

**ANNUAL PROGRESS REPORT (January, 2022 to June, 2023)**  
**KVK, MUZAFFARNAGAR-II**

**APR SUMMARY**

(Note: While preparing summary, please don't add or delete any row or columns)

**1. Training Programmes**

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	103	1730	330	2060
Rural youths	09	82	10	92
Extension functionaries	08	75	31	106
Sponsored Training	02	100	0	100
Vocational Training	0	0	0	0
<b>Total</b>	<b>122</b>	<b>1987</b>	<b>371</b>	<b>2358</b>

**2. Frontline demonstrations**

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	82	35.0	-
Pulses	129	42.0	-
Cereals	61	24.0	-
Vegetables	30	0.9	-
Other crops	96	44.0	-
Hybrid crops	0	0	-
<b>Total</b>	<b>398</b>	<b>145.9</b>	<b>-</b>
Livestock & Fisheries	13	0	13
Other enterprises	55	8.0	35
<b>Total</b>	<b>68</b>	<b>8.0</b>	<b>48</b>
<b>Grand Total</b>	<b>466</b>	<b>153.9</b>	<b>48</b>

**3. Technology Assessment & Refinement**

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
<b>Technology Assessed</b>			
Crops	11	38	38
Livestock	-	-	-
Various enterprises	03	09	09
<b>Total</b>	<b>14</b>	<b>47</b>	<b>47</b>
<b>Technology Refined</b>			
Crops	-	-	-
Livestock	-	-	-
Various enterprises	-	-	-
<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Grand Total</b>	<b>14</b>	<b>47</b>	<b>47</b>

**4. Extension Programmes**

Category	No. of Programmes	Total Participants
Extension activities	1307	7768
Other extension activities	47	mass
<b>Total</b>	<b>1354</b>	<b>7768 + mass</b>

### 5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
	Text only	845		26	18	34	21	944
	Voice only	-	-	-	-	-	-	-
	Voice & Text both	-	-	-	-	-	-	-
	<b>Total Messages</b>	<b>845</b>		<b>26</b>	<b>18</b>	<b>34</b>	<b>21</b>	<b>944</b>
	<b>Total farmers Benefitted</b>	-	-	-	-	-	-	<b>2500</b>

### 6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	-	-
Planting material (No.)	22575	Distributed to farmers
Bio-Products (kg)	-	-
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

### 7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	-	-
Water	-	-
Plant	-	-
<b>Total</b>	<b>-</b>	<b>-</b>

### 8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	01
2	Conferences	01
3	Meetings	12
4	Trainings for KVK officials	07
5	Visits of KVK officials	18
6	Book published	0
7	Training Manual	0
8	Book chapters	01
9	Research papers	0
10	Lead papers	0
11	Seminar papers	01
12	Extension folder	16
13	Proceedings	02
14	Award & recognition	02
15	On going research projects	0

## DETAIL REPORT OF APR - (Jan 2022 to June 2023)

### 1. GENERAL INFORMATION ABOUT THE KVK, MUZAFFARNAGAR-II

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

Address	Telephone		E mail
	Office	FAX	
<b>KRISHI VIGYAN KENDRA,</b> <b>Muzaffarnagar-II,</b> CHITTODA JHAL, CHITTODA, DISTT.-MUZAFFARNAGAR (U.P.) PIN- 251314 website : muzaffarnagar2.kvk4.in	9319304168	-	kvkmuzaffarnagar02@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
DIRECTORATE OF EXTENSION Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut.-250110	0121-2888511	0121-2888505 2888540	deesvpuat2014 @gmail.com

#### 1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
<b>Dr. Surendar Kumar,</b> Officer Incharge	-	9319304168	kvkmuzaffarnagar02@gmail.com

#### 1.4. Year of sanction: 2018



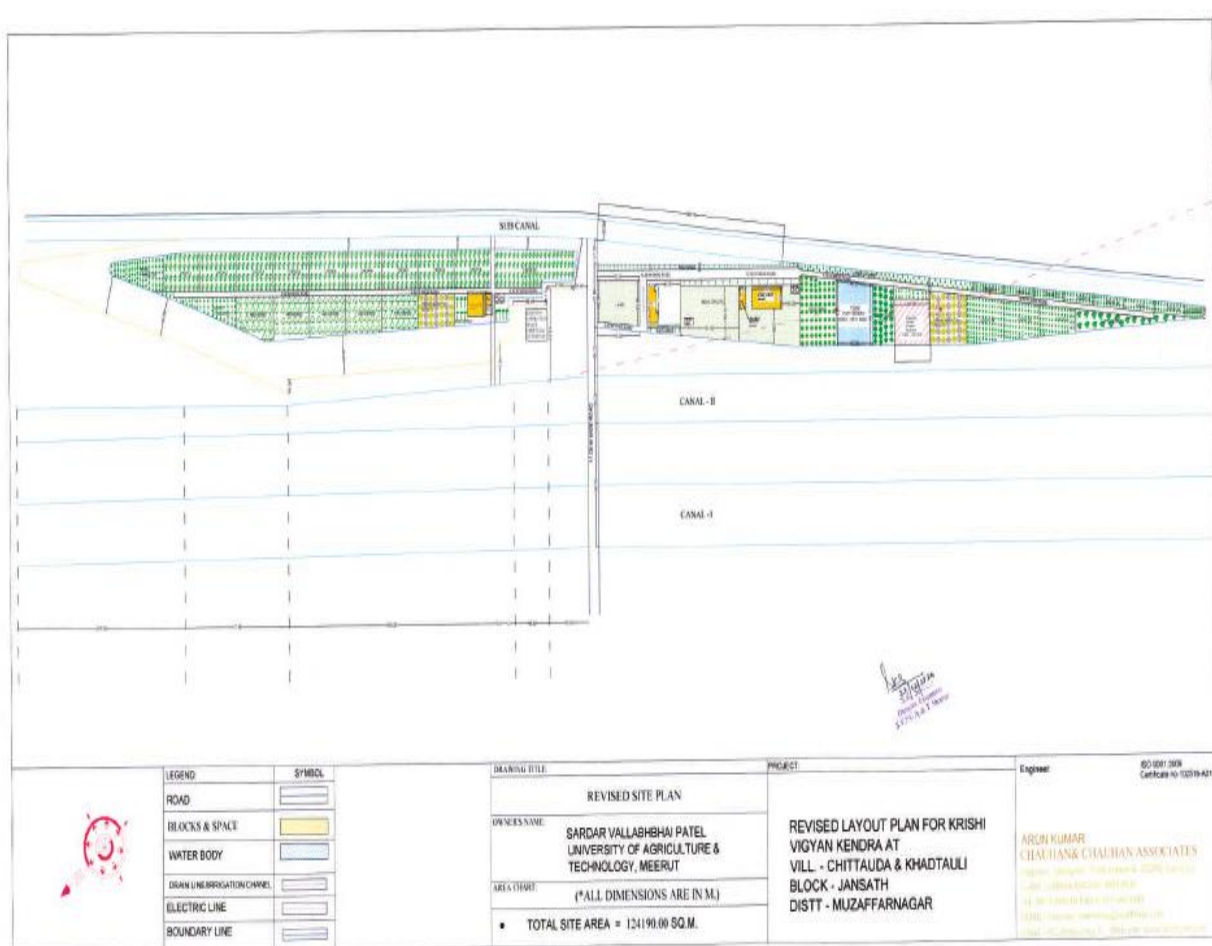
### 1.5. Staff Position (as on 31<sup>st</sup> May, 2023)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Subject	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile no.	Age	Email id
1	Programme Coordinator	--	--	--	--	--	--	--	--	--	-	--
2	Subject Matter Specialist	Dr. Surendra Kumar	SMS/ Asstt. Prof.	Agri. Extension	15600-39100 8000	1,01,100	18/07/08	Permanent	OBC	9319304168	57	sktanwar_kvkbaghat @ rediffmail.com
3	Subject Matter Specialist	Dr. Yesh Pal Singh	SMS/ Asstt. Prof.	Horticulture	15600-39100 8000	98,200	19/01/09	Permanent	OBC	9457111952	46	ypsingh76@gmail.com
4	Subject Matter Specialist	Smt. Saumya Pandey	SMS	Fisheries	15600-39100 8000	56100	06/07/22	Permanent	GEN	9453912200	28	saumyasmsfisheries@gmail.com
5	Subject Matter Specialist	Dr. Pooja	SMS	Home Science	15600-39100	56100	28/07/22	Permanent	OBC	9023739120	34	poojakaundal0007@gmail.com
6	Subject Matter Specialist	--	--	--	--	--	--	--	--	--	--	--
7	Subject Matter Specialist	--	--	--	--	--	--	--	--	--	--	--
8	Programme Assistant	Dr. Jitendra Arya	Programme Asstt.	Horticulture	9300-34800	86,100	01/07/98	Permanent	OBC	9412311554	55	jkarya67@gmail.com
9	Computer Programmer	Sh. U. S. Rathi	Programme Asstt., Computer	Computer Science	9300-34800	56,900	30/07/07	Permanent	OBC	9012347688	41	uttam.svp@gmail.com
10	Farm Manager	Sh. Sanjeev Kumar	Programme Asstt.,/ Farm Manager	Agronomy	9300-34800	68,000	23/01/04	Permanent	OBC	8392955124	53	sanjeevk1970@gmail.com
11	Accountant / Superintendent	--	--	--	--	--	--	--	--	--	--	--
12	Stenographer	--	--	--	--	--	--	--	--	--	--	--
13	Driver	Sh. Harish Kant Sharma	Driver	--	5200-20200	45,400	01/07/98	Permanent	GEN	9027224876	50	--
14	Driver	Sh. Vijender Singh	Driver	--	5200-20200	45,400	01/07/98	Permanent	OBC	9897367070	48	--
15	Supporting staff	Sh. Udaivir	Attendant	--	4440-7440	38,600	01/07/98	Permanent	OBC	8445125399	49	udaivirs055@gmail.com
16	Supporting staff	--	--	--	--	--	--	--	--	--	--	--

### 1.6. Total land with KVK (in ha) :12419

S. No.	Item	Area (ha)
1	Under Buildings	0.055
2.	Under Demonstration Units	0.015
3.	Under Crops	0.620
4.	Orchard/Agro-forestry	10.897
5	Others (Fisheries Pond)	0.582
6.	Others (Mela ground/ lawn)	0.250





## 1.7. Infrastructural Development:

### A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	Jan., 2022	550 sqm	15.84 lac	-	-	-
2.	Farmers Hostel	-	-	-	-	-	-	-
3.	Staff Quarters (6)	-	-	-	-	-	-	-
4.	Demonstration Units (2)	-	-	-	-	-	-	-
5.	Fencing	-	-	-	-	-	-	-
6.	Rain Water harvesting system	-	-	-	-	-	-	-
7.	Threshing floor	-	-	-	-	-	-	-
8.	Farm godown	-	-	-	-	-	-	-

### B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero Jeep (UP12 AG 0581)	2022	800000.00	10,500 KM	Working
Tractor (UP 12 BH 9776)	2022	800000.00	220 hrs.	Working
Motorcycle	-	-	-	-
Bicycle	-	-	-	-

## C) Equipments &amp; AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
<b>Equipments</b>			
Computer (02)	-	-	Working

## 1.8. A). Details SAC meeting\* conducted in the year 2022 (30.11.2022)

Name and Designation of Participants	Salient Recommendations	Action taken
<ol style="list-style-type: none"> <li>1. Dr. P.K. Singh, Director Extension, SVPUAT, Meerut</li> <li>2. Dr. Prabha Shanker Tiwari, Professor &amp; OIC, KVK, Muzaffarnagar-II</li> <li>3. Dr. Savita Arya, Assoc. Professor &amp; OIC, KVK, Muzaffarnagar-I</li> <li>4. Dr. U.P. Sahi, Assoc. Professor, SVPUAT, Meerut</li> <li>5. Dr. P.K. Singh, Assoc. Professor, SVPUAT, Meerut</li> <li>6. Dr. R.P. Chaudhary, Depty Director Agriculture, Muzaffarnagr</li> <li>7. Sh. Amrish Kumar, Chief Animal Medical Officer, Muzaffarnagar</li> <li>8. Sh. Yatendra Singh, District Agriculture Security Officer, Muzaffarnagar</li> <li>9. Sh. Sanjay Kumar, Progressive farmer</li> <li>10. Sh. Yogesh Baliyan, Progressive farmer</li> <li>11. Sh. Omkar Tyagi, Progressive farmer</li> <li>12. Sh. Ankur Tyagi, Progressive farmer</li> <li>13. Smt. Mamta, Progressive farmer</li> <li>14. Smt. Pratibha, A.H.G. Member</li> <li>15. Sh. Dheerender Sharma, Jr. Depty Supervisor</li> <li>16. Sh. Vinod, Sugarcane Supervisor</li> <li>17. Dr. Surender Kumar, SMS/Asstt. Professor (Agril. Extension), KVK, MZN-II</li> <li>18. Dr. Yes Pal Singh, SMS/Asstt. Professor (Horticulture), KVK, MZN-II</li> <li>19. Dr. Mohd. Hasnain, SMS (Agronomy), KVK, MZN-II</li> <li>20. Dr. Saumya Pandey, SMS (Fisheries), KVK, MZN-II</li> <li>21. Dr. Pooja, SMS (Home Science), KVK, MZN-II</li> <li>22. Dr. Virnedra, SMS (Plant Protection), KVK, MZN-I</li> <li>23. Dr. Deepak, SMS (Animal Husbandry), KVK, MZN-I</li> <li>24. Sh. Ajay Kumar, SMS (Entomology), KVK, Shamli</li> <li>25. Sh. Shakir Parvej, SMS (Agril. Extension), KVK, Shamli</li> </ol>	<ol style="list-style-type: none"> <li>1. Director Extension has advised that the vehicle of KVK, Chittoda can be shared by KVK, Baghra for 2 days in a week for smooth running of KVK Baghra.</li> <li>2. Dr. U.P. Shahi, Professor, SVPUAT, Meerut has a remarked that year 2022-23 is announced as International millets year so production Technology can be included in the action plan of agronomy</li> <li>3. Depty. Director Agriculture advised that the training for school dropouts' maybe increased in the action plan.</li> <li>4. Dr U.P. Shahi, Professor, SVPUAT, Meerut has advised that the chemical amidachloroprid may be replaced as other safe chemical.</li> <li>5. Dr. P.K. Singh, Director Extension has advised that the progress of FPO work, it is necessary to complete the registration of 300 farmers so that the budget can be demanded.</li> <li>6. Dr. R.P. Choudhary, DD (Ag.) has advised that the farmer visitors register should be maintained at KVK in which address and mobile number should be entered. He also said that the organic and natural farming farmer's record should be properly maintained.</li> <li>7. Shri. Yatendra Singh, PPO has said that the IPM techniques can be used in place of chemical control of disease and pest he also advise that the work of KVK should also be entered in WhatsApp of DM war room.</li> <li>8. Dr. U.P. Shahi said that in the</li> </ol>	<ol style="list-style-type: none"> <li>1. As per the direction of Director Extension the vehicle of KVK, Chittoda is shared with KVK, Hastinapur for 2 days in a week for smooth running of KVK.</li> <li>2. Year 2023 is being celebrated as International year of millets. In this context, several production technologies has been included in the Action Plan 2023.</li> <li>3. Two School dropouts' trainings for each discipline i.e. 12 School dropouts' trainings has been incorporated in the action plan as rural youth training.</li> <li>4. Chemical amidachloroprid may be replaced as other safe chemical.</li> <li>5. Registration of farmers in FPO is in progress and and the target to registered 300 farmers have been achieved. So the budget can be demanded.</li> <li>6. The farmers visitors register is already being maintained at KVK in which address and mobile numbers are also there. The record of organic and natural farming farmer's is already being maintained and we will continue to maintain in future.</li> <li>7. IPM techniques are already used in place of chemical control of disease and pest.</li> <li>8. The suggestion given by Dr. U.P. Shahi has been incorporated in the action plan.</li> <li>9. The demonstration of</li> </ol>

<p>26. Dr. J.K. Arya, Programme Asstt., KVK, MZN-II</p> <p>27. Sh. Sanjeev Kumar, Programme Asstt./Farm manager, KVK, MZN-II</p> <p>28. Sh. U.S. Rathi, Programme Asstt. Computer, KVK, MZN-II</p> <p>29. Sh. Ajay Kumar, Programme Asstt. computer, KVK, MZN-I</p> <p>30. Sh. Sudhir Kumar Dubey, Accountant, KVK, MZN-I</p> <p>31. Sh. Ajay Kumar, Programme Asstt. computer, KVK, MZN-I</p> <p>32. Sh. Ajesh Kumar Sharma, Attendant, KVK, MZN-I</p> <p>33. Sh. Udaivir, Peon, KVK, MZN-II</p> <p>34. Sh. Subhash, Driver, KVK, MZN-I</p>	<p>presentation of Plant Protection the dose and frequency of chemical used should be included and it should be cheapest in the market.</p> <p>9. Dr. U.P. Shahi advise that the demonstration of natural farming or organic farming should be demonstrated on KVK farm</p> <p>10. Dr. P.K. Singh, Associate Professor (Agronomy) has advised that the training of balance use of fertilize, poly house and intercropping in sugarcane should be increased in Action Plan</p> <p>11. Dr. P.K. Singh, Director Extension instructed that now Scientist of Agronomy has joined. So, the charge of CFLD is handed over to Dr. Mohd. Hasnain, SMS (Agronomy) from Dr. Surendra Singh, SMS (Agril. Extension)</p>	<p>natural farming, organic farming and chemical farming has been recently started at KVK farm to compare the all three farming techniques.</p> <p>10. The suggestion given by Dr. P.K. Singh has been incorporated in the action plan 2023.</p> <p>11. The charge of CFLD has been handed over to Dr. Mohd. Hasnain, SMS (Agronomy) from Dr. Surendra Singh, SMS (Agril. Extension)</p>
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## **2. DETAILS OF DISTRICT MUZAFFARNAGAR (31<sup>st</sup> March, 2023)**

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

<b>S. No</b>	<b>Farming system/enterprise</b>
1	S. Cane based + A.H + Horticulture
2	S. Cane based + A.H + Vegetable + Floriculture

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

<b>Sl. No.</b>	<b>AES</b>	<b>Characteristics of AES</b>	<b>Major Commodities</b>	<b>Farming System</b>	<b>Blocks</b>
1.	AES-1	More than 85% Area, Sandy Loam Soil	S.Cane, Wheat, Rice, Jowar, Mango, Potato	S. Cane based + A.H+ Horticulture + Mustard	Purkaji, Morna & Jansath
2.	AES-2	More than 95%, Sandy Loam	S.Cane, Wheat, Jowar, Brinjal, Cabbage, Gladiolus, Tuberose,	S. Cane based + A.H+ Vegetable+ Floriculture + Mustard	Khatauli

### **2.3 Soil type/s**

<b>S. No</b>	<b>Soil type</b>	<b>Characteristics</b>	<b>Area in ha</b>
1.	Sandy	2 - 0.2 mm,	17633
2.	Sandy loam	0.2 - 0.02 mm,	128334
3.	Loam	0.02 - 0.002 mm	78186
4.	Clay loam	>than 0.002 mm	5126
<b>Total</b>			<b>229279</b>

#### 2.4. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1.	Sugarcane	132004.00	-	812.00
2.	Wheat	80254	-	41.17
3.	Paddy	11580	-	23.36
4.	Blackgram	717	-	5.40
5.	Greengram	100	-	4.14
6.	Lentil	285	-	6.91
7.	Gram	270	-	10.74
8.	Pea	360	-	13.89
9.	Pigeon Pea	37	-	8.04
10	Mustard	4018	-	12.35
11	Potato	3260	-	230.01
12	Cotton	274	-	1.30
13	Maize	250	-	15.75

#### 2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
January 2022	59.8	17.6	6.5	91
February 2022	40.0	22.4	7.8	87
March 2022	116.0	26.4	12.4	80
April 2022	35.8	32.6	17.7	64
May 2022	53.4	35.6	22.4	64
June 2022	87.6	35.3	24.5	78
July 2022	324.8	33.0	23.9	79
August 2022	240.0	32.5	24.7	90
September 2022	40.0	34.1	23.8	87
October 2022	0.6	30.7	18.2	83
November 2022	33.2	26.7	13.2	83
December 2022	35.6	17.4	6.7	90

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

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	35460	413514 liter/day	1800-3178 liter/lactation
<i>Indigenous</i>	133459	40377 liter/day	1200-2270 liter/lactation
<b>Buffalo</b>	204306	1790140 liter/day	1360-2270 liter/lactation
<b>Sheep</b>			
Crossbred	223		

<i>Indigenous</i>	8478		
<b>Goats</b>	20429		
<b>Pigs</b>			
<i>Crossbred</i>	10543		
<i>Indigenous</i>	24856		
<b>Rabbits</b>	281		
<b>Poultry</b>			
Hens	54502		
<i>Desi</i>	109087		
<i>Improved</i>	1642		
Ducks	20		
Camel	41		

<b>Category</b>	<b>Area</b>	<b>Production</b>	<b>Productivity</b>
Fish	1239 ha	40887 qt	30-35 /ha
<i>Marine</i>			
<i>Inland</i>			
Prawn			
Scampi			
Shrimp			

## 2.7 Details of Operational area / Villages (31<sup>st</sup> December, 2022)

<b>Sl.No.</b>	<b>Taluk</b>	<b>Name of the block</b>	<b>Name of the village</b>	<b>Major crops &amp; enterprises</b>	<b>Major problem identified</b>	<b>Identified Thrust Areas</b>
1.	Khatauli	Khatauli	Nauna, Mogpur, Pal, Tajpur, Bhitara and Palda	Sugarcane	High infestation of insect & disease	Insect & disease mgt. through IPM
				Gladiolus	Low yield due to use of local variety and rotten corm	Introduction of HYV & Disease mgt.
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
2.	Jansath	Jansath	Nagla Kabir, Sikhada, Chittora, Nangla Mubarik	Sugarcane	Poor yield due to no use of organic matter	Promoting of organic manure
				Wheat	Low yield due to imbalance use of fertilizer	IPNM in Wheat
				Merigold	Use of local seed, High infestation of disease	Introduction of HYV Disease mgt.
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
				Barseem	Low yield due to local seed	Introduction of HYV
3.	Jansath	Morena	Tissa, Jolly, Mirja Rilla and Jatwada	Sugarcane	High infestation of insect & isease	Insect & disease mgt. through IPM
				Wheat	Low yield due to imbalance use of fertilizer	IPNM in Wheat
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
4.	Sadar	Purkaji	Sherpur, Amlawala and	Sugarcane	High infestation of insect & isease	Insect & disease mgt. through IPM

			Tuglakpur T	Wheat	Low yield due to imbalance use of fertilizer	IPNM in Wheat
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM

## 2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Sugarcane	Mechanization of Sugarcane Crop, Intercropping with Sugarcane, IPNM, Weed management, IPM, IDM, Seed production,
Wheat	Mechanization of Wheat Crop, Integrated Nutrient Management, Weed management, IPM, IDM, Seed production, Foliar application of Micronutrients
Rice	Mechanization of Rice Crop, IPNM, Weed management, Hybrid rice, IPM, IDM, Seed production
Vegetables	IPNM & IPM
Oilseeds & Pulses crop	Balancing fertilizer with application of Sulphur, IDM & IPM
Animals	Dairy Establishment, Endo & Eco parasite control, Improving fertility and mineral mixture in feeding

### Other thrust area:

1. In-situ management of crop residue.
2. Popularization of drip irrigation in horticulture & Sugarcane crop.
3. Use of plastic culture in agriculture for floriculture & off-season vegetable production.
4. Maintenance of soil productivity through soil test based nutrient management.
5. Promoting intercropping of Pulses, floriculture & vegetables with Sugarcane
6. Popularizing Bio- pesticides (Trichoderma, Beauveria Bassiana, etc) and Trychocard for management of early Shoot borer in Sugarcane crop.
7. Promoting high value floriculture as diversification enterprise for extra income generation.
8. Promoting off season vegetable nursery

### 3. TECHNICAL ACHIEVEMENTS

#### 3.A. Details of target and achievements of mandatory activities by KVK during Jan 2022 to June 2023

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
12	14	36	47	100	153.9	200	466

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	100	103	2000	2060				
Rural youth	12	09	120	92	-	1307	-	7768
Extn. Functionaries	24	08	360	106				
Sponsored	-	02	100	100				
<b>Total</b>	<b>136</b>	<b>122</b>	<b>2580</b>	<b>2358</b>	<b>-</b>	<b>1307</b>	<b>-</b>	<b>7768</b>

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200.00	-	-	20000	22575	-

### I.A TECHNOLOGY ASSESSMENT

#### Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Varietal Evaluation	Wheat	Varietal evaluation of timely sown wheat	7	7
	Wheat	Varietal evaluation of late sown wheat	7	7
	Wheat	Varietal evaluation of bio-fortified variety of wheat	4	4
	Wheat	Weed management by Atlantis (Indosulphuran + Misosulphuran) of wheat	4	4
	Paddy	Varietal evaluation of paddy	4	4
	Onion	Varietal evaluation of onion	6	6
	Okra	Varietal evaluation of okra	6	6
Resource Conservation Technology	Paddy	Resource conservation technology	3	3
<b>Total</b>			<b>41</b>	<b>41</b>

Summary of technologies assessed under **livestock** by KVKs: Nil



### Summary of technologies assessed under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers
Composite fish culture	Fish	Usage of proper dosage of fertilizer (lime) based on pH of the pond.	03	03
Women & child care	Infants	Breast feeding with ordinary home diet + weaning mixture	03	03
		<b>Total</b>	<b>06</b>	<b>06</b>

## I.B. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops by KVKs: Nil

Summary of technologies refined under various livestock by KVKs: Nil

Summary of technologies refined under various enterprises by KVKs : Nil

## I.C. TECHNOLOGY ASSESSMENT IN DETAIL

### OFT -1: VARIETAL EVALUATION

**Problem:** Low yield of existing varieties




**Problem definition:** Lower income from sugarcane monocrop cultivation

**Technology Assessed (as the case may be) :** Varietal evaluation of Onion.

KVK Muzaffarnagar-II has conducted On Farm Trial in **Rabi 2021-22** on “Varietal evaluation of Onion” testing variety of onion NHRDF RED-4 along with variety Agrifound Light Red under farmer practice. The results obtained from the trial showed that the variety NHRDF RED-4 performed higher yield 51.0 q/ha than Agrifound Light Red. NHRDF RED-4 gained net profit (Rs./ha.) Rs. 4,73000.00 in comparison to farmer's practice Rs. 3,38000.00.

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	BC ratio (Rs)
T <sub>1</sub> : Agrifound Light Red (Farmers Practice)	03	0.2	305.0	-	150000	488000	338000	1:3.25
T <sub>2</sub> : NHRDF RED-4		0.2	356.0	16.72	150000	623000	437000	1:4.15

Sale rate (Rs/q) = Onion (NHRDF RED-4) @ Rs. 1750 /q. & S Onion (Agrifound Light Red) @ Rs. 1750 /q.

**Farmers Feedback:** The variety NHRDF RED-4 found better in terms of high yield and farmers like dark red colour with good keeping quality.

**Scientist:** Dr. Yesh Pal Singh, Asstt. Professor (Horticulture)

### OFT -2: VARIETAL EVALUATION

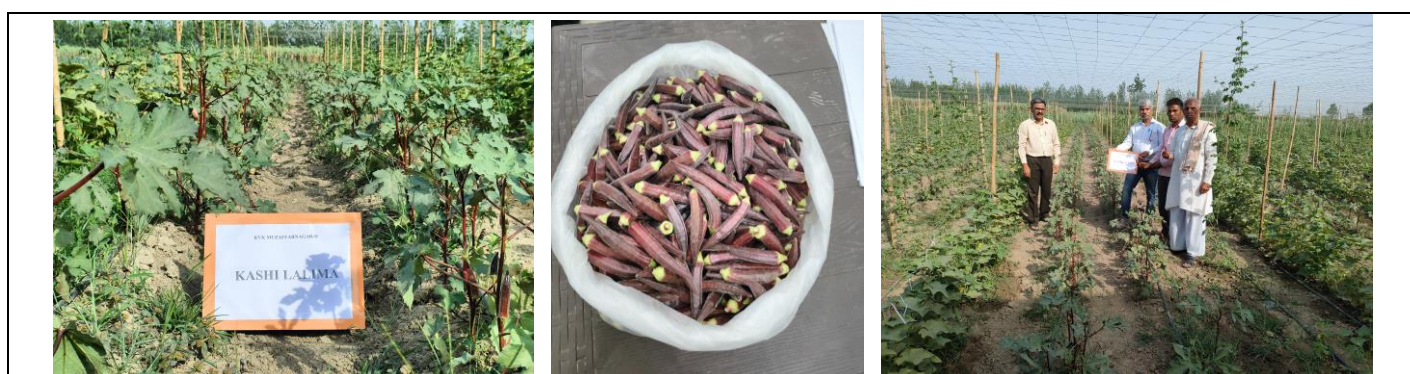
**Problem :** Low yield of existing varieties

**Technology Assessed (as the case may be) :** Varietal evaluation of Okra.

KVK Muzaffarnagar-II has conducted an On Farm Trial in **Zaid 2022** on “Varietal evaluation of Okra” testing variety of onion Kashi Lalima along with variety local variety under farmer practice. The results obtained from the trial showed that the variety Kashi Lalima performed higher yield 51.0 q/ha than local variety. Kashi Lalima gained net profit (Rs./ha.) Rs. 112750.00 in comparison to farmer's practice Rs. 85250.00.

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	BC ratio (Rs)
T <sub>1</sub> : Local variety (Farmers Practice)	03	0.2	101.0	-	41000	126250	85250	1:3.07
T <sub>2</sub> : Kashi Lalima		0.2	123.0	21.78	41000	153750	112750	1:3.75

Sale rate (Rs/q) = Okra @ Rs. 1250 /q.



**Farmers Feedback:** The variety Kashi Lalima found better in terms of high yield and farmers like dark red colour with good keeping quality.

**Scientist:** Dr. Yesh Pal Singh, Asstt. Professor (Horticulture)

### OFT -3: VARIETAL EVALUATION

**Problem:** Low yield of existing varieties

**Problem definition:** Lower income from sugarcane monocrop cultivation

**Technology Assessed (as the case may be) :** Varietal evaluation of Onion.

KVK Muzaffarnagar-II has conducted On Farm Trial in **Rabi 2022-23** on “Varietal evaluation of Onion” testing variety of onion NHRDF RED-4 along with variety Agrifound Light Red under farmer practice. The results obtained from the trial showed that the variety NHRDF RED-4 performed higher yield 44.0 q/ha than Agrifound Light Red. NHRDF RED-4 gained net profit (Rs./ha.) Rs. 4,27,500.00 in comparison to farmer's practice Rs. 3,09,000.00.

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	BC ratio (Rs)
T <sub>1</sub> : Agrifound Light Red (Farmers Practice)	03	0.2	306.0	-	150000	459000	309000	1:3.06
T <sub>2</sub> : NHRDF RED-4		0.2	350.0	12.57	150000	577500	427500	1:3.85



Sale rate (Rs/q) = Onion (NHRDF RED-4) @ Rs. 1650 /q. & S Onion (Agrifound Light Red) @ Rs. 1500 /q.

**Farmers Feedback:** The variety NHRDF RED-4 found better in terms of high yield and farmers like dark red colour with good keeping quality.

Scientist: Dr. Yesh Pal Singh, Asstt. Professor (Horticulture)

#### OFT - 4: VARIETAL EVALUATION

**Problem :** Low yield of existing varieties

**Technology Assessed (as the case may be) :** Varietal evaluation of Okra.

KVK Muzaffarnagar-II has conducted an On Farm Trial in **Zaid 2023** on “Varietal evaluation of Okra” testing variety of onion Kashi Lalima along with variety local variety under farmer practice. The results are awaited.

Scientist: Dr. Yesh Pal Singh, Asstt. Professor (Horticulture)

#### OFT - 5: VARIETAL EVALUATION

**Problem:** Low yield of existing varieties

**Technology Assessed (as the case may be):** Varietal evaluation of Timely sown wheat.

KVK, Chittora Muzaffarnagar has conducted On Farm Trial in **Rabi 2021-22** on “Varietal evaluation of timely sown wheat” testing variety of timely sown wheat HD 3226 along with variety HD 2967 under farmer practice. The results obtained from the trial showed that the variety HD 3226 performed higher yield 51.55 q/ha than HD 2967 with 44.00 q/ha. HD 3226 gained maximum net profit ₹ 63515/ha in comparison to ₹ 49980/ha from HD 2967.

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	BC ratio (Rs)
T <sub>1</sub> : HD 2967 (Farmers Practice)	03	0.8	44.00	-	40000	89980	49980	1:2.40
T <sub>2</sub> :HD 3226		0.8	51.55	17.04	40000	103515	63515	1:2.58

Sale rate (Rs/q) =Wheat grain @ 2015/q).





**Farmers Feedback:** The variety HD 3226 was found better in terms of high yield.

**Scientist:** Dr. Surendar Kumar, SMS/Asstt.Prof. (Ag. Extn)

### OFT - 6: VARIETAL EVALUATION

**Problem:** Low yield of existing varieties

**Technology Assessed (as the case may be):** Varietal evaluation of late sown wheat.

KVK, Chittora Muzaffarnagar has conducted On Farm Trial in **Rabi 2021-22** on “Varietal evaluation of late sown wheat” testing variety of timely sown wheat DBW 71 along with variety PBW 226 under farmer practice. The results obtained from the trial showed that the variety DBW 71 performed higher yield 48.5 q/ha than PBW 226 with 42.0 q/ha. DBW 71 gained maximum net profit ₹ 59727/ha in comparison to ₹ 46630/ha from HD 2967.

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	BC ratio (Rs)
T <sub>1</sub> : PBW 226 (Farmers Practice)	03	0.8	42.0	-	38000	84630	46630	1:2.22
T <sub>2</sub> : DBW 71		0.8	48.5	15.47	38000	97727	59772	1:2.57

**Sale rate (Rs/q) =Wheat grain @ 2015/q).**



**Farmers Feedback:** The variety DBW 71 was found better in terms of high yield.

**Scientist:** Dr. Surendar Kumar, SMS/Asstt. Prof. (Ag. Extn)

### OFT -7: VARIETAL EVALUATION

**Problem:** Low yield of existing varieties

**Technology Assessed (as the case may be):** Varietal evaluation of Basmati Rice.

KVK, Chittora Muzaffarnagar has conducted On Farm Trial in **Kharif 2022** on “Varietal evaluation of neck blast resistant variety of Basmati rice (PB 1637) testing in comparison to PB 1. The crop was transplanted on 01 July, 2022 and the results obtained from the trial showed that the variety PB 1637 performed higher yield 47.5 q/ha than PB-1 with 41.0 q/ha. PB 1637 gained maximum net profit ₹ 57850/ha in comparison to ₹ 44460/ha from PB-1.

**Result:**

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	BC ratio (Rs)
T <sub>1</sub> : PB-1 (Farmers Practice)	03	0.6	41.0	-	40000	84407	44460	1:2.11
T <sub>2</sub> : PB- 1637		0.6	47.5	15.47	40000	97850	57850	1:2.44



**Sale rate (Rs/q) = Basmati rice grain @ 2060/q.**

**Farmers Feedback:** The variety PB-1637 was found better in terms of high yield and disease resistance (neck blast).

**Scientist:** Dr. Surendar Kumar, SMS/Asst.Prof. (Ag. Extn)

### OFT - 8: VARIETAL EVALUATION

**Problem:** Low yield of existing varieties

**Technology Assessed (as the case may be):** Varietal evaluation of Timely sown wheat.

KVK, Chittora Muzaffarnagar has conducted On Farm Trial in **Rabi 2022-23** on “Varietal evaluation of timely sown wheat” testing variety of timely sown wheat DBW-187 along with variety HD 2967 under farmer practice. The results obtained from the trial showed that the variety DBW-187 performed higher yield 51.0 q/ha than HD 2967 with 45.00 q/ha. DBW-187 gained maximum net profit ₹ 65375/ha in comparison to ₹ 52675/ha from HD 2967.

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	BC ratio (Rs)
T <sub>1</sub> : HD 2967 (Farmers Practice)	04	0.8	45.0	-	43000	95625	52675	1:2.22
T <sub>2</sub> : DBW-187		0.8	51.0	13.33	43000	108375	65375	1:2.52

**Sale rate (Rs/q) = Wheat grain @ 2125/q.**

**Farmers Feedback:** The variety DBW-187 was found better in terms of high yield.

**Scientist:** Dr. Surendar Kumar, SMS/Asstt.Prof. (Ag. Extn)



## OFT -9: VARIETAL EVALUATION

**Problem:** Low yield of existing varieties

**Technology Assessed (as the case may be):** Varietal evaluation of late sown wheat.

KVK, Chittora Muzaffarnagar has conducted On Farm Trial in **Rabi 2022-23** on “Varietal evaluation of late sown wheat” testing variety of timely sown wheat DBW 71 along with variety PBW 226 under farmer practice. The results obtained from the trial showed that the variety DBW 71 performed higher yield 47.5 q/ha than PBW 226 with 44.0 q/ha. DBW 71 gained maximum net profit ₹ 59437/ha in comparison to ₹ 52000/ha from HD 2967.

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	BC ratio (Rs)
T <sub>1</sub> : PBW 226 (Farmers Practice)	04	0.8	44.0	-	41500	93500	52000	1:2.25
T <sub>2</sub> : DBW 71		0.8	47.5	7.95	41500	100937	59437	1:2.43

**Sale rate (Rs/q) =Wheat grain @ 2125/q).**



**Farmers Feedback:** The variety DBW 71 was found better in terms of high yield.

**Scientist:** Dr. Surendar Kumar, SMS/Asstt. Prof. (Ag. Extn)

## OFT - 10: RESOURCE CONSERVATION TECHNOLOGY

**Problem definition:** Burning of crop residues

**Technology Assessed or Refined (as the case may be):** Evaluation of wheat productivity after crop residue management

KVK, Muzaffarnagar-II conducted an on-farm trial to assess effect of incorporation of paddy straw in the field by use of mulcher to assess the production of wheat crop. The trial has conducted by use of super seeder on four different locations namely Village- Kutubpur, Kawal and Rahdwa and Ramraj in Jansath Block of Muzaffarnagar district. Wheat was sown in the month of November, 2022.

Result:

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	BC ratio (Rs)
T <sub>1</sub> : Wheat sowing after burning residue (Farmers Practice)	03	1.2	41.5	-	41000	88187	47187	1:2.15
T <sub>2</sub> : Wheat sowing after crop residue management (Mulchar & Super seeder)		1.2	43.0	3.61	41000	91375	50375	1:2.22

**Sale rate (Rs/q) = Wheat grain @ 2125/q.**

**Farmers Feedback:** Slightly increase in yield under CRM by mulchar.

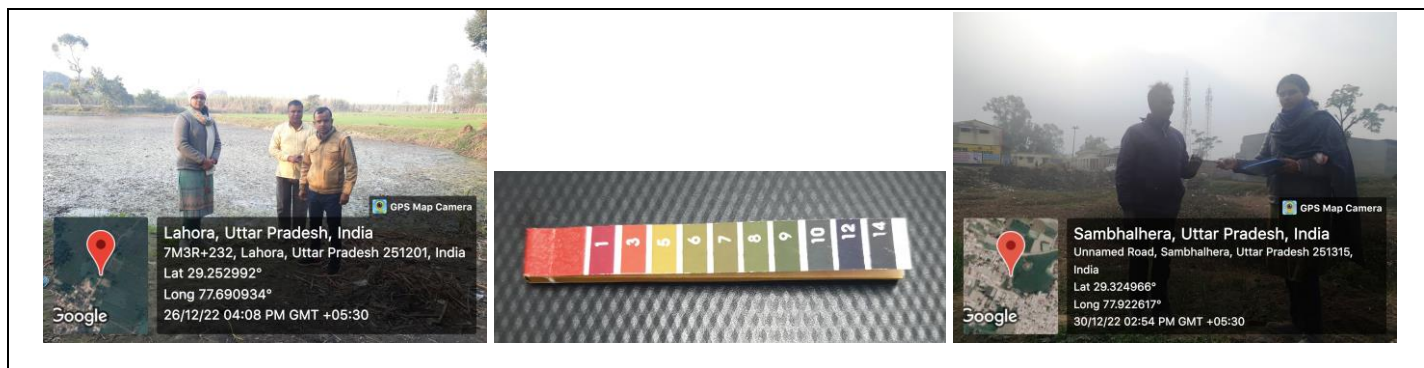
**Scientist:** Dr. Prabha Shanker Tiwari, Professor (Ag. Engg.)

### OFT - 11: FISH FERTILIZATION PRACTICES

**Problem definition:** Improper usage of fertilizers in the pond

**Technology Assessed or Refined (as the case may be) :** Usage of proper dosage of fertilizer (lime) base on pH of the pond.

KVK, Muzaffarnagar-II conducted on-farm trial to assess the usage of lime powder based upon the pH of the pond. One pH strip and 100 kg of lime powder was disseminated to three different ponds on 3 different location (Village- Chittoda, Sambhalheda and Lohda).



Result: **Awaited**

**Scientist:** Smt. Saumya Pandey, SMS (Fisheries)

### OFT - 12: WOMEN & CHILD CARE

**Problem definition:** Lack of knowledge about complimentary food, stage of weaning which results in poor health status of infants.

**Technology Assessed or Refined (as the case may be) :** Breast feeding with ordinary home diet + weaning mixture.

KVK, Muzaffarnagar-II conducted an on-farm trial to assess height and weight of infants. 25-50 g weaning mixture was given to selected 03 childrens according to their age for the period of 3 months. Weaning mix prepared at KVK campus with cereals, pulses, groundnut and carrot powder and sugar.

Result: **Awaited**

**Scientist:** Dr. Pooja, SMS (Home Science)

### OFT - 13: VARIETAL EVALUATION

**Problem:** Low yield of existing varieties

**Technology Assessed (as the case may be):** Varietal evaluation of Bio-fortified variety of wheat.

KVK, Chittora Muzaffarnagar has conducted On Farm Trial on “Varietal evaluation of Bio-fortified variety (WB-02) of wheat” under farmer practice with the variety HD-2967. The trial was conducted at 04 locations, which were Nangla Mubarik, Pal and Bhayangi and Nona village. The trial was started in the month of November, 2022 and same was harvesting April, 2023.

Result:

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	BC ratio (Rs)
T <sub>1</sub> : HD 2967 (Farmers Practice)	04	0.8	45.0	-	43000	95625	52625	1:2.22
T <sub>2</sub> : WB-02 (Bio-fortified variety)		0.8	49.0	8.8	43500	104125	60625	1:2.39

**Sale rate (Rs/q) = Wheat grain @ 2125/q.**

**Farmers Feedback:** The variety WB-02 was found better in terms of high yield.

**Scientist:** Dr. Mohd. Hasnain, SMS (Agronomy)



## OFT - 14: INTEGRATED WEED MANAGEMENT

**Problem:** High weed infestation

**Technology Assessed (as the case may be):** Weed management by Atlantis (Indosulphuran + Misosulphuran) of wheat.

KVK, Chittora Muzaffarnagar has conducted On Farm Trial on “Weed management in wheat”. The trial was conducted at 04 locations. The trial was started in the month of December, 2022 and same was harvested in April, 2023.

Result:

Technology Option	No. of trials	Area (ha.)	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross returns (Rs)	Net returns (Rs)	BC ratio (Rs)
T <sub>1</sub> : Conventional weed control (Farmers Practice)	04	0.8	44.0	-	43000	93500	50500	1:2.17
T <sub>2</sub> : Application of Atlantis (Indosulphuran + Misosulphuran)		0.8	46.5	5.68	41000	98812	57812	1:2.41



Sale rate (Rs/q) = Wheat grain @ 2125/q.

**Farmers Feedback:** Atlantis (Indosulphuran + Misosulphuran) weedicides effecting to control of major seasonal weeds.

**Scientist:** Dr. Mohd. Hasnain, SMS (Agronomy)

## II. FRONTLINE DEMONSTRATION

### a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2022-23 and recommended for large scale adoption in the district

S. No	Crop/Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1	Sugarcane	IPM	Trichocard	Demonstrations and trainings	33	332	400.0
2	Sugarcane	INM	Micronutrients	Field Demonstrations	16	161	200.0
3	Rice	Weed Management	Bispyriback Sodium	Field Demonstrations	04	24	35.00

\* Thematic areas as given in Table 3.1 (A1 and A2)

### b. Details of FLDs implemented during Jan 2022 to June 2023

(Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl.No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
<b>OILSEEDS</b>										
1	Mustard	Varietal evaluation	PM-31 (Biofortified variety)	Rabi 2021-22	10. 0	14.91	0	30	30	-
<b>PULSES</b>										
1	Chick pea	Varietal evaluation	Improved variety GNG -2171	Rabi 2021-22	10. 0	10.0	0	30	30	-
2	Urd Summer	Varietal evaluation	Improved variety PU-31	Summer 2022	10.0	11.2	0	33	33	
3	Urd Kharif	Varietal evaluation	Improved variety PU-31	Kharif 2022	10.0	10.8	0	38	38	
<b>CEREALS</b>										
1	Wheat	Varietal evaluation	Timely sown wheat variety DBW -187	Rabi 2021-22	4.0	4.0	0	10	10	-
2	Wheat	Varietal evaluation	Late sown wheat variety DBW-173	Rabi 2021-22	4.0	4.0	0	10	11	-
3	Wheat	Varietal evaluation	Timely sown wheat variety DBW 303	Rabi 2022-23	4.0	4.0	0	10	10	-
4	Wheat	Varietal evaluation	Late sown wheat variety DBW 173	Rabi 2022-23	4.0	4.0	0	10	10	-

5	Wheat	Weed management	Weed management by Metsulfuron Methyl + Sulfosulfuron (Total) weedicide	Rabi 2022-23	4.0	4.0	02	08	10	-
3	Paddy	Weed Management	Bispyriback Sodium	Kharif-2022	4.0	4.0	0	10	10	-
4	Paddy	Varietal evaluation	Replacement of old variety PB 1 by PB 1637	Kharif-2022	4.0	1.6	0	04	04	-
<b>CASH CROPS</b>										
1	Sugarcane	IPM	Use of Trichocard	Kharif-2021	15.0	16.0	0	32	32	-
2	Sugarcane	INM	Application of Micronutrients	Kharif-2021	4.0	4.0	0	12	12	-
3	Sugarcane	IPM	Use of Trichocard	Kharif-2022	20.0	20.0	0	43	43	-
4	Sugarcane	INM	Application of Micronutrients	Kharif-2022	4.0	4.0	0	13	13	-
<b>HORTICULTURAL CROPS</b>										
1	Onion	Varietal evaluation	Improved variety i.e. Agrifound light red	Rabi 2021-22	0.2	0.2	0	10	10	-
2	Garlic	Varietal evaluation	Improved variety i.e. Yamuna Safed 3 (G-282)	Rabi 2021-22	0.2	0.2	0	10	10	-
3	Onion	Varietal evaluation	Improved variety i.e. Bhima Shakti	Rabi 2022-23	0.5	0.5	0	10	10	-

#### Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Mustard	Rabi 2021-22	Irrigated	Sandy Loam	0.37	31	232	Fodder/ Rice	10-20 Oct., 2021	28 Feb. to 07 Mar. 2022	-	-
Wheat	Rabi 2021-22	Irrigated	Sandy Loam	0.37	31	232	Fodder	13 Nov. 2021	14 Apr. 2022	-	-
Wheat	Rabi 2021-22	Irrigated	Sandy Loam	0.37	31	232	Fodder	02 Dec. 2021	21 Apr. 2022	-	-
Paddy	Kharif-2022	Irrigated	Sandy Loam	0.39	26	214	Wheat	27 Jul., 2022	25-30 Oct., 2022	-	-
Paddy	Kharif-2022	Irrigated	Sandy Loam	0.39	26	214	Wheat	28 Jul., 2022	Crop standing	-	-
Sugarcane	Kharif-2021	Irrigated	Sandy Loam	0.40	38	213	Wheat/ Rotton	13 Mar., 2022	01 Jan. to 15 Feb. 2022	-	-
Sugarcane	Kharif-2021	Irrigated	Sandy Loam	0.40	38	213	Wheat/ Rotton	17 Mar., 2022	17 Jan. to 03 Mar. 2022	-	-

Sugarcane	Kharif-2022	Irrigated	Sandy Loam	0.40	38	213	Mustar/ Wheat	13 Mar., 2022	Crop standing	-	-
Sugarcane	Kharif-2022	Irrigated	Sandy Loam	0.40	38	213	Mustar/ Wheat	17 Mar., 2022	Crop standing	-	-
Chick pea	Rabi 2021-22	Irrigated	Sandy Loam	0.39	26	214	Paddy	21-30 Oct., 2021	01-07 Apr., 2022	-	-
Onion	Rabi 2021-22	Irrigated	Sandy Loam	0.40	38	213	Paddy	20-28 Dec., 2021	15-20 Apr., 2022	-	-
Garlic	Rabi 2021-22	Irrigated	Sandy Loam	0.40	38	213	Paddy	20-28 Nov., 2021	15-20 Apr., 2022	-	-
Onion	Rabi 2022-23	Irrigated	Sandy Loam	0.40	38	213	Paddy	10-21 Dec., 2022	12-22 May, 2023	-	-
Mustard	Rabi 2022-23	Irrigated	Sandy Loam	0.37	31	232	Fodder and Paddy	14-26 Oct., 2022	17-24 Mar., 2023	-	-
Blackgram	Kharif 2022	Irrigated	Sandy Loam	0.40	38	213	Fodder	08-18 Aug., 2022	02-17 Nov., 2022	-	-
Blackgram	Zaid 2023	Irrigated	Sandy Loam	0.37	31	232	Sugarcane	11-27 Mar., 2023	Crop standing	-	-
Wheat	Rabi 2022-23	Irrigated	Sandy Loam	0.39	26	214	Fodder	01-23 Nov. 2022	09-14 Apr. 2023	-	-
Wheat	Rabi 2022-23	Irrigated	Sandy Loam	0.37	31	232	Fodder	20 Nov. to 02 Dec. 2022	17-21 Apr. 2023	-	-
Wheat	Rabi 2022-23	Irrigated	Sandy Loam	0.37	31	232	Fodder	02-22 Dec. 2022	18-24 Apr. 2023	-	-

#### Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	07	02-03-2022 04-03-2022 01-11-2022 07-11-2022 16-01-2023 07-02-2023 27-02-2023	40 46 25 28 30 26 30	
2	Farmers Training	05	11-10-2021 13-12-2021 05-02-2022 17-02-2022 13-03-2022	20 20 20 20 20	
3	Media coverage	-	-	-	
4	Training for extension functionaries	-	-	-	

## Performance of Frontline demonstrations

### Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Parameters name (No. of branches, No. of tillers, No. of pods or grains per plant, duration (days), No. of plants/sq mt.)	Result of main parameter				% Advantage	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
							Demo plot			Check plot		Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
							High	Low	Average			High	Low	Average										
<b>Mustard</b>																								
	Varietal evaluation	PM-31 (Biofortified variety)	PM-31	30	15.0	<ul style="list-style-type: none"> <li>No. of branch per plant</li> <li>No. of seed per pod</li> </ul>	17	13	15	16	-6.60	22.0	17.0	19.54	16.6	14.7	26000	126750	100750	4.87	26000	110500	84500	4.17
																								
	Varietal evaluation	Use of improved variety RH 725 with balanced fertilization	RH 725	52	20.0	<ul style="list-style-type: none"> <li>No. of branch per plant</li> <li>No. of seed per pod</li> </ul>	21	16	19	17	11.76	24.0	15.0	19.6	18.1	8.28	28400	118000	89600	4.1	28400	108000	79600	3.8





\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\*  $BCR = \text{GROSS RETURN} / \text{GROSS COST}$

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD) PM 31

S. No	Feed Back for researchers	Feedback for line department
1	Average yield OF PM-31 is comparatively high as compared to existing local varieties.	Good for human health because of low content of erucic acid and glucosinates in PM-31
2	Height of plant of RH 725 variety is more (150 – 160 cm) as compared to local variety.	RH-0725 Variety is good but delayed sowing badly effects on yield and branching pattern.

Technical feedback on specific technologies demonstrated in FLDs

S. No	Feed Back
1	PM-31 : Uniform and early maturity (last week of Feb to 13 <sup>th</sup> March) and suitable in sugarcane-wheat cropping system
2	RH-725 : Higher potential yield (up to 28 qtl/hac) with moderate duration i.e. 136-143 days.



**Frontline demonstration on pulse crops (Cluster frontline demonstration of pulses under NFSM)**

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Parameters name (No. of branches, No. of tillers, No. of pods or grains per plant, duration (days), No. of plants/sq mt.)	Result of main parameter				% Advantage	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
							Demo plot			Check plot		Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
							High	Low	Average			High	Low	Average										
Chickpea	Varietal evaluation	Improved variety GNG-2171	GNG-2171	30	10.0	• No. of pods per plant	42	35	38	32	9.37	16.5	13.0	14.0	12.5	12	28000	73200	45200	2.61	28000	65375	37375	2.33



Urd Summer 2022	Varietal evaluation	Improved variety PU-31	PU-31	33	11.2	• No. of pods per plant • No. of grains per pod	41 12	37 10	39 11	38 10	2.63 10.0	10.5	7.5	9.8	8.0	22.5	22000	61740	39740	3.05	22000	39740	25250	1.80





Urd Kahrif 2022																							
Varietal evaluation	Improved variety PU-31	PU-31	38	10.8	<ul style="list-style-type: none"> <li>•No. of pods per plant</li> <li>•No. of grains per pod</li> </ul>	56	52	47	45	4.4	11.5	9.0	10.25	9.0	13.88	17000	676500	505650	3.97	17000	59400	42400	3.49



Urd Summer 2023																							
Varietal evaluation	Improved variety PU-31	PU-31	25	10.0	<ul style="list-style-type: none"> <li>•No. of pods per plant</li> <li>•No. of grains per pod</li> </ul>					Result Awaited													

**Rate:** Chickpea @ Rs. 5200 / qtl and Urd @ Rs. 5400 / qtl

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	Feed Back for researchers	Feedback for line department
1	Chickpea: No infestation of wilt disease in GNG 2171 variety	15-30 Oct is proper time of sowing but successfully can sown in the month of November
2	Black gram PU-31: Uniform maturity and very low infestation mosaic	Highly suitable in kharif sowing especially in-between fodder and wheat as a catch crop

Technical feedback on specific technologies demonstrated in FLDs

S. No	Feed Back
1	Bad planting method is proper to get higher yield and minimizing the bad effects of flood irrigation
2	Crop may badly effect in heavy rainfall/ heavy flood irrigation so drainage is necessity in field.

## FLD on Other crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Parameters name (No. of branches, No. of tillers, No. of pods or grains per plant, duration (days), No. of plants/sq mt.)	Result of main parameter					Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
							Demo plot			Check plot	% Advantage	Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
							High	Low	Average			High	Low	Average										
<b>Cereals</b>																								
<b>Wheat</b>																								
Rabi 21-22	Varietal evaluation	Timely sown wheat variety DBW 187	DBW 187	10	4.0	•No. of plants /sq mt •No. of grains per ear	55 86	48 72	52 82	49 75	6.1 9.3	51.0	46.5	49.00	41.5	18.05	40000	98735	58735	2.46	40000	83622	33622	2.09
Rabi 21-22	Varietal evaluation	Late sown wheat variety DBW 173	DBW 173	11	4.0	•No. of plants /sq mt •No. of grains per ear	51 81	46 70	48 76	46 73	4.3 4.1	48.5	44.2	46.0	39.0	17.94	38000	92690	54690	2.43	38000	78585	40585	2.06
Rabi 22-23	Varietal evaluation	Timely sown wheat variety DBW 303	DBW 303	12	4.0	•No. of plants /sq mt •No. of grains per ear	56 88	49 80	53 84	50 81	6.0 3.7	51.0	47.0	48.5	43.0	12.79	43000	103063	60063	2.40	43000	91375	48375	2.13
Rabi 22-23	Varietal evaluation	Late sown wheat variety DBW 173	DBW 173	08	4.0	•No. of plants /sq mt •No. of grains per ear	51 82	47 76	49 79	48 78	2.0 1.3	48.0	44.0	47.0	41.0	13.25	42000	99875	57875	2.38	42000	88175	46175	2.10
Rabi 22-23	Weed management	Weed management by Metsulfuron Methyl + Sulfosulfuron (Total) weedicide	HD 2967	10	4.0	•No. of weed /sq mt	8	6	7	18	-57	47.5	41.0	44.0	41.0	7.31	41000	101000	60000	2.44	41000	87125	46125	2.12
<b>Paddy</b>																								
	Weed management	Bispyribac sodium @80g/ha	-	10	4.0	•No. of weed /sq mt	11	9	10	33	-69	42.0	36.0	40.0	38.0	5.26	38000	82400	46400	2.28	36000	78280	40280	2.06





Cash Crops																									
Sugarcane																									
	INM	Application of micronutrient @25 kg ZnSo4+12.5 kg CuSo4+ 12.5 kg FeSo4 and 3 kg Borax/ha	CoS 0238	12	4.0	•No. of tillers per plant •No. of plants /sq mt	10	8	9	8	12.5	825	720	780	700	11.42	95000	273000	178000	2.87	92000	245000	153000	2.66	
	IPM	Applicaation of Trichocard for control of Borer	CoS 0238	32	16.0	•No. of tillers per plant •No. of plants /sq mt	8	7	7.5	7.5	-	750	650	680	650	4.61	92000	238000	146000	2.58	96000	227500	131500	2.36	





INM	Application of micronutrient @25 kg ZnSo4+12.5 kg CuSo4+ 12.5 kg FeSo4 and 3 kg Borax/ha	CoS 0238	10	4.0	•No. of tillers per plant •No. of plants/sq mt	9 27	7 21	8.5 24	7.5 23	13.33 4.30	780	620	675	600	12.5	102000	236250	134650	2.31	100000	210000	110000	2.1
IPM	Application of Trichocard for control of Borer	CoS 0238	43	20.0	•No. of tillers per plant •No. of plants/sq mt	8 26	7 24	7.5 25	7.5 25	- -	720	600	650	600	8.33	98000	227500	129500	2.32	103000	210000	107000	2.03



Vegetable																								
Onion	Varietal evaluation	Improved variety i.e. Agrifound light red	Agrifo and light red	10	0.2	•Duration (days) •Bulb diameter (cm)	165 6.0	155 4.0	160 5.0	165 4.5	-3.1 10.0	365	292	320	271	17.9	150000	512000	362000	3.41	150000	434240	284240	2.89
	Varietal evaluation	Improved variety i.e. Bhima Shakti	Bhima Shakti	10	0.5	•Duration (days) •Bulb diameter (cm)	135 6.5	125 5.0	130 6.0	160 5.0	-18.7 16.7	360	290	326	295	9.5	150000	537900	387900	3.59	150000	442500	292500	2.95



Onion variety Agrifound Light Red



Onion variety Bhima Shakti

Garlic																							
Varietal evaluation	Improved variety i.e. Yamuna Safed 3 (G-282)	Yamuna Safed 3 (G-282)	10	0.2	<ul style="list-style-type: none"> <li>•Duration (days)</li> <li>•No. of cloves per bulb</li> </ul>	140	120	130	136	-4.4	178	148	161	134	20.14	86367	322000	235000	3.72	86367	261300	174935	3.02



Garlic variety- Yamuna Safed 3 (G-282)

Rate (Rs/q) = Onion @ 1600 /q. in local and 1600 /q in demo, Garlic @ 1950 /q. in local and 2000 /q in demo.

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	Feed Back for researchers	Feedback for line department
1	Dual bulb problem can be improved in onion variety Bhima Shakti	Uniform neck fall and good storability (5-6 months) in onion variety Bhima Shakti

Technical feedback on specific technologies demonstrated in FLDs

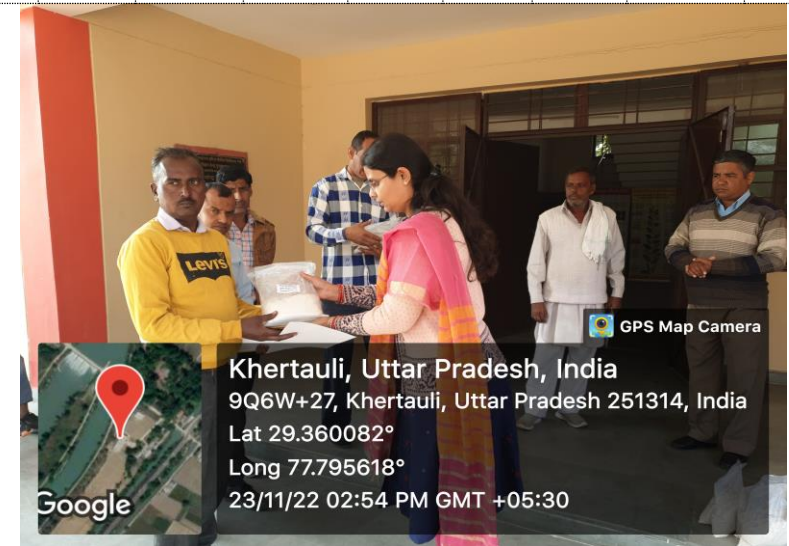
S. No	Feed Back
1	Onion variety Bhima Shakti having high yield, good colour, uniform neckfall and very good storability
2	Onion variety Agrifound Light Red having high yield with attractive colour.
3	Yamuna Safed 3 (G-282) variety of garlic having high yield and large bulb size.



FLD on Livestock : NIL

FLD on Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% Change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)				
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)	
Composite fish culture																		
	Health management	Use of Waltermin powder @ 20kg/ha to increase minerals and nutrients in water and soil.	13	13	•Mortality •Growth	•Mortality •Growth												



\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

FLD on Other enterprises : Nil

FLD on Women Empowerment: Nil

### FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total
Seed drill/ Super seeder	Wheat	Sowing of wheat by seed drill	10	4.0	<ul style="list-style-type: none"> <li>Irrigation (hr)</li> <li>Productivity (qtl)</li> </ul>	9.5 44.5	11 40.0	13.63 11.25	3	5	7	15	1200	2000	2800	6000
Mulcher	Wheat	Crop residue management by mulcher	10	4.0	<ul style="list-style-type: none"> <li>Irrigation (hr)</li> <li>Productivity (qtl)</li> </ul>	10 42	10.5 39	5.00 7.69	-	-	14	14	-	-	5600	5600



Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	Feed Back for researchers	Feedback for line department
1	Increase in number of plants per sq metre 18% and yield 15% respectively	Promote the mulchar practice in sugarcane (ratoon) field before sowing of wheat

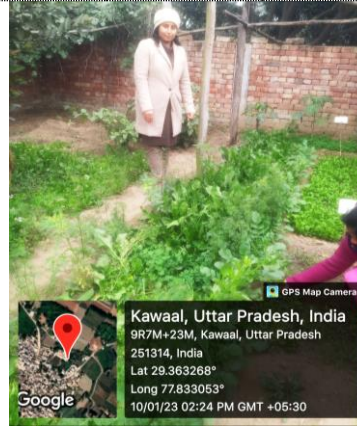
Technical feedback on specific technologies demonstrated in FLDs

S. No	Feed Back
1	Use of mulchar may help in maintain organic level as well as water stress of plants.



### FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg/100m <sup>2</sup> )		% change in yield	Other parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Nutritional garden (Rabi)	Food security	Growing of seasonal vegetables and fruits	15	15	88	79	11.39	<ul style="list-style-type: none"> <li>Regular supply of vegetables</li> <li>Chemical free vegetable</li> <li>Saving Rs 50 /day</li> <li>Nutrient rich diet</li> </ul>	<ul style="list-style-type: none"> <li>Irregular supply of vegetables</li> <li>Mostly contain chemical &amp; pesticide residue</li> <li>Extra expenditure</li> <li>Less nutrient rich diet</li> </ul>	26000	88000	62000	3.30	27000	71000	44000	2.63



Nutritional garden

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	Feed Back for researchers	Feedback for line department
1	The family consumed fresh and organic vegetables in sufficient amount.	Involvement of women should be ensured in production as well as cooking
2	Other neighboring female also got motivated to set up their own kitchen garden	
3	The extra expenditure to procure vegetable reduces which lead to more saving	

Technical feedback on specific technologies demonstrated in FLDs

S. No	Feed Back
1	With a little expenditure on seeds the family got good quality of vegetables throughout the season.

### FLD on Other Enterprise: Drudgery reduction

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg/100m <sup>2</sup> )		% change in yield	Other parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Sugarcane	Drudgery reduction	Use of Protective gloves during sugarcane harvesting	20	20	-	-	-	<ul style="list-style-type: none"> <li>• Comfort during work</li> <li>• Enhance work efficiency</li> <li>• Minimum work hazard</li> </ul>	<ul style="list-style-type: none"> <li>• Uncomfortable working conditions</li> <li>• Reduce work efficiency</li> <li>• May lead to work hazard</li> </ul>	-	-	-	-	-	-	-	-



Use of Protective gloves during sugarcane harvesting

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	Feed Back for researchers	Feedback for line department
1	Colour of the gloves is white which get dirty so there is need to clean them frequently.	It should be promoted among sugarcane growers.

Technical feedback on specific technologies demonstrated in FLDs

S. No	Feed Back
1	Plastic coating can be done on the fabric so as to increase its durability and washfastness.

FLD on Demonstration details on crop hybrids (Details of Hybrid FLDs implemented during 2023): Nil



### III. Natural Farming

#### 1) Crop Harvesting Details

Name of KVK	Crop Details Under Demonstration										Date of Sowing	Date of Harvesting
	Natural farming					Farmer's Practice						
	Name of Crop	Variety	Area (ha)	Yield (Q/ha)	Total Cost of Cultivation (Rs./ha)	Name of crop	Variety	Area (ha)	Yield (Q/ha)	Total Cost of Cultivation (Rs./ha)		
KVK, Muzaffarnagar-II	Wheat	Bansi	0.2	29.60	21632.00	Wheat	Bansi	0.2	32.10	43265.00	28.11.22	22.04.23
KVK, Muzaffarnagar-II	Mustard	RH 725	0.2	18.95	17980.00	Mustard	RH 725	0.2	26.90	32460.00	16.10.22	25.03.23
KVK, Muzaffarnagar-II	Wheat	Bansi	0.2	29.90	21750.00	Wheat	Bansi	0.2	30.60	42650.00	23.11.22	20.04.23
KVK, Muzaffarnagar-II	Wheat	DBW 303	0.2	47.20	21950.00	Wheat	DBW 303	0.2	65.64	44610.00	12.11.22	15.04.23
KVK, Muzaffarnagar-II	Wheat	DBW 173	0.2	40.20	21610.00	Wheat	DBW 173	0.2	48.20	43110.00	16.12.22	19.04.23
KVK, Muzaffarnagar-II	Wheat	DBW 071	0.2	40.50	22115.00	Wheat	DBW 071	0.2	45.50	43790.00	29.12.22	26.04.23
KVK, Muzaffarnagar-II	Mustard	RH 725	0.2	18.90	17150.00	Mustard	RH 725	0.2	25.95	32500.00	29.10.22	24.03.23
KVK, Muzaffarnagar-II	Wheat	DBW 173	0.2	41.25	21840.00	Wheat	DBW 173	0.2	47.90	44110.00	16.12.22	22.04.23
KVK, Muzaffarnagar-II	Mustard	RH 725	0.2	18.75	17910.00	Mustard	RH 725	0.2	26.10	33115.00	10.10.22	15.03.23



## 2) Preliminary Soil Data of Natural Farming Field

Name of KVK	Soil data of Demonstrated/ KVK Plot	Soil Analysis				Micronutrients				Microbial Analysis				
		N (Kg/ha)	P (Kg/ha)	K (Kg/ha)	Organic Carbon (%age)	Ca (Kg/ha)	Mg (Kg/ha)	Zn (Kg/ha)	Others	Bacterial count (Nos.)	Fungi (Nos.)	Actinomycetes (Nos.)	Phosphorus Solubilizer (Nos.)	N Fixers (Nos.)
KVK, Muzaffarnagar-II	01 (Chemical)		14.0	120	0.37									
KVK, Muzaffarnagar-II	02 (Natural)		13.5	110	0.37									
KVK, Muzaffarnagar-II	03 (Organic)		13.5	120	0.37									

## 3) Details of Demonstrations Conducted under Natural Farming Project

S. No.	Name of KVK	Name of village	Name of farmer	Mobile no. of farmer	Area under demonstration on Natural Farming (ha)
1	KVK, Muzaffarnagar-II	Barwala	Aashish Kumar	7906684722	0.4
2	KVK, Muzaffarnagar-II	Barwala	Yogesh Kumar	9897856495	0.4
3	KVK, Muzaffarnagar-II	Bera Sadat	Rakesh Kumar	9897984518	0.4
4	KVK, Muzaffarnagar-II	Noonikhera	Devesh Arya	8077672368	0.4
5	KVK, Muzaffarnagar-II	Bhopa	Brijbeer Singh	9720860875	0.4
6	KVK, Muzaffarnagar-II	Sarai Rasulpur	Afzal	9084069735	0.4
7	KVK, Muzaffarnagar-II	Tissa	Niranjan	7417889849	0.4
8	KVK, Muzaffarnagar-II	Nagla Mubarik	Sharanveer	6398488788	0.4
9	KVK, Muzaffarnagar-II	Lishoda	Dheer Singh	9927025224	0.4

## 4) Information of Farmers already Practicing Natural Farming

Sl. No.	Name of the District	Name of the Farmers	No. of desi (indigenous) cows	Land holding (ha)	Crops Grown	No. of Years in Natural Farming	Area Covered under Natural Farming	Crops Grown under Natural Farming	Any significant achievements under natural farming
1	KVK, Muzaffarnagar-II	Yogesh Kumar	01	1.75	Sugarcane, Wheat, Mustard	06	1.2 ha	Sugarcane, Wheat, Mustard	Marketing of value added products like Sugarcane juice, kulfi, hebal tea, jaggery and jagger powder

2	KVK, Muzaffarnagar-II	Devesh Arya	03	3.20	Sugarcane, Wheat, Mustard	07	3.2 ha	Sugarcane + Potato, Beetroot and mustard as Intercrop	Marketing of value added products like jaggery and jagger powder
3	KVK, Muzaffarnagar-II	Rakesh Kumar	02	2.50	Sugarcane, Paddy, Wheat	05	1.5 ha	Sugarcane, Paddy, Wheat, Orchard, Pulses	Marketing of value added products like jaggery and jagger powder and pulses
4	KVK, Muzaffarnagar-II	Brijbeer Singh	04	1.25	Sugarcane, Wheat, Mustard	08	1.0 ha	Sugarcane, Wheat, Mustard, Paddy	Marketing of value added products like jaggery and jagger powder

### 5) Natural Farming Nodal officer & Associate Name

S.No.	Name of KVK	Name of Head/SMS	Discipline/Subject	Mobile No.
1	KVK, Muzaffarnagar-II	Dr. Surendra Singh, Officer Incharge	Agril. Extension	9319304168
2	KVK, Muzaffarnagar-II	Dr. J. K. Arya, Programme Asstt.	Horticulture / Nodal Officer	9412311554

### 6) Preliminary Soil Data of Natural Farming Field

Name of KVK	Soil data of Demonstrated /KVK Plot	Soil Analysis				Micronutrients				Microbial Analysis				
		N (Kg/ha)	P (Kg/ha)	K (Kg/ha)	Organic Carbon (%age)	Ca (Kg/ha)	Mg (Kg/ha)	Zn (Kg/ha)	Others	Bacterial count (Nos.)	Fungi (Nos.)	Actinomycetes (Nos.)	Phosphorus Solubilizer (Nos.)	N Fixers (Nos.)
KVK, Muzaffarnagar-II	01 (Chemical)		14.0	120	0.37									
KVK, Muzaffarnagar-II	02 (Natural)		13.5	110	0.37									
KVK, Muzaffarnagar-II	03 (Organic)		13.5	120	0.37									

**IV. Drone Project: Not Applicable**  
**V. DAMU Project: Not Applicable**

## VI. Training Programme

### Farmers' Training including sponsored training programmes (on campus)

Thematic area (May be specific to any given KVK)	Actual title of training conducted	No. of courses	Participants								
			Others			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>I Crop Production</b>											
Resource Conservation Technologies	Rain water harvesting	1	19	0	19	1	0	1	20	0	20
Integrated Farming	Integrated farming system	1	18	0	18	2	0	2	20	0	20
Crop diversification	Intercropping with sugarcane	1	18	0	18	2	0	2	20	0	20
Integrated crop management	Production cultivation of pulses in kharif	2	34	0	34	6	0	6	40	0	40
Integrated crop management	Cultivation of millets in natural farming	2	36	0	36	4	0	4	40	0	40
Integrated crop management	Production technology of mustard	1	18	0	18	2	0	2	20	0	20
Integrated crop management	Aphid control in mustard	1	18	0	18	2	0	2	20	0	20
<b>Total</b>		<b>9</b>	<b>161</b>	<b>0</b>	<b>161</b>	<b>19</b>	<b>0</b>	<b>19</b>	<b>180</b>	<b>0</b>	<b>180</b>
<b>II Horticulture</b>											
<b>a) Vegetable Crops</b>											
Production of low volume and high value crops	Vegetable production in low tunnel	1	18	0	18	2	0	2	20	0	20
<b>Total (a)</b>		<b>1</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>20</b>	<b>0</b>	<b>20</b>
<b>b) Fruits</b>											
Layout and Management of Orchards	Layout & establishment of orchard	1	20	0	20	0	0	0	20	0	20
<b>Total (b)</b>		<b>1</b>	<b>20</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>20</b>
<b>c) Ornamental Plants</b>											
Production technique	Production technique of Marigold	2	36	0	36	4	0	4	40	0	40
<b>Total (c)</b>		<b>2</b>	<b>36</b>	<b>0</b>	<b>36</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>40</b>	<b>0</b>	<b>40</b>
<b>G.Total (a+b+c)</b>		<b>4</b>	<b>74</b>	<b>0</b>	<b>74</b>	<b>6</b>	<b>0</b>	<b>6</b>	<b>80</b>	<b>0</b>	<b>80</b>
<b>III Agril. Engg.</b>											
Farm machinery and its maintenance	Maintenance & repair of zero seed drill	1	17	0	17	3	0	3	20	0	20
Installation and maintenance of	Installation and	2	30	0	30	10	0	10	40	0	40

micro irrigation systems	maintenance of drip irrigation systems										
Repair and maintenance of farm machinery and implements	Repair and maintenance of primary tillage machinery	2	24	0	24	16	0	16	40	0	40
<b>Total</b>		<b>5</b>	<b>71</b>	<b>0</b>	<b>71</b>	<b>29</b>	<b>0</b>	<b>29</b>	<b>100</b>	<b>0</b>	<b>100</b>
<b>IV Home Science/Women empowerment</b>											
Women and child care	Importance of balanced diet for children	1	0	12	12	0	08	08	0	20	20
<b>Total</b>		<b>1</b>	<b>0</b>	<b>12</b>	<b>12</b>	<b>0</b>	<b>08</b>	<b>08</b>	<b>0</b>	<b>20</b>	<b>20</b>
<b>V Fisheries</b>											
Carp breeding and hatchery management	Hatchery construction	1	10	08	18	01	01	02	11	09	20
Composite fish culture	Aquaculture pond construction	1	05	12	17	0	03	03	05	15	20
Other (Feed and disease management)	Balanced fish feed production techniques	1	05	13	18	01	01	02	06	14	20
<b>Total</b>		<b>3</b>	<b>20</b>	<b>33</b>	<b>53</b>	<b>02</b>	<b>05</b>	<b>07</b>	<b>22</b>	<b>38</b>	<b>60</b>
<b>VII Capacity Building and Group Dynamics</b>											
Group dynamics	Constitution of self help group & farmers club	2	36	0	36	4	0	4	40	0	40
<b>Total</b>		<b>2</b>	<b>36</b>	<b>0</b>	<b>36</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>40</b>	<b>0</b>	<b>40</b>
<b>GRAND TOTAL</b>		<b>24</b>	<b>362</b>	<b>45</b>	<b>407</b>	<b>60</b>	<b>13</b>	<b>73</b>	<b>422</b>	<b>58</b>	<b>480</b>



## Farmers' Training including sponsored training programmes (off campus)

Thematic area (May be specific to any given KVK)	Actual title of training conducted	No. of courses	Participants								
			Others			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>I Crop Production</b>											
Resource Conservation Technologies	Rain water harvesting	1	19	0	19	1	0	1	20	0	20
Integrated Farming	Integrated farming system	1	18	0	18	2	0	2	20	0	20
Crop diversification	Intercropping with sugarcane	1	18	0	18	2	0	2	20	0	20
Crop diversification	Cultivation of urd and moong as catch crop in kharif	1	18	0	18	2	0	2	20	0	20
Crop diversification	Intercropping of garlic & onion with sugarcane	2	34	0	34	6	0	6	40	0	40
Soil & water conservation	Water management in urd & moong	1	18	0	18	2	0	2	20	0	20
Integrated Weed management	IWM in Wheat	1	17	0	17	3	0	3	20	0	20
Integrated crop management	Production cultivation of pulses in kharif	2	34	0	34	6	0	6	40	0	40
Integrated crop management	Production cultivation of pulses in Rabi	2	36	0	36	4	0	4	40	0	40
Integrated crop management	Production technology of mustard	1	18	0	18	2	0	2	20	0	20
Integrated crop management	Aphid control in mustard	1	18	0	18	2	0	2	20	0	20
Integrated Nutrient management	INM in Sugarcane	1	17	0	17	3	0	3	20	0	20
Integrated Nutrient management	INM in Rice	1	18	0	18	2	0	2	20	0	20
<b>Total</b>		<b>16</b>	<b>283</b>	<b>0</b>	<b>283</b>	<b>37</b>	<b>0</b>	<b>37</b>	<b>320</b>	<b>0</b>	<b>320</b>
<b>II Horticulture</b>											
<b>a) Vegetable Crops</b>											
Off-season vegetables	Production of off season vegetables	1	20	0	20	0	0	0	20	0	20
Nursery raising	Virus free nursery raising of vegetables	1	20	0	20	0	0	0	20	0	20
Production technology	Improved production technique of Okra	2	40	0	40	0	0	0	40	0	40
Production technology	Improved production	1	20	0	20	0	0	0	20	0	20



	technique of hybrid capsicum										
Production technology	Improved production technique of Garlic	1	20	0	19	0	0	0	20	0	20
Production technology	Improved production technique of Onion	1	20	0	20	0	0	0	20	0	20
Production technology	Improved production technique of cucurbits on <i>machan</i>	1	19	0	19	1	0	1	20	0	20
<b>Total (a)</b>		<b>8</b>	<b>159</b>	<b>0</b>	<b>159</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>160</b>	<b>0</b>	<b>160</b>
<b>b) Fruits</b>											
Training and Pruning	Training and Pruning of fruit trees	1	20	0	20	0	0	0	20	0	20
Layout and Management of Orchards	Layout & establishment of orchard	1	18	0	18	2	0	2	20	0	20
Management of young plants/ orchards	Importance and application of mulching in fruits plant	2	37	0	37	3	0	3	40	0	40
<b>Total (b)</b>		<b>4</b>	<b>75</b>	<b>0</b>	<b>75</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>80</b>	<b>0</b>	<b>80</b>
<b>c) Ornamental Plants</b>											
Production technology	Production technique of commercial flower	1	18	0	18	2	0	2	20	0	20
<b>Total (c)</b>		<b>1</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>20</b>	<b>0</b>	<b>20</b>
<b>Total (a+b+c)</b>		<b>13</b>	<b>252</b>	<b>0</b>	<b>252</b>	<b>8</b>	<b>0</b>	<b>8</b>	<b>260</b>	<b>0</b>	<b>260</b>
<b>III Soil Health and Fertility Management</b>											
Soil fertility management	Vermi-compost production technology	2	34	0	34	6	0	6	40	0	40
<b>Total</b>		<b>2</b>	<b>34</b>	<b>0</b>	<b>34</b>	<b>6</b>	<b>0</b>	<b>6</b>	<b>40</b>	<b>0</b>	<b>40</b>
<b>IV Home Science/Women empowerment</b>											
Household food security by kitchen gardening and nutrition gardening	Importance of nutritional garden	1	10	03	13	02	05	07	12	08	20
Designing and development for high nutrient efficiency diet	Importance of seasonal vegetables and their nutritive	1	0	20	20	0	0	0	0	20	20

	values										
Gender mainstreaming through SHGs	Awareness about role of SHGs	1	0	20	20	0	0	0	0	20	20
Women empowerment	Women empowerment through entrepreneurship development	1	0	15	15	0	05	05	0	20	20
Women empowerment	Importance of women education	1	17	03	20	0	0	0	17	03	20
Location specific drudgery reduction technologies	Role of ergonomics during working condition	1	0	20	20	0	0	0	0	20	20
Women & child care	Role of iron in women's diet and its deficiency symptoms	1	0	17	17	0	03	03	0	20	20
Women & child care	Evaluation of nutritional deficiencies among children	1	0	16	16	0	04	04	0	20	20
Designing and development for high nutrient efficiency diet	Calcium & Vitamin B-12 deficiency : causes & preventions	2	18	16	34	02	04	06	20	20	40
Others (Health & hygiene)	Role environmental cleanliness and air born diseases	1	0	16	16	0	04	04	0	20	20
Others (Health & hygiene)	Significance of personnel hygiene	2	0	39	39	0	01	01	0	40	40
Others (Health & hygiene)	Significance of hygiene & sanitation in food service	1	10	10	20	0	0	0	10	10	20
<b>Total</b>		<b>14</b>	<b>55</b>	<b>195</b>	<b>250</b>	<b>4</b>	<b>26</b>	<b>30</b>	<b>59</b>	<b>221</b>	<b>280</b>
<b>V Agril. Engineering</b>											
Farm Machinery and its maintenance	Maintenance & repair of zero seed drill	5	70	0	70	30	0	30	100	0	100
Installation and maintenance of micro irrigation systems	Installation and maintenance of drip irrigation systems	2	34	0	34	6	0	6	40	0	40
Repair and maintenance of farm machinery and implements	Repair and maintenance of primary tillage machinery	5	68	0	68	32	0	32	100	0	100
<b>Total</b>		<b>12</b>	<b>172</b>	<b>0</b>	<b>172</b>	<b>68</b>	<b>0</b>	<b>68</b>	<b>240</b>	<b>0</b>	<b>240</b>
<b>VI Plant Protection</b>											
Integrated Pest	IPM in rabi pulses	1	18	0	18	2	0	2	20	0	20

Management											
Bio-control of pests and diseases	Application of trychocard in sugarcane to control the borers	2	35	0	35	5	0	5	40	0	40
<b>Total</b>		<b>3</b>	<b>53</b>	<b>0</b>	<b>53</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>60</b>	<b>0</b>	<b>60</b>
<b>VII Fisheries</b>											
Composite fish culture	Types of commercially important cultured fishes	1	07	11	18	0	2	2	07	13	20
Composite fish culture	Types of aquaculture practices	1	19	01	20	0	0	0	19	01	20
Composite fish culture	Carp culture technique	1	20	0	20	0	0	0	20	0	20
Composite fish culture	Aquaculture pond management	1	05	0	05	10	05	15	15	05	20
Carp breeding and hatchery management	Fish seed production	1	18	0	18	02	0	02	20	0	20
Breeding and culture of ornamental fishes	Ornamental fish culture	1	03	17	20	0	0	0	03	17	20
Fish processing and value addition	Various products of fish	1	19	0	19	01	0	01	20	0	20
Other (Government subsidy)	Government subsidies available for aquaculture	1	10	10	20	0	0	0	10	10	20
Other (Feed and disease management)	Fish feed management	1	19	0	19	01	0	01	20	0	20
Other (Feed and disease management)	Prophylactic and treatment measures of various fish diseases	1	17	0	17	03	0	03	20	0	20
Other (Feed and disease management)	Fish feed management	1	15	05	20	0	0	0	15	05	20
Other (Feed and disease management)	Treatment measures of various fish diseases	1	20	0	20	0	0	0	20	0	20
<b>Total</b>		<b>12</b>	<b>172</b>	<b>44</b>	<b>216</b>	<b>17</b>	<b>7</b>	<b>24</b>	<b>189</b>	<b>51</b>	<b>240</b>
<b>VIII Production of Inputs at site</b>											
Vermi-compost production	Preparation of vermi compost	1	18	0	18	2	0	2	20	0	20
<b>Total</b>		<b>1</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>20</b>	<b>0</b>	<b>20</b>
<b>IX Capacity Building</b>											
Group dynamics	Constitution of self help group & farmers club	2	36	0	36	4	0	4	40	0	40
Other (FPO	Promotion and	2	37	0	37	3	0	3	40	0	40



constitution)	constitution of FPO										
Other (ICT)	Application of ICT in agriculture	2	35	0	35	5	0	5	40	0	40
<b>Total</b>		<b>6</b>	<b>108</b>	<b>0</b>	<b>108</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>120</b>	<b>0</b>	<b>120</b>
<b>GRAND TOTAL</b>		<b>79</b>	<b>1147</b>	<b>239</b>	<b>1350</b>	<b>161</b>	<b>33</b>	<b>194</b>	<b>1308</b>	<b>272</b>	<b>1580</b>



#### Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

Thematic area (May be specific to any given KVK)	Actual title of training conducted	No. of courses	Participants								
			Others			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>I Crop Production</b>											
Resource Conservation Technologies	Rain water harvesting	2	38	0	38	8	0	8	40	0	40
Integrated Farming	Integrated farming system	2	36	0	36	4	0	4	40	0	40
Crop diversification	Intercropping with sugarcane	2	36	0	36	4	0	4	40	0	40
Crop diversification	Cultivation of urd and moong as catch crop in kharif	1	18	0	18	2	0	2	20	0	20
Crop diversification	Intercropping of garlic & onion with sugarcane	2	34	0	34	6	0	6	40	0	40
Soil & water conservation	Water management in urd & moong	1	18	0	18	2	0	2	20	0	20
Integrated Weed management	IWM in Wheat	1	17	0	17	3	0	3	20	0	20
Integrated crop management	Production cultivation of pulses in kharif	4	68	0	68	12	0	12	80	0	80

Integrated crop management	Production cultivation of pulses in Rabi	2	36	0	36	4	0	4	40	0	40
Integrated crop management	Production technology of mustard	2	36	0	36	4	0	4	40	0	40
Integrated crop management	Aphid control in mustard	2	36	0	36	4	0	4	40	0	40
Integrated crop management	Cultivation of millets in natural farming	2	36	0	36	4	0	4	40	0	40
Integrated Nutrient management	INM in Sugarcane	1	17	0	17	3	0	3	20	0	20
Integrated Nutrient management	INM in Rice	1	18	0	18	2	0	2	20	0	20
<b>Total</b>		<b>25</b>	<b>444</b>	<b>0</b>	<b>444</b>	<b>62</b>	<b>0</b>	<b>62</b>	<b>500</b>	<b>0</b>	<b>500</b>
<b>II Horticulture</b>											
<b>a) Vegetable Crops</b>											
Off-season vegetables	Production of off season vegetables	1	20	0	20	0	0	0	20	0	20
Nursery raising	Virus free nursery raising of vegetables	1	20	0	20	0	0	0	20	0	20
Production of low volume and high value crops	Vegetable production in low tunnel	1	18	0	18	2	0	2	20	0	20
Production technology	Improved production technique of Okra	2	40	0	40	0	0	0	40	0	40
Production technology	Improved production technique of hybrid capsicum	1	20	0	20	0	0	0	20	0	20
Production technology	Improved production technique of Garlic	1	19	0	19	1	0	1	20	0	20
Production technology	Improved production technique of Onion	1	20	0	20	0	0	0	20	0	20
Production technology	Improved production technique of cucurbits on <i>machan</i>	1	19	0	19	1	0	1	20	0	20
<b>Total (a)</b>		<b>9</b>	<b>176</b>	<b>0</b>	<b>176</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>180</b>	<b>0</b>	<b>180</b>
<b>b) Fruits</b>											
Training and Pruning	Training and Pruning of fruit trees	1	20	0	20	0	0	0	20	0	20
Layout and Management of Orchards	Layout & establishment of orchard	2	38	0	38	2	0	2	40	0	40

Management of young plants/orchards	Importance and application of mulching in fruits plant	2	37	0	37	3	0	3	40	0	40
<b>Total (b)</b>		<b>5</b>	<b>95</b>	<b>0</b>	<b>95</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>100</b>	<b>0</b>	<b>100</b>
<b>c) Ornamental Plants</b>											
Production technology	Production technique of commercial flower	1	18	0	18	2	0	2	20	0	20
Production technology	Production technique of marigold	2	36	0	36	4	0	4	40	0	40
<b>Total (c)</b>		<b>3</b>	<b>54</b>	<b>0</b>	<b>54</b>	<b>6</b>	<b>0</b>	<b>6</b>	<b>60</b>	<b>0</b>	<b>60</b>
<b>Total (a+b+c)</b>		<b>17</b>	<b>325</b>	<b>0</b>	<b>325</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>340</b>	<b>0</b>	<b>340</b>
<b>III Soil Health and Fertility Management</b>											
Soil fertility management	Vermi-compost production technology	2	34	0	34	6	0	6	40	0	40
<b>Total</b>		<b>2</b>	<b>34</b>	<b>0</b>	<b>34</b>	<b>6</b>	<b>0</b>	<b>6</b>	<b>40</b>	<b>0</b>	<b>40</b>
<b>IV Home Science/Women empowerment</b>											
Household food security by kitchen gardening and nutrition gardening	Importance of nutritional garden	1	10	03	13	02	05	07	12	08	20
Designing and development for high nutrient efficiency diet	Importance of seasonal vegetables and their nutritive values	1	0	20	20	0	0	0	0	20	20
Gender mainstreaming through SHGs	Awareness about role of SHGs	1	0	20	20	0	0	0	0	20	20
Women empowerment	Women empowerment through entrepreneurship development	1	0	15	15	0	05	05	0	20	20
Women empowerment	Importance of women education	1	17	03	20	0	0	0	17	03	20
Location specific drudgery reduction technologies	Role of ergonomics during working condition	1	0	20	20	0	0	0	0	20	20
Women & child care	Role of iron in women's diet and its deficiency symptoms	1	0	17	0	0	03	03	0	20	20

Women & child care	Evaluation of nutritional deficiencies among children	1	0	16	16	0	04	04	0	20	20
Women & child care	Importance of balanced diet for children	1	0	12	12	0	08	08	0	20	20
Designing and development for high nutrient efficiency diet	Calcium & Vitamin B-12 deficiency : causes & preventions	2	18	16	34	02	04	06	20	20	40
Others (Health & hygiene)	Role of environmental cleanliness and air born diseases	1	0	16	16	0	04	04	0	20	20
Others (Health & hygiene)	Significance of personnel hygiene	2	0	39	20	0	01	01	0	40	40
Others (Health & hygiene)	Significance of hygiene & sanitation in food service	1	10	10	20	0	0	0	10	10	20
<b>Total</b>		<b>15</b>	<b>55</b>	<b>207</b>	<b>226</b>	<b>4</b>	<b>34</b>	<b>38</b>	<b>59</b>	<b>241</b>	<b>300</b>
<b>V Agril. Engineering</b>											
Farm Machinery and its maintenance	Maintenance & repair of zero seed drill	6	87	0	87	33	0	33	120	0	120
Installation and maintenance of micro irrigation systems	Installation and maintenance of drip irrigation systems	4	64	0	64	16	0	16	80	0	80
Repair and maintenance of farm machinery and implements	Repair and maintenance of primary tillage machinery	7	92	0	92	48	0	48	140	0	140
<b>Total</b>		<b>17</b>	<b>243</b>	<b>0</b>	<b>243</b>	<b>97</b>	<b>0</b>	<b>97</b>	<b>340</b>	<b>0</b>	<b>340</b>
<b>VI Plant Protection</b>											
Integrated Pest Management	IPM in rabi pulses	1	18	0	18	2	0	2	20	0	20
Bio-control of pests and diseases	Application of trychocard in sugarcane to control the borers	2	35	0	35	5	0	5	40	0	40
<b>Total</b>		<b>3</b>	<b>53</b>	<b>0</b>	<b>53</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>60</b>	<b>0</b>	<b>60</b>
<b>VII Fisheries</b>											
Composite fish culture	Types of commercially important cultured fishes	1	07	11	18	0	2	2	07	13	20
Composite fish culture	Types of aquaculture practices	1	19	01	20	0	0	0	19	01	20
Composite fish culture	Aquaculture pond management	1	05	0	05	10	05	15	15	05	20



Composite fish culture	Aquaculture pond construction	1	05	12	17	0	03	03	05	15	20
Carp breeding and hatchery management	Fish seed production	1	18	0	18	02	0	02	20	0	20
Carp breeding and hatchery management	Hatchery construction	1	10	08	18	01	01	02	11	09	20
Composite fish culture	Carp culture technique	1	20	0	20	0	0	0	20	0	20
Breeding and culture of ornamental fishes	Ornamental fish culture	1	03	17	20	0	0	0	03	17	20
Fish processing and value addition	Various products of fish	1	19	0	19	01	0	01	20	0	20
Other (Government subsidy)	Government subsidies available for aquaculture	1	10	10	20	0	0	0	10	10	20
Other (Feed and disease management)	Fish feed management	1	19	0	19	01	0	01	20	0	20
Other (Feed and disease management)	Prophylactic and treatment measures of various fish diseases	1	17	0	17	03	0	03	20	0	20
Other (Feed and disease management)	Fish feed management	1	15	05	20	0	0	0	15	05	20
Other (Feed and disease management)	Treatment for measures of various fish diseases	1	20	0	20	0	0	0	20	0	20
Other (Feed and disease management)	Balanced fish feed production techniques	1	05	13	18	01	01	02	06	14	20
<b>Total</b>		<b>15</b>	<b>192</b>	<b>77</b>	<b>269</b>	<b>19</b>	<b>12</b>	<b>31</b>	<b>211</b>	<b>89</b>	<b>300</b>
<b>VIII Production of Inputs at site</b>											
Vermi-compost production	Preparation of vermi compost	1	18	0	18	2	0	2	20	0	20
<b>Total</b>		<b>1</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>20</b>	<b>0</b>	<b>20</b>
<b>IX Capacity Building</b>											
Group dynamics	Constitution of self help group & farmers club	4	72	0	72	08	0	08	80	0	80
Other (FPO constitution)	Promotion and constitution of FPO	2	37	0	37	03	0	03	40	0	40
Other (ICT)	Application of ICT in agriculture	2	35	0	35	05	0	05	40	0	40
<b>Total</b>		<b>8</b>	<b>144</b>	<b>0</b>	<b>144</b>	<b>16</b>	<b>0</b>	<b>16</b>	<b>160</b>	<b>0</b>	<b>160</b>
<b>GRAND TOTAL</b>		<b>103</b>	<b>1508</b>	<b>284</b>	<b>1756</b>	<b>228</b>	<b>46</b>	<b>274</b>	<b>1730</b>	<b>330</b>	<b>2060</b>

## Training for Rural Youths including sponsored training programmes (On campus)

Thematic area (May be specific to any given KVK)	Actual title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of horticultural crops	Nursery growing of horticultural plants for livelihood	1	10	0	10	0	0	0	10	0	10
Protected cultivation	Vegetable production in low tunnel and low cost poly house	1	10	0	10	0	0	0	10	0	10
Integrated farming	Integrated farming system	1	8	0	8	3	0	3	11	0	11
Seed production	Seed production of wheat & rice	1	10	0	10	0	0	0	10	0	10
Vermi-culture	Production technology of vermicompost, vermiwash and vermiculture	1	8	0	8	2	0	2	10	0	10
Rural Crafts	Entrepreneurship development through macramé art training	1	0	9	9	0	1	1	0	10	10
Ornamental fisheries	Aquarium construction and management	1	9	0	9	1	0	1	10	0	10
Fish feed management	Balanced fish feed production techniques	1	9	0	9	1	0	1	10	0	10
<b>TOTAL</b>		<b>8</b>	<b>64</b>	<b>9</b>	<b>73</b>	<b>7</b>	<b>1</b>	<b>8</b>	<b>71</b>	<b>10</b>	<b>81</b>

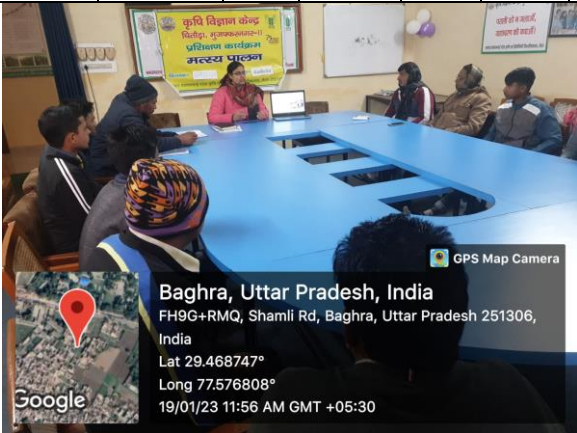


Muzaffarnagar, Uttar Pradesh, India  
Unnamed Road, Uttar Pradesh 251314, India  
Lat 29.357394°  
Long 77.802953°  
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Khertauli, Uttar Pradesh, India  
9QGW+27, Khertauli, Uttar Pradesh 251314, India  
Lat 29.360012°  
Long 77.795638°  
27/09/22 02:54 PM

## Training for Rural Youths including sponsored training programmes (OFF campus)

Thematic area (May be specific to any given KVK)	Actual title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Composite fish culture	Techniques of fish production	1	09	0	09	02	0	02	11	0	11



Baghra, Uttar Pradesh, India  
FH9G+RMQ, Shamli Rd, Baghra, Uttar Pradesh 251306, India  
Lat 29.468747°  
Long 77.576808°  
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## Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

Thematic area (May be specific to any given KVK)	Actual title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of horticultural crops	Nursery growing of horticultural plants for livelihood	1	10	0	10	0	0	0	10	0	10
Protected cultivation	Vegetable production in low tunnel and low cost poly house	1	10	0	10	0	0	0	10	0	10
Integrated farming	Integrated farming system	1	8	0	8	3	0	3	11	0	11
Seed production	Seed production of wheat & rice	1	10	0	10	0	0	0	10	0	10
Vermi-culture	Production technology of vermicompost, vermiwash and vermiculture	1	8	0	8	2	0	2	10	0	10
Rural Crafts	Entrepreneurship development through macramé art training	1	0	9	9	0	1	1	0	10	10
Ornamental fisheries	Aquarium construction and management	1	9	0	9	1	0	1	10	0	10
Fish feed management	Balanced fish feed production techniques	1	9	0	9	1	0	1	10	0	10
Composite fish culture	Techniques of fish production	1	09	0	09	02	0	02	11	0	11
<b>TOTAL</b>		<b>9</b>	<b>73</b>	<b>9</b>	<b>82</b>	<b>9</b>	<b>1</b>	<b>10</b>	<b>82</b>	<b>10</b>	<b>92</b>

**Training programmes for Extension Personnel including sponsored training programmes (on campus):**

Thematic area (May be specific to any given KVK)	Actual title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Designing and development for high nutrient efficiency diet	Importance of balanced diet	1	0	13	13	0	02	02	0	15	15
<b>TOTAL</b>		<b>1</b>	<b>0</b>	<b>13</b>	<b>13</b>	<b>0</b>	<b>02</b>	<b>02</b>	<b>0</b>	<b>15</b>	<b>15</b>


**Training programmes for Extension Personnel including sponsored training programmes (off campus):**

Thematic area (May be specific to any given KVK)	Actual title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Natural Farming	Natural Farming of horticultural crops	1	10	0	10	0	0	0	10	0	10
Capacity building for ICT application	Use of ICT in agriculture	2	30	0	30	0	0	0	30	0	30
Drip irrigation	Installation of drip irrigation system	1	15	0	15	0	0	0	15	0	15
Group dynamics	Constitution of self help group	1	15	0	15	0	0	0	15	0	15
Women & child care	Role of nutrition for lactating women	1	0	10	10	0	05	05	0	15	15
Composite fish culture	Pond management for fisheries production	1	05	01	06	0	0	0	05	01	06
<b>TOTAL</b>		<b>7</b>	<b>75</b>	<b>11</b>	<b>86</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>75</b>	<b>16</b>	<b>91</b>





**Training programmes for Extension Personnel including sponsored training programmes – CONSOLIDATED  
(On + Off campus)**

Thematic area (May be specific to any given KVK)	Actual title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Natural Farming	Natural Farming of horticultural crops	1	10	0	10	0	0	0	10	0	10
Capacity building for ICT application	Use of ICT in agriculture	2	30	0	30	0	0	0	30	0	30
Drip irrigation	Installation of drip irrigation system	1	15	0	15	0	0	0	15	0	15
Group dynamics	Constitution of self help group	1	15	0	15	0	0	0	15	0	15
Women & child care	Role of nutrition for lactating women	1	0	10	10	0	05	05	0	15	15
Designing and development for high nutrient efficiency diet	Importance of balanced diet	1	0	13	13	0	02	02	0	15	15
Composite fish culture	Pond management for fisheries production	1	05	01	06	0	0	0	05	01	06
<b>TOTAL</b>		<b>8</b>	<b>75</b>	<b>24</b>	<b>99</b>	<b>0</b>	<b>7</b>	<b>7</b>	<b>75</b>	<b>31</b>	<b>106</b>

**Sponsored training programmes :**

Thematic area (May be specific to any given KVK)	Actual title of training conducted	No. of Course s	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>Crop production and management</b>											
Farmer technical training (FTT)	Increasing production and productivity of crops	1	46	0	46	4	0	4	50	0	50
Farmer technical training (FTT)	Commercial production of vegetables	1	43	0	43	7	0	7	50	0	50

**Details of vocational training programmes carried out by KVKs for rural youth: Nil**

**VII. Extension Programmes**

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	706	853	52	905
Diagnostic visits	158	214	9	223
Field Day	7	224	0	224
Group discussions	59	671	29	700
Kisan Ghosthi	17	1845	48	1893
Film Show	0	0	0	0
Self -help groups	0	0	0	0

Kisan Mela	7	1109	82	1191
Exhibition	4	mass	mass	mass
Scientists' visit to farmers field	310	503	07	510
Plant/animal health camps	0	0	0	0
Farm Science Club	0	0	0	0
Ex-trainees Sammelan	0	0	0	0
Farmers' seminar/workshop	1	30	4	34
Method Demonstrations	10	300	15	315
Celebration of important days	7	683	13	696
Special day celebration	3	190	8	198
Exposure visits	6	297	0	297
Others (Awareness programme)	4	180	0	180
Others (Kharif Abhiyan 2023)	8	390	12	402
<b>Total</b>	<b>1307</b>	<b>7489</b>	<b>279</b>	<b>7768</b>

**Details of other extension programmes**

Particulars	Number	Photographs
Electronic Media (CD./DVD)	-	
Extension Literature	16	
News paper coverage	44	
Popular articles	01	
Radio Talks	12	
TV Talks	6	
Animal health camps (Number of animals treated)	-	
Others (pl. specify)	-	
<b>Total</b>	<b>79</b>	

**कृषि विज्ञान प्रशिक्षण का हुआ आयोजन**

● अनाजी संवत्सवार, कन्नौज  
गांव कम्बेड़ा में कृषि विज्ञान केंद्र के विभिन्न कार्यक्रमों के आयोजन में एक दिवसीय किसान प्रशिक्षण का आयोजन किया गया।  
गांव कम्बेड़ा में एक दिन के लिए किसानों को प्रशिक्षण देने के लिए एक कार्यक्रम आयोजित किया गया। इस कार्यक्रम में किसानों को विभिन्न कृषि विज्ञान केंद्र के विभिन्न कार्यक्रमों के आयोजन में एक दिवसीय किसान प्रशिक्षण का आयोजन किया गया।



**कृषि विज्ञान उद्यान वैज्ञानिकों का वरिष्ठता दिवस ने जानकारी दी**

वहीं उदरनिर्वाह के लिए किसानों को प्रशिक्षण देने के लिए एक कार्यक्रम आयोजित किया गया। इस कार्यक्रम में किसानों को विभिन्न कृषि विज्ञान केंद्र के विभिन्न कार्यक्रमों के आयोजन में एक दिवसीय किसान प्रशिक्षण का आयोजन किया गया।

वैज्ञानिकों का वरिष्ठता दिवस का आयोजन किया गया। इस कार्यक्रम में किसानों को विभिन्न कृषि विज्ञान केंद्र के विभिन्न कार्यक्रमों के आयोजन में एक दिवसीय किसान प्रशिक्षण का आयोजन किया गया।

**गांव कम्बेड़ा में कृषि विज्ञानियों ने किसानों से किया सवाद, कीट-पतंगों से बचाव की भी दी जानकारी**

गांव कम्बेड़ा में कृषि विज्ञानियों ने किसानों से किया सवाद, कीट-पतंगों से बचाव की भी दी जानकारी। इस कार्यक्रम में किसानों को विभिन्न कृषि विज्ञान केंद्र के विभिन्न कार्यक्रमों के आयोजन में एक दिवसीय किसान प्रशिक्षण का आयोजन किया गया।



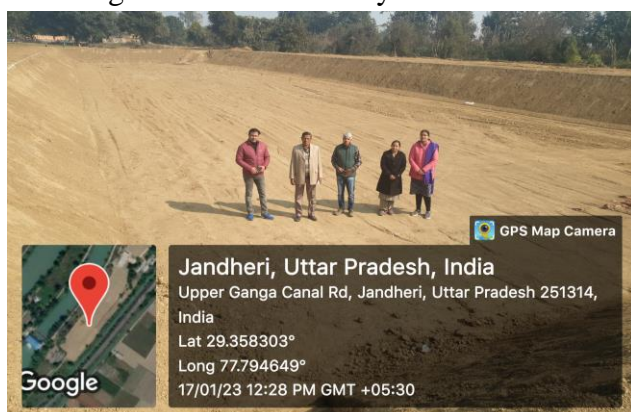
कृषि विज्ञान केंद्र के विभिन्न कार्यक्रमों के आयोजन में एक दिवसीय किसान प्रशिक्षण का आयोजन किया गया। इस कार्यक्रम में किसानों को विभिन्न कृषि विज्ञान केंद्र के विभिन्न कार्यक्रमों के आयोजन में एक दिवसीय किसान प्रशिक्षण का आयोजन किया गया।

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	
	Text only	845		26	18	34	21	944
	Voice only	-	-	-	-	-	-	-
	Voice & Text both	-	-	-	-	-	-	-
	<b>Total Messages</b>	<b>845</b>		<b>26</b>	<b>18</b>	<b>34</b>	<b>21</b>	<b>944</b>
	<b>Total farmers Benefitted</b>	<b>2500</b>						<b>2500</b>

## Project run at KVK, Muzaffarnagar-II

### I. Fisheries project entitled "Demonstration and training unit on aquaculture farming practices for the individual/farmers of Muzaffarnagar district in Uttar Pradesh".

- Starting Year: **2022-23**
- Area : **5820 m<sup>2</sup>**
- Pond construction complete as on **31-03-2023**
- Electricity connection complete on **21-05-2023**
- Stocking : **23-05-2023**
- Feeding process: **continue**
- Complete I<sup>st</sup> cycle after 9 to 10 months
- Fish breed- Rohu, Katla, Nain, Silver carp, Grass carp and common carp
- Budget release during 2022-23 with amount Rs. 53.32 Lakh
- Budget utilized in 2022-23 with amount Rs. 36.66 Lakh
- Budget revalidate in this year with amount Rs. 16.66 Lakh



### II. NBB Funded Project entitled "Establishment of mini honey testing laboratory and demonstration unit of honey bees"

- Establishment of Apiary (*Apis mellifera*) : **20 Boxes**
- Demonstration on Marigold : **4.0 ha**
- Demonstration on Peach & Plum : **2.0 ha**
- 07 days training on honey bee
- Rs. 15.75 Lakh expenditure incurred against: 42.77 Lakh in the F.Y. 2022-23





## Progress report of Shri Ann Progress (Jan. to May, 2023)

S.No.	Programme	Details	Date	Participants
1	Lectured delivered	Delivered lectures on importance of consuming millets in diet and ways to include millets in our diet at Kisan mela and Ghosthi organized at block and KVK level	-	2000 (farmers and farm women)



2	Published literature	Pamphlet providing important information on millets was prepared and printed its copies for farmers information.	Feb 2023	-
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3	Lecture delivered in Kharif abhiyaan	Delivered lecture on importance of consuming millets in diet and ways to include millets in our diet and distributed pamphlets for the information of farmers	23 <sup>rd</sup> Feb 2023	50 (Farmers and farm women)
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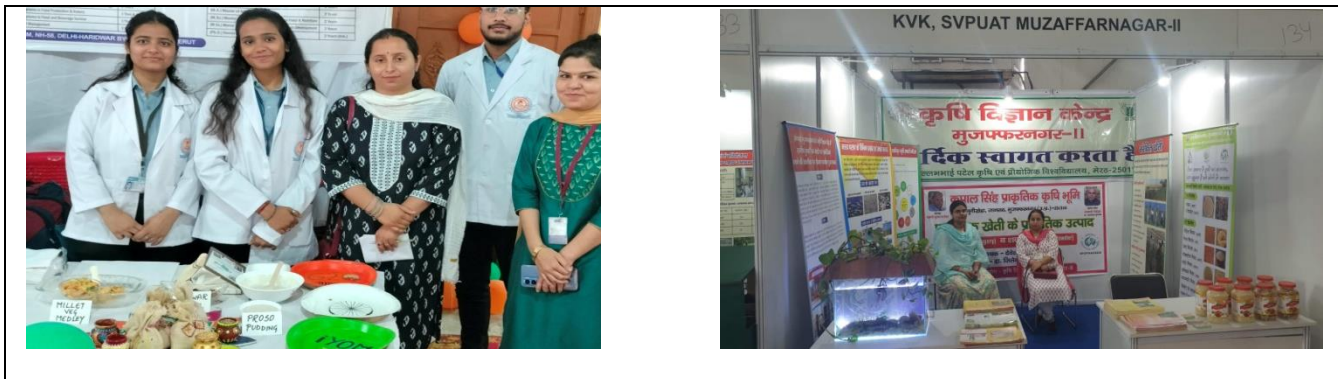
Jandheri, Uttar Pradesh, India  
8QWX+HVG, Jandheri, Uttar Pradesh 251314, India  
Lat 29.346447°  
Long 77.79961°  
23/05/23 01:47 PM GMT +05:30

Jandheri, Uttar Pradesh, India  
8QWX+HVG, Jandheri, Uttar Pradesh 251314, India  
Lat 29.346394°  
Long 77.799567°  
23/05/23 01:48 PM GMT +05:30



4	Awareness programme on millets	Delivered a lecture on health benefits of consuming millets in diet at Lalpur Rahdava village, Jansath block	27 <sup>th</sup> Feb 2023	50 (farmers and farm women)
				
5	Mahila shashaktikaran hetu hunar se rojgar se rojgar Programme	Participated in organizing the programme and exhibited various products made from millets (Bajra chaat, samak ke chawal ki kheer and ragi idli) in the line kitchen stall.	19 <sup>th</sup> March 2023	1000 (farm women, university and KVK staff)
				
6	“Eat right millet mela” at CCS University Meerut	Participated in “Eat right millet mela” at CCS University Meerut as resource person and also member of judgement committee for various contests i.e. recipe contest, rangoli on millets etc.	31 March 2023	1000 (College students, teachers and dignitaries from different departments of Meerut jurisdiction)
				
7	Pashu Pardarshani Mela (Organised at Numaish ground Muzaffarnagar)	Display of millets as sample, distribution of subject literature i.e. pamphlets and spread awareness about millets	06-07, April, 2023	5000 (College students, Farmers and farm women)





8	Awareness programme on millets	Awareness drive on millets was conducted at Ahmadgarh village on demand of farmers.	12 April, 2023	20 (Farmers and farm women)
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9	Awareness programme on millets	Farmers were made aware about the importance of millets in our day-to-day life, their nutritive value and how millets are playing a crucial role in disease control.	09 May, 2023	20 (Farmers and farm women)
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10	Magazine publication	Article on millets was published in fasal kranti magazine for the month of May	May, 2023	-
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<p><b>खेती-बाड़ी</b></p> <p><b>मिलेट क्या है और इसके सेवन से मिलने वाले स्वास्थ्य लाभ</b></p> <ol style="list-style-type: none"> <li>1. Fasal (Millets) (खेती)</li> <li>2. Lada (Millets) (खेती)</li> <li>3. Kankana (Millets) (खेती)</li> <li>4. Kankana (Millets) (खेती)</li> <li>5. Kankana (Millets) (खेती)</li> </ol>	<p>मई 2023 की फसल क्रांति पत्रिका में 'मिलेट क्या है और इसके सेवन से मिलने वाले स्वास्थ्य लाभ' नामक लेख प्रकाशित किया गया है।</p> <p>मिलेट एक पौष्टिक अनाज है जो स्वास्थ्य के लिए बहुत फायदेमंद है। इसमें विभिन्न प्रकार के मिश्रणों का उपयोग किया जा सकता है।</p> <p>मिलेट का सेवन करने से स्वास्थ्य में सुधार आता है। यह पेट को स्वस्थ रखता है और रक्तचाप को नियंत्रित करता है।</p> <p>मिलेट का उपयोग करके अनेक प्रकार के व्यंजन बनाए जा सकते हैं। यह एक स्वस्थ और स्वादु अनाज है।</p> <p>मिलेट का सेवन करने से स्वास्थ्य में सुधार आता है। यह पेट को स्वस्थ रखता है और रक्तचाप को नियंत्रित करता है।</p> <p>मिलेट का उपयोग करके अनेक प्रकार के व्यंजन बनाए जा सकते हैं। यह एक स्वस्थ और स्वादु अनाज है।</p>
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11	Delivered lecture on importance of millets	Lecture was delivered on importance of millets at college of PHT&FP, SVPUAT, Meerut during one week value added course	16 May, 2023	40
				

### FPO:

A FPO namely “Vallabh Krishak Utapadak Sangthan Evam Audyanik Vipnan Sahkari Samiti Limited, Shikhera, Jansath” was constituted promoted by KVK, Muzaffarnagar-II.

Registration No. : 1020 (dated 03-10-2022)

No. of shareholders : 300



Share holding money : 3.0 Lakhs

Equity grant received: 3.0 Lakhs

Proposed business plan: Organic jaggery production and organic vegetable production



### Other Special Programme of the Centre

S.N.	Programme	Date	Beneficiaries	Photographs
1	Virtual inauguration of administrative building of KVK MZN-II	03.01.2022	80	
2	Hands on training	21 -24.02 2022	20	



3	CRM Kisan Mela	21.03.2022	306	
4	Farmers Technical Training	23-25.03.2022	50	
5	Farmers Technical Training	28-30.03.2022	50	
6	Krishak Bhagidari Prathmikta Hamari	26.04.2022	246	
7	Honourable Governor Visit and Exhibition on natural Farming products	11.05.2022	200	
8	Inauguration of Jaggery Unit	11.05.2022	200	



9	National Level campaign on "Efficient use of fertilizers including nano fertilizers-	21.06.2022	36	
10	Celebration of International Yoga Day	21.06.2022	22	
11	Vriksharopan Abhiyaan	05.07.2022	15	
12	Celebration of ICAR Foundation Day	16.07.2022	52	
13	Celebration of Azadi ka amrit Mahotsav	15.08.2022	75	
14	Distribution of fruit plants during Swatantrata saptah	15.08.2022	75	

15	International millets conference programme	18.03.2023	42	 <p>GPS Map Camera Khertauli, Uttar Pradesh, India 9Q6W+27, Khertauli, Uttar Pradesh 251314, India Lat 29.360106° Long 77.795717° 18/03/23 01:03 PM GMT +05:30</p>
16	Hunnar se rojgar	19.03.2023	mass	
17	Krishi Pardarshni at Muzaffarnagar	31.03.2023 to 02.04.2023	mass	 <p>GPS Map Camera Muzaffarnagar, Uttar Pradesh, India 36, Railway Rd, Shiv Chowk, Civil Lines South, Muzaffarnagar, Uttar Pradesh 251002, India Lat 29.466439° Long 77.706778° 02/04/23 02:15 PM GMT +05:30</p>
18	Pashu pardarshani and kisan mela at Numais ground, Muzaffarnagar	6-7.04.2023	mass	 <p>GPS Map Camera Khertauli, Uttar Pradesh, India 9Q6W+27, Khertauli, Uttar Pradesh 251314, India Lat 29.36002° Long 77.795726° 07/04/23 11:44 AM GMT +05:30</p>
19	“Man ki baat by Hon’ble PM” live telecast programme	30.04.2023	56	 <p>GPS Map Camera Khertauli, Uttar Pradesh, India 9Q6W+27, Khertauli, Uttar Pradesh 251314, India Lat 29.360032° Long 77.795599° 30/04/23 11:08 AM GMT +05:30</p>



## VIII. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS: NIL

### IX. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs: NIL

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Vegetable seedlings	Onion	NHRDF Red-4	-	2500		
	Onion	Bhima Shakti	-	2500		
	Cabbage	-	Ankur Manas	2000		
	cabbage	Chinese cabbage	-	10		
	cabbage	Red cabbage	-	10		
	Tomato	-	Prestige	5000		
	Lettuce	Romaine (long)	-	1000		
	Lettuce	Icerberg	-	250		
	Lettuce	Red	-	250		
	Artichowk	-	-	05		
	Ornamental plants	Calendula	-	-	2500	
Annual chrysanthemum		-	-	2200		
Sweet william		-	-	1500		
Sweet alyssum		-	-	300		
Antirrhinum		-	-	1500		
Ice plant		-	-	500		
Dahlia single		-	-	550		
<b>Total</b>				<b>22575</b>		



**Note:** Seedlings of vegetables would be distributed to the farmers in the month January,2023.

Production of Bio-Products: NIL

Table: Production of livestock materials NIL

**X. DETAILS OF SOIL, WATER AND PLANT ANALYSIS: N.A.****XI. SCIENTIFIC ADVISORY COMMITTEE**

Name of KVK	Number of SACs conducted	Date of SAC
KVK, Muzaffarnagar-II	02	10-01-2022 & 31-11-2022

**XII. NEWSLETTER/MAGAZINE: NIL**

Name of News letter/Magazine	No. of Copies printed for distribution

**XIII. PUBLICATIONS**

Category	Number
Books	-
Technical bulletins	02
Research Paper	-
Lead Papers	-
Book Chapters	01
Popular Articles	01
Newsletters	-
Technical reports	13
Others (pl. specify)	28

**XIV. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM: N.A.****XV. INTERVENTIONS ON DISASTER MANAGEMENT/UNSEASONAL RAINFALL/HAILSTORM/COLD WAVES ETC: N.A.****XVI. DETAILS ON HRD ACTIVITIES****A. HRD activities organized in identified areas for KVK staff by the Directorate of Extension**

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
SVPUAT, MEERUT	Two days HRD training	4	25	20
SVPUAT, MEERUT	Trg. On natural farming	1	25	20
<b>Total</b>		<b>5</b>	<b>50</b>	<b>40</b>

**B. HRD activities organized in identified areas for KVK staff by Zonal Project Directorate**

Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
Training on CMS portal handling	1	20	20
<b>Total</b>	<b>1</b>	<b>20</b>	<b>20</b>



**XIV. CASE STUDIES (CASE STUDIES MAY BE GIVEN IN DETAIL AS PER THE FOLLOWING FORMAT)**  
*Each Zone should propose a minimum of three case studies with good action photographs (with captions on the backside of the hard copy of the photos) on the following topics*

### Success Story: 1

#### Name of the KVK Chittoda, Muzaffarnagar -II

**TITLE-** Rural youth training on Aquarium construction gaining popularity in Muzaffarnagar

**Introduction-** Mr. Vikrant, village Nangla Kabir, Block Jansath, a 22 year school dropout farmer was selected for the rural youth training on aquarium construction. He was originally involved in farming.

**KVK intervention-** Provided rural youth entrepreneurial training about all the steps involved in aquarium construction and sale. The economics of the aquarium construction and the ways and methods to save maximum on the sale was demonstrated to the trainees.

**Output-** Mr. Vikrant got trained in aquarium construction and started his business for the aquarium construction and sale to the nearby areas. He got two big orders for which his initial input was Rs. 2000 and got an estimated profit of Rs. 7000. Later, he participated in a talent competition of the Khatauli sugar mill and received a prize of Rs. 5100 for his aquarium construction.

**Outcome-** Based upon his Aquarium construction talent he was awarded a permanent job in the Khatauli sugar mill at a monthly wage of Rs. 14000. He is currently the bread bringer for his family and is very satisfied and happy with his new skill.

**Impact-** The rural youth training has provided a great impact on the life of Mr. Vikrant and his family members. He has started his own business and is now employed based upon his excellent learning skill. This training has helped him by providing livelihood and an enthusiasm to learn and expand his business enterprise. Now he is one of the active participants of the KVK activities and shows keen interest to learn new things. Success of Mr. Vikrant has paved way for other young farmers and self help groups to take up aquarium construction as a business idea.



Director Extension, SVPUAT, Meerut distributing training certificate after successful completion of training

## Success Story: 2

Name of the KVK Chittoda, Muzaffarnagar -II

### Cow dung products: A source of income for rural women

<b>Farmer Name:</b>	<b>Smt. Aarzo Siwach</b>
<b>Village :</b>	<b>Nangla Mhasi</b>
<b>Block :</b>	<b>Jansath</b>
<b>District :</b>	<b>Muzaffarnagar</b>
<b>Mobile :</b>	<b>9760402502</b>
<b>Cultivation Area :</b>	<b>2.67 ha</b>
<b>No. of animals :</b>	<b>09 cow</b>



**Introduction** : The utility of cattle dung besides producing the massive vermi compost manures has now been much diversified while creating the different varieties of useful products. Ahead of the festive seasons, women, who run the Self Help Group (SHGs), have got the orders to supply lakhs of eco-friendly Diya (Earthen Lamps) besides some other utility products made out of cow dung to the different places.

**KVK intervention** : Krishi Vigyan Kendra, Chitoda, Muzaffarnagar-II promotes the cow dung products with an aim to enhance the income of rural farm women. KVK also motivates farm women through training and advisory for cow dung products.

**Output** : The SHG is gaining income of approximately 1 lakh per month.

**Products** : Swadeshi organic dhoop  
Swadeshi organic mini hawan kund  
Swadeshi ecofriendly diyas  
Swadeshi organic hawan samagri  
Swadeshi hawan upley  
Swadeshi organic puja batti  
Swadeshi organic hawan samidha

**Achievements** The group got order from Ram mandir Ayodhya and has supplied 900000 ecofriendly diyas to Ayodhya. These diyas are ecofriendly as they easily get dissolved in water.

**Impact** : The SHG is using cow dung to produce various organic products which are very much in demand. Moreover cow dung is easily available and the products are ecofriendly.





### Success Story: 3

Name of the KVK Chittoda, Muzaffarnagar -II

Sugarcane On- Wheels: A new innovative approach to Natural Farming

#### 1. Farmer name: Yogesh Kumar

- Address: Village Barwala, Block Baghra, Muzaffarnagar
- Mobile: 9897856495
- Total agriculture land: 4.5 acre
- Crops: Sugarcane, Mustard, Wheat, Fodder crop, Paddy
- Number of animals: 2
- Number of desi cows: 2
- Area under natural farming: 4.5 acre



#### 2. Area/ Field of success:

Crop production under natural farming



#### 3. Expenditure/Income details of past two years:

S.No.	Year	Crop/ Product	Production	Expenditure (Rs)	Income (Rs)	Net profit (Rs)
1.	2021-22	Jaggery	32.5 quintal/acre	81,500	2,92,500	2,11,000
2.	2022-23	Jaggery	35 quintal/acre	83,400	3,50,000	2,66,600

#### 4. Publicity of success story: Newspaper cuttings and media coverage

गन्ने का अनोखा बिजनेस  
गन्ने की कुल्फी से आय कई गुना

गन्ने की कुल्फी से आय कई गुना, किसान की चलती फिरती दुकान // organic ganne ki kulfi//...

In this video we are going to talk about young youtube.com

[https://youtu.be/m85aD\\_Xvj6Q](https://youtu.be/m85aD_Xvj6Q) 16:40

गन्ने के जूस और चुस्की का कमाल, सेहत भी कमाई भी | Organic Sugarcane ऐसा आउटलेट नहीं दे...  
गन्ने के जूस और चुस्की का कमाल, सेहत भी कमाई भी | youtube.com

<https://youtu.be/FATtqAid4bg> 16:40



5. Special achievements:

1. First prize in sugarcane and imli chutney in Akhil Bhartiya kisan mela and Krishi udyog pradarshani, SVPUAT, Meerut
2. Appreciation certificate in “Laghu Udyog va Rojgar sarjan”
3. IARI innovative farmer award in Pusa Krishi Vigyan Mela, 9-11 march 2022



6. Impact:

Mr. Yogesh Kumar, a resident of Barwala village is an agriculture graduate. For the year 2016 - 18, he has served KVK as a young professional – I (YP-1) in the project entitled “Efficient use of water in Sugarcane based farming system in Muzaffarnagar District”. By the end of the project in the year 2018, he was again left unemployed. Due to the extreme pressure of unemployment, Mr. Yogesh thought of venturing into his own farming system with a new approach towards income generation. He had already started natural farming from the year 2016, but had less production in the starting years. Once he was left unemployed in the year 2018, he undertook the advice of KVK scientists and started the marketing of jaggery and jaggery powder. By pursuing this approach, he received an over whelming response and thus he developed much more interest in natural farming. He also started producing sugarcane vinegar by the year of 2020. He started producing sugarcane chutney by the end of 2021. Thus, by adopting such methods, he started receiving a good income through natural farming.



Thereafter, Mr. Yogesh underwent a training entitled “Out Scaling of Natural Farming Project” in Krishi Vigyan Kendra, Muzaffarnagar-II. He received various innovative ideas such as production of sugarcane juice, sugarcane herbal tea, sugarcane ice candy and cow milk infused sugarcane Kulfi. He then moved forward and started a new business venture of Sugarcane products On – Wheels. Director Extension, SVPUAT Meerut inaugurated the Business On-Wheels on 23 February, 2023 at Krishi Vigyan Kendra, Muzaffarnagar-II. On the very first day he successfully managed a sale of Rs. 4500. Thereafter, he started selling his products, on-wheels in the Muzaffarnagar district. On 19<sup>th</sup> march, 2023 a Hunar hart was organized in SVPUAT, Meerut, in which Mr. Yogesh presented his products in front of our respected Governor of Uttar Pradesh, Honorable Mrs. Anandiben Patel. On that auspicious day, he managed a sale of Rs. 6500 from which he received a profit of Rs. 3800. He also received an opportunity to showcase his new venture in “Pashu Pradarshani and Kisan Mela”, 6-7 April, 2023, in which he successfully made a sale of Rs. 15,000 per day from which he had a profit of about Rs. 9000. Along with this huge success, he has travelled a long way from the phase of unemployment to now providing employment to three other labors of his village. His per day source of income is through the Sugarcane products On – Wheels in the Muzaffarnagar district with an approximate sale of Rs. 6,000 along with the profit margin of around Rs. 2,500.

### Success Story: 4

Name of the KVK: KVK, Chittoda, Muzaffarnagar -II

### Intercropping for enriching soil health and farm income

**Farmer name: Ankit Baniwal**

**Village: Nagala Mubarik**

**Block: Jansath**

**Distt: Muzaffarnagar**

**Mob. No. 8077552586**



### Income and soil health security

**Introduction** : Intercropping of crop is a viable option to improve farmer’s income as well as soil health with lesser cost of cultivation. So, Sugarcane + Lobia is an important intercropping system which is really beneficial to the farmers.

**KVK intervention** : Krishi Vigyan Kendra, Chittora promotes Intercropping of sugarcane + Lobia with an aim of higher income and improves soil health security. KVK also motivates farmer through trainings and demonstrations at farmer’s field.

Particulars	Yield (q/acre)	Gross Cost (Rs/acre)	Gross Return (Rs/acre)	Net Return (Rs/acre)	B:C Ratio
Improved practice (Intercropping of sugarcane + Lobia)	600	60000	220000	160000	2.66
Existing practice (sole sugarcane)	520	56000	182000	126000	2.25

**Outcome** : The highest sugarcane yield (600q/acre) was obtained with sugarcane + Lobia intercropping as compared to sole crop of sugarcane (540q/acre). It significantly showed that net return and B: C ratio of sugarcane + Lobia is higher than sole crop of sugarcane.

**Impact** : Intercropping of sugarcane + Lobia significantly enhanced the farmer income and also improved soil health due to added organic matter and root exudation of lobia. It showed that almost 21% more net return was obtained with Intercropping of sugarcane + Lobia as compared to sole crop of sugarcane.



Photo 1& 2 of intercropping of sugarcane + Lobia

## XIX Achievement of Special programmes

- 1) Achievement of skill development training funded by DAC&FW: Nil
- 2) Achievements under Crop Residue Management (CRM) Project by KVKs

### a) CRM Machinery procured by KVKs: Nil

S. No.	Name of the Machine/ Equipment	No. of machines procured
1	Happy Seeder	-
2	Reversible M.B. Plough	-
3	Paddy Straw Chopper/ Shredder / Mulcher	-
4	Zero Till Drill	-
5	Rotavator	-
6	Tractor	-
<b>Total</b>		<b>-</b>

### b) IEC activities organized under CRM Project by KVKs

S. No.	Name of IEC activity	No. of activities	No. of Participants
1.	Kisan Melas organized	2	600
2.	Awareness programmes conducted at Village Panchayat/ Block/ District Level	8	944
3.	Mobilization of schools and colleges through essay completion, painting, debate etc.	5	745
4.	Demonstration conducted (ha)	50.0 ha	125
5.	Training Programmes conducted	4	150
6.	Exposure visits organized	2	100
7.	Field /harvest days organized	3	150
<b>Total</b>		<b>24</b>	<b>2814</b>

**b) Other IEC activities organized under CRM Project by KVKs**

S. No.	Name of IEC activity	No. of activities
1.	Advertisement in Print media	01
2.	Column / Articles in newspaper and magazines etc.	02
3.	Hoarding fixed (at Mandi/ Road side/Market/ Schools/ Petrol pump/ Panchayat etc.)	-
4.	Poster/Banner placed	-
5.	Publicity material - leaflets/ pamphlets etc. distributed	11000
6.	TV programmes/ panel discussions Doordarshan/ DD-Kisan and other private channels	09
7.	Wall writing	-
<b>Total</b>		<b>11012</b>

3) Achievement of TSP (Tribal Sub Plan) : N.A.

4) Achievement of KSHAMTA (Knowledge Systems And Home Based Agricultural Management in Tribal Areas) : N.A.

5) Achievements of SCSP KVKs : N.A.

6) Achievement under IFS KVKs : N.A.

7) Achievements under Mera Gaon Mera Gaurav (MGMG) project : N.A.

8) Achievements of Farmers FIRST programme: N.A.

9) Activities performed under NARI programme

**Table-7.1: Details of activities performed under NARI programme**

Nutritional Garden		Bio-fortified crops		Value addition		Training programmes		Extension activities	
No of Establishes	No. of farmers/beneficiaries	No of activity	No. of farmers/beneficiaries	No of activity	No. of farmers/beneficiaries	No of activity	No. of farmers/beneficiaries	No of activity	No. of farmers/beneficiaries
16	16	-	-	-	-	4	82	10	350

**Table-7.2: Details of Bio-Fortified Crops used for nutritional security under NARI programme: Nil**

10) Achievements of Soil, water, plant and manure samples analyzed by KVKs and soil health cards issued : N.A.

11) Achievements under NICRA Project : N.A.

12) Achievements under ARYA Project: N.A.



### 11) Achievements under Pulses Seed Hub programme: N.A.

### 12) Achievements under Swachhata Abhiyan Mission

S.No.	Items	No. of Programmes	No. of persons participated
1	Toilet maintenance	2	12
2	Road, drain cleaning	2	11
3	Garbage disposal	2	16
4	Door to door awareness	24	96
5	Awareness campaign	2	30
6	Nookkad Drama	-	-
7	School Drama	-	-
8	School rally	-	-
9	Writing painting slogans	-	-
10	Composting	2	30
11	Other	-	-

### 13) Achievements under Aspirational District Scheme: Not Applicable

### 14) Awards

S.No.	Name of Award received	Name of KVK/farmer	Year of Award	Date on which award received
1	Progressive Farmer Award for innovating farming practices	Sh. Devesh Arya, Village- Nooni Kheda, Block Jansath, Muzaffarnagar	2022	05-08-2022
2	SRDA Gold Medal Award-2021	Dr. Yesh Pal Singh, Asstt. Professor (Horticulture)	2022	09-10-2022



*Note: Please also mention name of farmer who received the award.*

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