b>495</b>	<b>145</b>	<b>25</b>	<b>170</b>	<b>665</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	1	15	0	15	5	0	5	20
Bee-keeping	1	15	0	15	5	0	5	20
Integrated farming								
Seed production								
Production of organic farming	1	15	0	15	5	0	5	20
Integrated Farming								
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	2	30	0	30	10	0	10	40
Training and pruning of orchards								
Value addition	1	-	15	15	-	5	5	20
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								
Other Organic farming								
<b>TOTAL</b>	<b>6</b>	<b>78</b>	<b>10</b>	<b>88</b>	<b>25</b>	<b>2</b>	<b>27</b>	<b>115</b>
<b>(C) Extension Personnel</b>								

Productivity enhancement in field crops								
Integrated Pest Management	1	15	0	15	5	0	5	20
Integrated Nutrient management	1	15	0	15	5	0	5	20
Rejuvenation of old orchards								
Protected cultivation technology	1	15	0	15	5	0	5	20
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application	1	15	0	15	5	0	5	20
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals	1	15	0	15	5	0	5	20
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing	1	-	15	15	-	5	5	20
Production and use of organic inputs	1	15	0	15	5	0	5	20
Gender mainstreaming through SHGs								
Any other (Pl. Specify) Post harvest technology	1	-	15	15	-	5	5	20
<b>Total</b>	<b>8</b>	<b>90</b>	<b>30</b>	<b>120</b>	<b>30</b>	<b>10</b>	<b>40</b>	<b>160</b>
<b>G. TOTAL</b>	<b>48</b>	<b>603</b>	<b>100</b>	<b>703</b>	<b>200</b>	<b>37</b>	<b>237</b>	<b>940</b>

*Details of training programmes 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	180	60	240	20	5	25	200	65	265
Kisan Mela	1	250	50	300	15	5	20	265	55	320
Kisan Ghosthi	4	150	20	170	-	-	-	150	20	170
Exhibition	2	200	150	350	50	-	50	250	150	400
Film Show	15	150	50	200	15	5	20	165	55	220
Farmers Seminar	1	200	50	250	10	-	10	210	50	260
Workshop										
Group meetings	10	-	100	100	-	-	-	-	100	100
Lectures delivered as resource persons	10	180	20	200	-	-	-	180	20	200
Newspaper coverage	12	-	-	-	-	-	-	-	-	-
Radio talks	5	-	-	-	-	-	-	-	-	-
TV talks	10	-	-	-	-	-	-	-	-	-
Popular articles	10	-	-	-	-	-	-	-	-	-
Extension Literature	5	-	-	-	-	-	-	-	-	-
<b>Advisory Services</b>	60	80	20	100	10	10	-	-	-	120
Scientific visit to farmers field	120	240	60	300	20	05	25	260	65	325
Farmers visit to KVK	-	-	-	-	-	-	-	-	-	750
Diagnostic visits	60	-	-	-	-	-	-	-	-	60
Exposure visits	3	40	20	60	-	-	-	-	-	60
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	-	-	-	-	-	-	-	-	-	-
MahilaMandals	-	-	-	-	-	-	-	-	-	-

Conveners meetings										
SHG Meeting	30	-	120	-	-	-	10	-	120	130
FPO Meetings	8	100	5	105	-	-	-	100	5	105
FPO AGM Meeting	1	100	5	105	-	-	-	100	5	105
Celebration of important days (specify) Yoga day Mahilakisaandiwas Kisaandiwas World honey day World soil day	6	-	-	-	-	-	-	-	-	200
Pre Kharif workshop	1	-	-	-	-	-	-	-	-	100
Pre Rabi workshop	1	-	-	-	-	-	-	-	-	100
PPVFRA workshop	-	-	-	-	-	-	-	-	-	-
Any Other (Specify)										
<b>Total</b>	<b>389</b>	<b>1990</b>	<b>770</b>	<b>2640</b>	<b>180</b>	<b>30</b>	<b>200</b>	<b>2040</b>	<b>750</b>	<b>4190</b>

### 3.5 Target for Production and supply of Technological products

#### SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (q)
Cereals	Wheat	HD -3226	150
Oilseeds	Mustard	Pusa Vijay& Giriraj	50
Vegetables	Palak	Pusa All Green	30
<b>Total</b>			<b>230.00</b>

#### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
<b>FRUITS</b>	Kinnow	Kinnow	250 Seedling
<b>VEGETABLES</b>	Tomato	Arka Rakshak	5000
	Onion	NHRDF Red	5 qtl. seedling
	Brinjal	PusaUttam	5000
	Chilli	Pusa Sadabhar	5000
	Bottle Gourd	Pusa Naveen	5000
	Cauliflower	Pusa kartiksanker	2500
	Cabbage	Golden acre	2500
	Broccoli	-	500
<b>ORNAMENTAL CROPS</b>	Marigold Flower	Pusa Narangi	5000
<b>Total</b>			

#### Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
1	Vermicompost			200000

#### LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			(No.)	Unit
Cattle				
Goat				

Sheep				
Poultry				
Pig farming				
Fisheries				

### 3.6 Literature to be Developed/Published

(A) **KVK News Letter** : January – June 2021 & July – December 2021

Number of copies to be published: 200 copy half year

### (B) Literature developed/Published during the year

S.No.	Topic	Number
1	Research paper each scientist	5
2	Technical reports	3
3	News letters	2
4	Training manuals of all disciplines	6
5	Popular articles by each scientist	6
6	Extension Literature	8
<b>Total</b>		<b>30</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	CRM	1
2	CD	25-year journey of KVK	1
3	CD	Success Story of Entrepreneur	5

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

- Mushroom production
- Beekeeping
- Value addition
- Gardner Nursery Worker
- Organic Farming
- In-Situ Crop Residue Management by New Farm Machineries
- Nutri-garden

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 (Horticulture), 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 (2021):
- II. Block: Najafgarh/Kapashera :Villages: Kanganheri, Shikarpur, Jhatikara & Daulat Pur  
Block: Alipur : Villages: Tigipur, Palla, Jangola, Sungerpur & Dariyapur
- III. No. of farm families selected per village: 10
- IV. No. of survey/PRA conducted: 05
- V. No. of technologies taken to the adopted villages: 5
- VI. Name of the technologies will be found suitable by the farmers of the adopted

Villages crop residue management (CRM), OFT, FLD, Marketing and Enterprises.

- VII. Impact (production, income, employment, area/technological–horizontal/vertical): will be assessed
- VIII. 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	25	-
Water	200	170	20	-
				-
<b>Total</b>	<b>700</b>	<b>620</b>	<b>45</b>	<b>-</b>



## 4.0 LINKAGES

### 4.1 Functional linkage with different organizations

Sl.No.	Name of organization	Nature of Linkage
1.	Indian Agricultural Research Institute, New Delhi	Adoption Agri-Technologies, Seeking technical support, demonstrations/ field visits/resource persons, Seminars, Farmers' group visits through NHRDF
2.	CCS Haryana Agricultural University, Hisar	Technical support, Adopting of improved Technologies
3.	National Horticultural Research & Development Foundation (NHRDF), New Delhi	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, New Delhi	Training of extension functionaries
5.	Development Department, Govt. of NCT Delhi	Collaborative work on solar plant and livelihood programmes
6.	State Animal Husbandry Department, Delhi	Collaborative animal camps, training of extension personnel's/ resource persons
7.	National Horticulture Board, Delhi	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	Providing support for establishment of FPO and farmers club
12	Directorate of Wheat Research	Conducting frontline demonstration at farmers field
13	National Research Center of Integrated Pest Management	Joint implementation of projects
14	Department of Education, Govt. of NCT, Delhi	Technical guidance on nutrition education, carrier 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	Conducting training
18	NAFED	Storage of onion & training to staff

#### 4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district Not existing in NCT, Delhi

S. No.	Programme	Nature of linkage
1		

#### 4.3 Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1		

#### 4.4 Nature of linkage with National Fisheries Development Board: NA

S. No.	Programme	Nature of linkage
1		

#### 5.0 Utilization of hostel facilities: NA

S. No.	Programme	No. of days
1		
	<b>Total</b>	

#### 6.0 Convergence with departments: Nil

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

- Mustard Variety Giriraj 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 practice.

#### 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 &amp; 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	
<b>Crop Production/Agronomy</b>										
June	PF	Agro-technique in Rice Cultivation	4	15	-	15	5	-	5	20
Nov	PF	Nutrients management in Rabi crops	4	15	-	15	5	-	5	20
Dec	PF	Integrated Weed Management in Wheat Crop	4	15	-	15	5	-	5	20
<b>Horticulture</b>										
May	PF	Layout and Management of Orchards	4	15	-	15	5	-	5	20
July	PF	Nursery raising of Horticultural crops	4	15	-	15	5	-	5	20
Nov	PF	Off season vegetables for get more income	4	15	-	15	5	-	5	20
<b>Livestock production and management</b>										
Nov	PF	Preparation of balance ration for dairy animals	4	15	-	15	5	-	5	20
<b>Agriculture Extension</b>										
Sept	PF	Formation of Farmer Club/ Farmers Producer Organization	4	15	-	15	5	-	5	20
Oct	PF	Capacity Development for ICTs Application	4	15	-	15	5	-	5	20
Nov	PF	Training on Digital / Online Marketing	4	15	-	15	5	-	5	20
<b>Home Science</b>										
July	PF	Designing & development of high nutrient efficient diet designing	4	-	15	15	-	-	-	15
June	RY	Value addition	4	2	11	13	-	2	2	15
<b>Plan Protection</b>										
July	PF	Use of bio pesticides management of vegetables pest and diseases	4	15	-	15	5	-	5	20
Nov	PF	Integrated pest management of cauliflower	4	15	-	15	5	-	5	20
<b>Soil Health</b>										
July	PF	Balance use of fertilizers in crops	4	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	
<b>Crop Production/ Agronomy</b>										
July	PF	Weed management in Paddy	4	15	-	15	5	-	5	20
July	PF	Integrated Nutrient Management in Kharif Crop	4	15	-	15	5	-	5	20
Oct.	PF	Integrated Nutrient Management in Oil Seed and Pulses Crops	4	15	-	15	5	-	5	20
Nov.	PF	Weed Management Practices in Rabi Crop	4	15	-	15	5	-	5	20
<b>Horticulture</b>										
July	PF	Nursery raising of vegetables	4	15	-	15	5	-	5	20
Oct	PF	Terrace gardening in peri urban area	4	15	-	15	5	-	5	20
Nov	PF	Exotic vegetables production in peri-urban Delhi	4	15	-	15	5	-	5	20
<b>Livestock production and management</b>										
July	PF	Vaccination in dairy animals against HS & BQ	4	15	-	15	5	-	5	20
Nov	PF	Round the year green fodder production	4	15	-	15	5	-	5	20
<b>Agriculture Extension</b>										
Aug.	PF	Training on leadership Development	4	15	-	15	5	-	5	20
Oct.	PF	Capacity Building for ICTs Application	4	15	-	15	5	-	5	20
<b>Home Science</b>										
February	PF	Household food security by kitchen gardening and nutrition gardening	3	-	15	15	-	5	5	20
September	PF	Designing and development for high nutrient efficiency diet	1	-	20	20	-	-	-	20
November	PF	Minimization of nutrient loss in processing	1	-	15	15	-	5	5	20
August	PF	Income generation activities for empowerment of rural Women	1	-	15	15	-	5	5	20
January	PF	Utilization of pearl millet by suitable processing techniques	2	-	15	15	-	5	5	20
<b>Plant Protection</b>										
Sept.	PF	Cultivation of mustard and their pest, disease management	4	15	-	15	5	-	5	20
<b>Soil Health</b>										
June	PF	Role of green manuring to improve soil	4	15	-	15	5	-	5	20

		health									
August	PF	Management of problematic soil	4	15	-	15	5	-	5	20	
Nov.	PF	Use of bio fertilizer in Wheat & mustard crop	4	15	-	15	5	-	5	20	
Dec.	PF	Importance of Soil Health Card for soil fertility management	4	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	-	15	15	-	5	5	20
Gardening	Employment generation	Assistant Gardner	July	21	15	-	15	5	-	5	20
Nursery	Employment generation	Nursery Worker	Sept.	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
Bee keeping	Honey production	Bee keeping	Jan	21	15	-	15	5	-	5	20
Organic Farming	Production of organic inputs	Organic Farming	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	
<b>On Campus</b>										
June	Development Department, Delhi	Management of reproductive disorders in bovines and vaccination schedule in cattle.	1	15	-	15	5	-	5	20
May	Development Department, Delhi	Importance of soil and water testing for soil fertility management	1	15	-	15	5	-	5	20
October	Aanganwadi workers	Low cost and nutrient	2	-	15	15	-	5	5	20

	& supervisors	efficient diet designing								
October	Development Department, Delhi	Promotion of Organic Farming in NCT Delhi	1	15	-	15	5	-	5	20
November	Horticulture Deptt., Delhi	Recent technology in Horticulture	1	15	-	15	5	-	5	20
December	Development Department, Delhi	Integrated Pest Management in vegetable crops	1	15	-	15	5	-	5	20
December	Department of agri, horticulture and anganwadi workers	Post-harvest technology for vegetables & fruits	2	-	15	15	-	5	5	20

#### 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	
Agri. Extn	ICAR	Farmers	In-Situ Crop Residue Management by Farm Machineries	1	M	F	T	M	F	T	30
					20	5	25	3	2	5	
Agri. Extn.	ICAR	Farmers	Operational Guidelines of farm machineries for In-Situ Crop Residue Management	1	20	5	25	3	2	5	30
<b>Total</b>				<b>2</b>	<b>40</b>	<b>10</b>	<b>50</b>	<b>6</b>	<b>4</b>	<b>10</b>	<b>60</b>

## 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	Onion	NHRDF Red	IPM	IPM in rabi onion	<i>Trichoderma viride</i> <i>Pseudomonas</i> , Yellow sticky & neem pesticide	Rabi 2020-21	4	10	Disease incidence (%) Yield kg/ha. Economics- Rs
2	Mustard	Giriraj	ICM	Newly released variety, Seed treatment & Weed mgt.	Seed, bio-fertilizer, fungicide & insecticide	Rabi- 2021-22	30	75	Yield kg/ha. Economics- Rs
3	Summer Mung	MH 421	ICM	Improved variety	Seed, biofertilizer, herbicide	Rabi- 2021-22	20	50	Yield kg/ha Economics- Rs
4	Onion	NHRDF 883	ICM	Newly released variety	Bulblets	Kharif 2021-22	2	10	Yield kg/ha. Economics- Rs
5	Chickpea	GNG-1958	ICM	Improved variety	Seed, biofertilizer, herbicide	Rabi- 2021-22	20	50	Yield kg/ha Economics- Rs
6	Marigold	PusaNarangi	Natural Resource Management	Performance evaluation	Seed	Rabi- 2020-21	4	10	Yield kg/ha Economics- Rs
					<b>Total</b>		<b>83.4</b>	<b>206</b>	

## Sponsored Demonstration (CRM)

Crop	Area (ha)	No. of farmers
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## Others Details of FLDs under NARI programme -

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demon.	Parameters identified
1.	Wheat	DBW-187	Nutrition security	Promotion of nutrient rich variety	Seed	Rabi 2021-22	4	10	Presence of macro nutrients
2.	Nutri-Garden	IIHR/ IARI	Validation of Nutri-Garden	Vegetables & fruits	Seed & Seedlings	Kharif & Rabi 2021-22	0.2	20	Yield Kg/ ha Saving (Rs.)/ Month
3.	Pearl Millet	AHB-1200	Nutrition security	Promotion of nutrient rich variety	Seed	Kharif 2021-22	2	5	Presence of micro nutrients

## Action Plan for Doubling Farmer Income in Adopted Village: - Tigipur & Palla

S.No.		Road Map for Doubling Farmer Income	Activities to be taken	Concerned Scientist
01.	Increase in production	<ul style="list-style-type: none"> <li>➤ Introduced Soil Health Card</li> <li>➤ Promotion Organic farming</li> <li>➤ Seed production</li> </ul>	<ul style="list-style-type: none"> <li>• Soil testing</li> <li>• Conduct FLD</li> <li>• Trainings</li> </ul>	
02.	Effective Use of Input	<ul style="list-style-type: none"> <li>➤ Provide good Quality Seed</li> <li>➤ Good Agricultural Practices</li> <li>➤ Used of Organic Input, Crop Residue management in Farmers field</li> </ul>	<ul style="list-style-type: none"> <li>• Trainings</li> <li>• OFT</li> <li>• Demonstrations</li> </ul>	
03.	Marketing Reforms	<ul style="list-style-type: none"> <li>➤ Formation of Farmer Producer Organization</li> <li>➤ Establishment of Input outlet of FPO</li> <li>➤ Apply for Market Space for FPO at Azadpur Mandi, Delhi</li> </ul>	Meetings, trainings	SMS (HS) SMS (Ext)
04.	Horticulture	<ul style="list-style-type: none"> <li>➤ Production of low volume high-Value Crops.</li> <li>➤ Vegetable &amp; flower production under protected condition.</li> <li>➤ Promotion of off season vegetable production.</li> <li>➤ Production of improved planting material Horticultural crops.</li> <li>➤ Quality Vegetables seed production</li> <li>➤ Landscaping &amp; gardening</li> <li>➤ Low cost nursery under shade net house</li> <li>➤ Papaya Cultivation</li> </ul>	<ul style="list-style-type: none"> <li>• Trainings</li> <li>• Skill Development training</li> <li>• Conduct FLD</li> <li>• Method Demonstration</li> </ul>	SMS (Hort.)
05.	Plant Protection	<ul style="list-style-type: none"> <li>➤ Promotion of mushroom farming</li> <li>➤ . Promotion of Apiculture</li> <li>➤ Seed Treatment.</li> <li>➤ Promotion of Integrated pest management strategies</li> <li>➤ Set up of compost preparation unit for mushroom (short duration)</li> </ul>	<ul style="list-style-type: none"> <li>• Trainings</li> <li>• Conduct FLD</li> <li>• Method demonstration</li> </ul>	SMS (PP)