ANNUAL REPORT (Jan to August, 2022) –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	19	349	31	380
Rural youths	03	36	0	36
Extension functionaries	03	40	0	40
Sponsored Training	0	0	0	0
Vocational Training	0	0	0	0
Total	**25**	**425**	**31**	**456**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	30	14.91	-
Pulses	30	10.00	-
Cereals	41	13.60	-
Vegetables	20	0.40	-
Other crops	100	44.00	-
Hybrid crops	0	0	-
Total	**221**	**82.91**	-
Livestock & Fisheries	0	0	-
Other enterprises	0	0	-
Total	0	0	-
Grand Total	**221**	**82.91**	-

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	05	18	18
Livestock	-	-	-
Various enterprises	-	-	-
Total	05	18	18
Technology Refined			
Crops	-	-	-
Livestock	-	-	-
Various enterprises	-	-	-
Total	-	-	-
Grand Total	**05**	**18**	**18**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	278	4649
Other extension activities	32	mass
Total	**310**	**4649**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Awar e-ness	Other enterprise	Total
	Text only	68	-	4	8	12	6	98
	Voice only	-	-	-	-	-	-	-
	Voice & Text both	-	-	-	-	-	-	-
	Total Messages	68	-	4	8	12	6	98
	Total farmers Benefitted	**400**	**-**	**55**	**12**	**83**	**19**	**569**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	-	-
Planting material (No.)	27000	Distributed to farmers
Bio-Products (kg)	-	-
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	-	-
Total	**-**	**-**

8. HRD and Publications

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

KRISHI VIGYAN KENDRA, MUZAFFARNAGAR-II

1. General Information about the KVK

1.1. Name and address of the KVK

Address	Telephone		E-Mail	Website
	Office	FAX		
KRISHI VIGYAN KENDRA, CHITTODA, DISTT.- MUZAFFARNAGAR (U.P.) PIN- 251314	09412311560		kvkmuzaffarnagar02 @gmail.com	muzaffarnagar2.kvk4.in

1.2.a. Name and address of the host organization

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

1.2.b. Status of KVK website : **Developed : muzaffarnagar2.kvk4.in**

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

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

1.3. Name of the Head :

Name	Telephone/ Contact		
	Office	Mobile	E-Mail
Dr. Prabha Shankar Tiwari	-	09412311560	Kvkmuzaffarnagar02@gmail.com

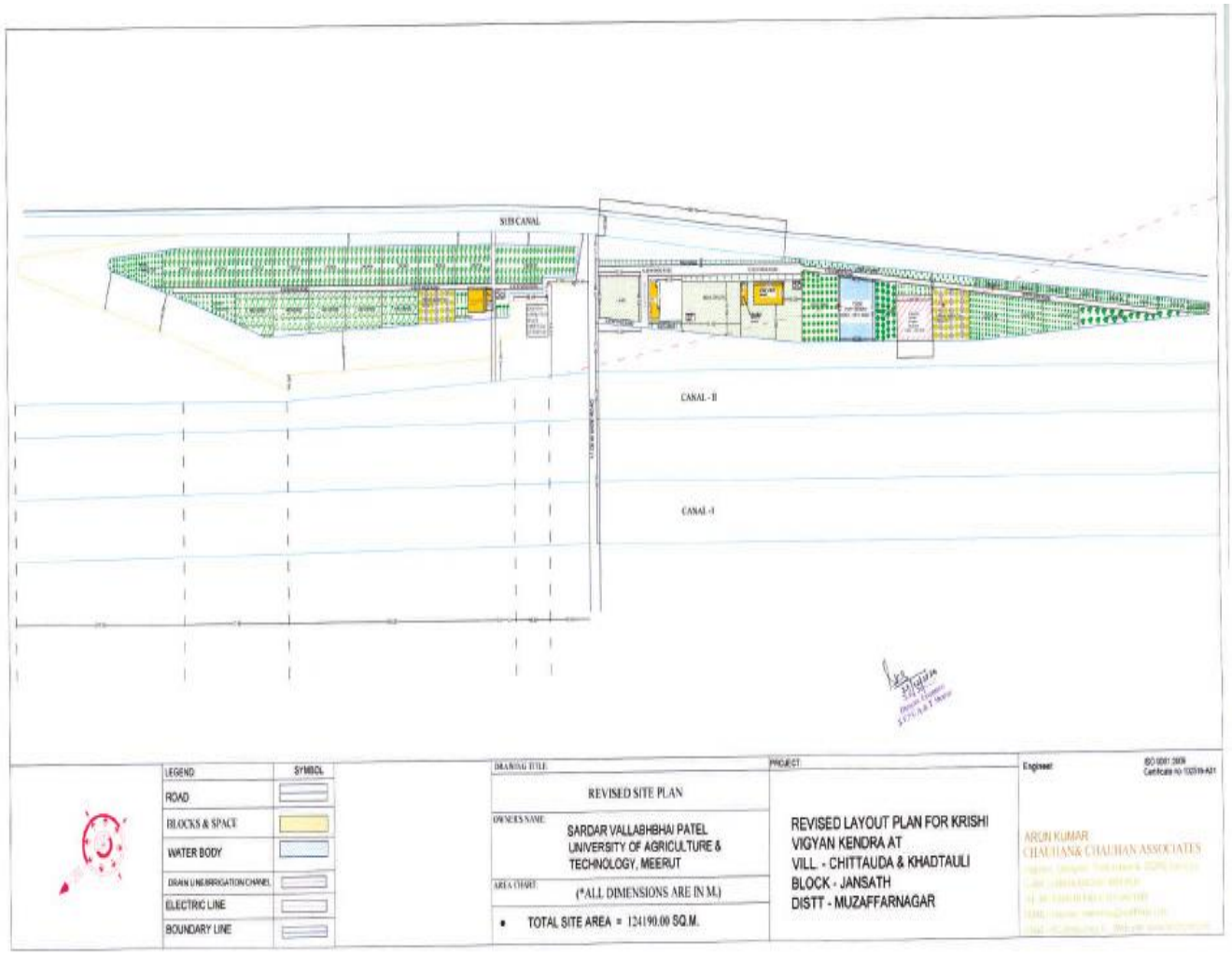
1.4 . Year of Sanction : 2018

1.5. Staff Position (as on 01 Aug. 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id	Please attach recent photograph
1	SMS	Dr. Prabha Shankar Tiwari	Professor	Agril. Engineering	37400-67000	10000	1,77,400	01/07/98	Permanent	GEN	9870949564	drpsteng@gmail.com	
2	SMS	Dr. Surendra Kumar	SMS/ Asstt. Prof.	Agril. Extension	15600-39100 8000	8000	1,01,100	18/07/08	Permanent	OBC	9319304168	sktanwar_kvkbaghpat @ rediffmail.com	
3	SMS	Dr. Yesh Pal Singh	SMS/ Asstt. Prof.	Horticulture	15600-39100 8000	8000	98,200	19/01/09	Permanent	OBC	9457111952	ypsingh76@gmail.com	
4	SMS	Dr. Mohamad Hasnain	SMS	Agronomy	15600-39100	5400	56100	01/07/22	Permanent	OBC	8447286856	mdhasanain49542@gmail.com	
5	SMS	Dr. Saumya Pandey	SMS	Fisheries	15600-39100 8000	5400	56100	06/07/22	Permanent	GEN	9453912200	saumyasmsfisheries@gmail.com	
6	SMS	Dr. Pooja	SMS	Home Science	15600-39100	5400	56100	28/07/22	Permanent	OBC	9023739120	poojakaundal0007@gmail.com	
7	Programme Asstt.	Dr. Jitendra Arya	Programme Asstt.	Horticulture	9300-34800	4800	86,100	01/07/98	Permanent	OBC	9412311554	jkarya67@gmail.com	
8	Programme Asstt	Mr. Sanjeev Kumar	Programme Asstt.,./ Farm Manager	Agronomy	9300-34800	4800	68,000	23/01/04	Permanent	OBC	8392955124	sanjievk1970@gmail.com	
9	Computer Programmer	Mr. U. S. Rathi	Programme Asstt.,Computer	Computer Science	9300-34800	4600	56,900	30/07/07	Permanent	OBC	9012347688	uttam.svp@gmail.com	
10	Driver	Mr. Harish Kant Sharma	Driver	--	5200-20200	2800	45,400	01/07/98	Permanent	GEN	9027224876	-	
11	Supporting Staff	Mr. Udaivir	Attendant	--	4440-7440	2800	38,600	01/07/98	Permanent	OBC	8445125399	udaivirs055@gmail.com	

1.6. Total land with KVK (in ha) : 12.419 ha.

S.No	Item	Area (ha)
1.	Under Building	0.055
2.	Under Demonstration Units	0.015



1.7. Infrastructure Development:

A). Building

S. No.	Name of the Building	Source of fund	Stage Complete		
			Completion date	Plinth area in Sqm.	Sanctioned budget (Rs)
1.	Administrative Building	ICAR	Jan., 2022	550 sqm	15.84 lac
2.	Farmers Hostel	-	-	-	-
3.	Staff Quarters (6)	-	-	-	-
4.	Demonstration Unit (2)	-	-	-	-

B). Vehicles

Type of Vehicle	Year of Purchase	Cost (Rs.)	Total KMS Run	Present Status	Required replacement
Bolero Jeep UP12 AG 0581	2022	800000.00	10,500 KM	Working	No
Motorcycle	-	-	-	-	-
Bicycle	-	-	-	-	-

C). Equipments & AV Aids

Name of Equipment	Year of Purchase	Cost (Rs.)	Present Status	Required replacement
Equipments				
Computer	-	-	Working	
Farm Implements :				

1.8. A. Details of SAC meeting to be Conducted in the year

S. No.	Date
1.	10 January, 2022

2. Details of District (2021-2022)

2.1 Major Farming System/ enterprises (based on analysis made by KVK)

- S. Cane based + A.H + Horticulture
- S. Cane based + A.H + Vegetable + Floriculture
- S. Cane based + A.H + Horticulture

2.2 Description of Agro climatic Zone & major agro ecological situations

Sl. No.	AES	Characteristics of AES	Major Commodities	Farming System	Blocks
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

S.No.	Soil Type	Characteristics		Area (ha)
		Soil particle Diameter (mm)	Water holding capacity	
1.	Sandy	2 - 0.2 mm,	Poor	17633
2.	Sandy loam	0.2 - 0.02 mm,	Medium	128334
3.	Loam	0.02 - 0.002 mm	Average	78186
4.	Clay loam	>than 0.002 mm	Good	5126
		Total		**220269**

2.4. Area, Production & Productivity of major crops cultivated in the district in 2020

S.N	Crop	Area (ha)	Productivity (Qt./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	1074
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 ^{o} C		Relative Humidity (%)
		Maximum	Minimum	
January 2021	59.8	17.6	6.5	91
February 2021	40.0	22.4	7.8	87
March 2021	116.0	26.4	12.4	80
April 2021	35.8	32.6	17.7	64
May 2021	53.4	35.6	22.4	64
June 2021	87.6	35.3	24.5	78
July 2021	324.8	33.0	23.9	79
August 2021	240.0	32.5	24.7	90
September 2021	40.0	34.1	23.8	87
October 2021	0.6	30.7	18.2	83
November 2021	33.2	26.7	13.2	83
December 2021	35.6	17.4	6.7	90

2.6 Production & Productivity of Livestock, Poultry, Fisheries in the district

Category	Population	Production	Productivity
Cows			
Crossbred	35460	413514 liter/day	1800-3178 liter/lactation
Indigenous	133459		1200-2270 liter/lactation
Buffalo	204306	1790140 liter/day	1360-2270 liter/lactation
Sheep		--	--
Crossbred	223	Wool - 11873 kg/ year	--
Indigenous	8478		
Goats	20429	5294 mt	180-544 lit/lactation
Pigs			
Crossbred	10543	12012000 kg meat	--
Indigenous	24856		
Rabbits	281	--	--
Poultry			
Hens			
Desi	54502	163589 kg meat	1.0 kg
Improved	109087		
Ducks	1642	--	--
Turkey	20	--	--
Camel	41	--	--

Fisheries

Category	Area (ha)	Production	Productivity
Fish	1239	40887 qt	30-35

2.7 Details of Operational area/ Villages (2022)

S. No.	Taluk	Name of Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust areas
1.	Khatauli	Khatauli	Nauna, Mogpur, Pal	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	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	--	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	--	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

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	Mechanization of Oilseed & Pulses, Crop, Sulphur, IDM & IPM
Animals	Dairy Establishmnet, Endo & Ecto parasite control, Improving fertility

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) 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

1.8. A). Details SAC meeting* conducted in the year 10 Jan. 2022

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	10-01-2022	1. Director of Extension, SVPUA&T Meerut 2. D.D. Agriculture, Muzaffarnagar 3. DCO, Muzaffarnagar 4. Dr. S. K. Tripathi, Directorate of Extension, SVPUA&T Meerut 5. Dr. Anil Katiyar, OIC, KVK Muzaffarnagar-I 6. DHO, Muzaffarnagar 7. PD ATAM Muzaffarnagar 8. AD Fisheries Muzaffarnagar 9. Dy. CVO Muzaffarnagar 10. Mr. Anil Kumar, Progressive farmer/ member SAC 11. Mr. Pankaj Kumar, Progressive farmer/ Member SAC 12. PPO, Muzaffarnagar 13. Dr. J.P.Singh, Scientist, Sugarcane Research Station, Muzaffarnagar 14. Dr. Sanjay Singh, OIC KVK Muzaffarnagar-II 15. Dr. Surendar Kumar 16. Dr. Yesh Pal Singh 17. Dr. Savita Arya, Scientist, KVK Muzaffarnagar-I 18. Dr. J.K. Arya, Programme Assistant, KVK Muzaffarnagar-II 19. Mr. Sanjiv Kumar, Farm Manager, KVK Muzaffarnagar-II 20. Mr. S.K. Dubey, Accountant, KVK Muzaffarnagar-II 21. Mr. Shri Pal Rana, Scientist, KVK Muzaffarnagar-I	1. The committee staff recommended to make the appointment at the earliest 2. Establishment of proposed jaggery processing and training unit should be done on priority basis. 3. The construction of the proposed building should be completed soon. 4. Speed up the crop residue program 5. Demonstration of newly developed technologies 6. Farmers should be made aware to protect against corona 7. Achieve training and performance	1. Action is being taken at the university level 2. After the tender, the process of installation is in progress. 3. Administrative building construction has been completed 4. All programs are being executed on time 5. In this year Rabi 2021-2022, demonstrations of onion, garlic etc. has been organized. 6. Farmers have been made aware to protect against corona 7. Training targets are not being met due to shortage of scientists.

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2022

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
06	05	20	18	100	82.91	200	221

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	72	19	1440	380	500	278	12000	4649
Rural youth	10	03	100	36				
Extn. Functionaries	18	03	270	40				
Total	**100**	**25**	**1810**	**456**	**500**	**278**	**12000**	**4649**

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	-	-

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 late sown wheat	6	6
	Paddy	Varietal evaluation of paddy	3	3
	Onion	Varietal evaluation of Onion	3	3
	Okra	Varietal evaluation of Okra	3	3
		Total	**18**	**18**

Summary of technologies assessed under various enterprises by KVKs : Nil

I.B. TECHNOLOGY REFINEMENT: Nil

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

Detail of OFT -1: Low yield of existing varieties

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

KVK Muzaffarnagar-II has conducted On Farm Trial 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_1: Agrifound Light Red (Farmers Practice)	03	0.2	305.0	-	150000	488000	338000	1:3.25
T_2 : 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)*

Detail of OFT -2: Low yield of existing varieties

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

KVK Muzaffarnagar-II has conducted On Farm Trial 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. 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_1: Local variety (Farmers Practice)	03	0.2	101.0	-	41000	126250	85250	1:3.07
T_2 : 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)*

Detail of OFT -3: 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 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_1: HD 2967 (Farmers Practice)	03	0.8	44.00	-	40000	89980	49980	1:2.40
T_2 :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)*

Detail of OFT -4: 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 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_1: PBW 226 (Farmers Practice)	03	0.8	42.0	-	38000	84630	46630	1:2.22
T_2 : 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)*

Detail of OFT -5: 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 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 crop are standing in well condition.

Result: **Awaited**

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

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2021 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 **2022** (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	
OILSEEDS										
1	Mustard	Varietal evaluation	PM-31 (Biofortified variety)	Rabi 2021-22	15. 0	14.91	0	30	30	-
PULSES										
1	Chick pea	Varietal evaluation	Improved variety PM 5	Rabi 2021-22	10. 0	10.0	0	30	30	-
CEREALS										
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	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	-
CASH CROPS										
1	Sugarcane	IPM	Use of Trichocard	Kharif-2021	16.0	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	-
HORTICULTURAL CROPS										
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	-

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	Kheera	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	Crop standing	-	-
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	Paddy	13 Mar., 2022	15 Jan. to 15 Feb. 2022	-	-
Sugarcane	Kharif-2021	Irrigated	Sandy Loam	0.40	38	213	Paddy	17 Mar., 2022	17 Jan. to 03 Mar. 2022	-	-
Sugarcane	Kharif-2022	Irrigated	Sandy Loam	0.40	38	213	Paddy	13 Mar., 2022	Crop standing	-	-
Sugarcane	Kharif-2022	Irrigated	Sandy Loam	0.40	38	213	Paddy	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 Nov., 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	-	-

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days/field visit	02	02-03-2022 04-03-2022	40 44	
2	Farmers Training	05	11-10-2021 13-12-2021 05-02-2022 17-02-2022 13-03-2022	20 20 20 20 20	

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops (Cluster frontline demonstration of oilseeds under NFSM)

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Mustard																		
	Varietal evaluation	PM-31 (Biofortified variety)	PM-31	30	14.91	22.0	17.0	19.54	16.6	14.7	26000	126750	100750	1:4.87	26000	110500	84500	1:4.17

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

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

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Chickpea																		
	Varietal evaluation	Improved variety GNG-2171	GNG-2171	30	10	16.5	13.0	14.0	12.5	12	28000	73200	45200	1:2.61	28000	65375	37375	1:2.33

Urd Summer																		
	Varietal evaluation	Improved variety PU-31	PU-31	33	11.2	10.5	7.5	9.8	8.0	22.5	22000	61740	39740	1:2.80	22000	39740	25250	1:2.50

Rate: Chikpea @ Rs. / qtl and Urd @ Rs. 5400 / qtl

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Cereals																			
Wheat																			
	Varietal evaluation	Timely sown wheat variety DBW 187	10	4.0	51.0	46.5	49.00	41.5	18.05	-	-	40000	98735	58735	1:2.46	40000	83622	33622	2.09
	Varietal evaluation	Late sown wheat variety DBW 173	11	4.0	48.5	44.2	46.0	39.0	17.94	-	-	38000	92690	54690	1:2.43	38000	78585	40585	2.60
Paddy																			
	Weed management	Bispyribac sodium @80g/ha	10	4.0			Result awaited												

	Varietal evaluation	Replacement of old variety PB 1 by PB 1637	04	1.6			Result awaited												

Cash Crops																			
Sugarcane																			
	INM	Application of micronutrient @25 kg ZnSo4+12.5 kg CuSo4+12.5 kg FeSo4 and 3 kg Borax/ha	12	4.0	825	720	780	700	11.42	-	-	95000	273000	178000	1:2.87	92000	245000	153000	1:2.66
	IPM	Applicataion of Trichocard for control of Borer	32	16	750	650	680	650	4.61	-	-	92000	238000	146000	1:2.580	96000	227500	131500	1:2.36

	INM	Application of micronutrient @25 kg ZnSo4+12.5 kg CuSo4+12.5 kg FeSo4 and 3 kg Borax/ha	10	4.0					**Result Awaited**										
	IPM	Application of Trichocard for control of Borer	43	20					**Result Awaited**										

Vegetable																			
Onion																			
		Improved variety i.e. Agrifound light red	10	0.2	365	292	320	271.4	17.9	-	-	150000	512000	362000	3.41	150000	434240	284240	2.89
Garlic																			
		Improved variety i.e. Yamuna Safed 3 (G-282)	10	0.2	178	148	161	134	20.14	-	-	86367	322000	235000	3.72	86367	261300	174935	3.02

Onion variety Agrifound Light Red

Garlic variety- Yamuma Safed 3 (G-282)

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

FLD on Livestock : Nil

FLD on Fisheries : Nil

FLD on Other enterprises : Nil

FLD on Women Empowerment: Nil

FLD on Farm Implements and Machinery: Nil

FLD on Other Enterprise: Kitchen Gardening : Nil
FLD on Demonstration details on crop hybrids *(Details of Hybrid FLDs implemented during* **2020***): Nil*

III. Training Programme

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Resource Conservation Technologies	1	18	0	18	2	0	2	20	0	20
Integrated Farming	1	18	0	18	2	0	2	20	0	20
Total	**2**	**36**	**0**	**36**	**4**	**0**	**4**	**40**	**0**	**40**
II Horticulture										
a) Fruits										
Lay out and establishment of orchard	1	20	0	20	0	0	0	20	0	20
Total (a)	**1**	**20**	**0**	**20**	**0**	**0**	**0**	**20**	**0**	**20**
b) Ornamental Plants										
Production technique	1	17	0	17	3	0	3	20	0	20
Total (b)	**1**	**17**	**0**	**17**	**3**	**0**	**3**	**20**	**0**	**20**
GTotal (a+b)	**2**	**37**	**0**	**37**	**3**	**0**	**3**	**40**	**0**	**40**
III Soil Health and Fertility Management										
Soil fertility management	1	18	0	18	2	0	2	20	0	20
Total	**1**	**18**	**0**	**18**	**2**	**0**	**2**	**20**	**0**	**20**
IV Capacity building										
Application of ICT in Agriculture	1	19	0	19	1	0	1	20	0	20
Total	**1**	**19**	**0**	**19**	**1**	**0**	**1**	**20**	**0**	**20**
GRAND TOTAL	**6**	**110**	**0**	**110**	**10**	**0**	**10**	**110**	**0**	**120**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Cropping Systems	2	38	0	38	2	0	2	40	0	40
Crop Diversification	2	38	0	38	2	0	2	40	0	40
Total	**4**	**76**	**0**	**76**	**4**	**0**	**4**	**80**	**0**	**80**
II Horticulture										
a) Vegetable Crops										
Production technique and management	1	20	0	20	0	0	0	20	0	20
Production of high value and low volume vegetable crops	1	20	0	20	0	0	0	20	0	20
Nursery raising	1	20	0	20	0	0	0	20	0	20
Total (a)	**3**	**60**	**0**	**60**	**0**	**0**	**0**	**60**	**0**	**60**
III Soil Health and Fertility Management										
Soil fertility management	1	17	0	17	3	0	3	20	0	20
Integrated water management	1	19	0	19	1	0	1	20	0	20
Total	**2**	**36**	**0**	**36**	**4**	**0**	**4**	**40**	**0**	**40**
IV Capacity Building										
Constitution of SHG	1	18	0	18	2	0	2	20	0	20
Total	**1**	**18**	**0**	**18**	**2**	**0**	**2**	**20**	**0**	**20**

V Home Science/Women empowerment										
Nutri-garden	1	0	20	20	0	0	0	0	20	20
Total	**1**	**0**	**20**	**20**	**0**	**0**	**0**	**0**	**20**	**20**
VI Fisheries										
Types of fishes culture	1	12	06	18	02	0	02	14	06	20
Types of aquaculture practices	1	15	05	20	0	0	0	15	05	20
Total	**2**	**27**	**11**	**38**	**02**	**0**	**0**	**29**	**11**	**40**
GRAND TOTAL	**13**	**217**	**31**	**248**	**12**	**0**	**10**	**229**	**31**	**260**

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Cropping Systems	2	38	0	38	2	0	2	40	0	40
Crop Diversification	2	38	0	38	2	0	2	40	0	40
Resource Conservation Technologies	1	18	0	18	2	0	2	20	0	20
Integrated Farming	1	18	0	18	2	0	2	20	0	20
Total	**6**	**112**	**0**	**112**	**8**	**0**	**8**	**120**	**0**	**120**
II Horticulture										
a) Vegetable Crops										
Production technique and management	1	20	0	20	0	0	0	20	0	20
Production of high value and low volume vegetable crops	1	20	0	20	0	0	0	20	0	20
Nursery raising	1	20	0	20	0	0	0	20	0	20
Total (a)	**3**	**60**	**0**	**60**	**0**	**0**	**0**	**60**	**0**	**60**
b) Fruits										
Lay out and establishment of orchard	1	20	0	20	0	0	0	20	0	20
Total (b)	**1**	**20**	**0**	**20**	**0**	**0**	**0**	**20**	**0**	**20**
b) Ornamental Plants										
Production technique	1	17	0	17	3	0	3	20	0	20
Total (c)	**1**	**17**	**0**	**17**	**3**	**0**	**3**	**20**	**0**	**20**
G. Total (a+b+c)	**5**	**97**	**0**	**97**	**3**	**0**	**3**	**100**	**0**	**100**
III Soil Health and Fertility Management										
Soil fertility management	2	35	0	35	5	0	5	40	0	40
Integrated water management	1	19	0	19	1	0	1	20	0	20
Total	**3**	**54**	**0**	**54**	**6**	**0**	**6**	**60**	**0**	**60**

IV Capacity Building										
Constitution of SHG	1	18	0	18	2	0	2	20	0	20
Application of ICT in Agriculture	1	19	0	19	1	0	1	20	0	20
Total	**2**	**37**	**0**	**37**	**3**	**0**	**3**	**40**	**0**	**40**
V Home Science/Women empowerment										
Nutri-garden	1	0	20	20	0	0	0	0	20	20
Total	**1**	**0**	**20**	**20**	**0**	**0**	**0**	**0**	**20**	**20**
VI Fisheries										
Types of fishes culture	1	12	06	18	02	0	02	14	06	20
Types of aquaculture practices	1	15	05	20	0	0	0	15	05	20
Total	**2**	**27**	**11**	**38**	**02**	**0**	**0**	**29**	**11**	**40**
GRAND TOTAL	**19**	**327**	**31**	**358**	**22**	**0**	**20**	**349**	**31**	**380**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated farming system	01	08	0	08	03	0	03	11	0	11
Nursery Management	01	10	0	10	0	0	0	10	0	10
Natural farming	01	15	0	15	0	0	0	15	0	15
TOTAL	**03**	**33**	**0**	**33**	**03**	**0**	**03**	**36**	**0**	**36**

Training for Rural Youths including sponsored training programmes (Off campus): Nil

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated farming system	1	8	0	8	3	0	3	11	0	11
Nursery Management	1	10	0	10	0	0	0	10	0	10
Natural farming	1	15	0	15	0	0	0	15	0	15
TOTAL	**03**	**33**	**0**	**33**	**03**	**0**	**03**	**36**	**0**	**36**

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

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Natural Farming	1	10	0	10	0	0	0	10	0	10
Application of ICT in Agriculture	1	14	0	14	1	0	1	15	0	15
Crop production	1	15	0	15	0	0	0	15	0	15
TOTAL	**3**	**39**	**0**	**39**	**1**	**0**	**1**	**40**	**0**	**40**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Natural Farming	1	10	0	10	0	0	0	10	0	10
Application of ICT in Agriculture	1	14	0	14	1	0	1	15	0	15
Crop production	1	15	0	15	0	0	0	15	0	15
TOTAL	**3**	**39**	**0**	**39**	**1**	**0**	**1**	**40**	**0**	**40**

Sponsored training programmes : Nil

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

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	-	325	7	332
Diagnostic visits	68	112	8	120
Field Day	2	88	4	92
Group discussions	35	270	8	278
Kisan Ghosthi	10	1250	55	1305
Self -help groups	-	-	-	-
Kisan Mela	2	546	45	591
Scientists' visit to farmers field	155	212	4	216
Farmer's visit to KVK	-	1100	55	1155
Celebration of important days	5	455	17	472
Special day celebration	1	86	2	88
Total	**278**	**4444**	**205**	**4649**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature (folder)	07
News paper coverage	24
Popular articles	0
Radio Talks	0
TV Talks	05
Animal health amps (Number of animals treated)	0
Total	**36**

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
	Text only	68	-	4	8	12	6	**98**
	Voice only	-	-	-	-	-	-	**-**
	Voice & Text both	-	-	-	-	-	-	**-**
	Total Messages	68	-	4	8	12	6	**98**
	Total farmers Benefitted	**400**		**55**	**12**	**83**	**0**	**550**

FPO:

A FPO namely "Vallabh Krishak Utapadak Sangthan Evam Audyanik Vipnan Sahkari Samiti Limited, Shikhera, Jansath" was constituted promoted by KVK, Muzaffarnagar-II. Account of FPO has open and selection of Sanchalak Mandal has been completed. The registration process is under progress.

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 Exibition 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	

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS : Nil

VI. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs: Nil

Production of crops by the KVKs: Nil

Production of planting materials by the KVKs: Nil

Production of Bio-Products: Nil

Table: Production of livestock materials: Nil

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS: Nil

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted	Date of SAC
KVK, Muzaffarnagar-II	01	10-01-2022

IX. NEWSLETTER/MAGAZINE

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

X. PUBLICATIONS

Category	Number
Booklet (Impact of Technologies)	01
Book chapter	01
Technical reports	21
Folder	07

XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM: Nil

XII. INTERVENTIONS ON DISASTER MANAGEMENT/UNSEASONAL RAINFALL/HAILSTORM/COLD WAVES ETC: Nil

XIII. DETAILS ON HRD ACTIVITIES: Nil

A. **HRD activities organized in identified areas for KVK staff by the Directorate of Extension : Nil**

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

XIV. CASE STUDIES : *Nil*

XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE: Nil

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION: Nil

XVI Achievement of Special programmes

1) **Achievement of skill development training funded by DAC&FW:** N.A.
2) **Achievements under Crop Residue Management (CRM) Project by KVKs:** N.A.
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:** Nil
8) **Achievements of Farmers FIRST programme:** Nil
9) **Activities performed under NARI programme:** Nil
10) **Achievements of Soil, water, plant and manure samples analyzed by KVKs and soil health cards issued:** Nil
11) **Achievements under NICRA Project:** Nil
12) **Achievements under ARYA Project:** Nil
13) **Achievements under Rainwater Harvesting Structures:** Nil
14) **Achievements under Pulses Seed Hub programme:** Nil
15) **NEMA (New Extension Methodologies and Approaches) :** N.A.
16) **Achievements under CSISA (C**
17) **ereal System Initiative for South Asia) project :** N.A.

18) Achievements under NIFTD (National Initiatives for fodder technology demonstrations) :
N.A.

19) Achievements under Swachhata Abhiyan Mission

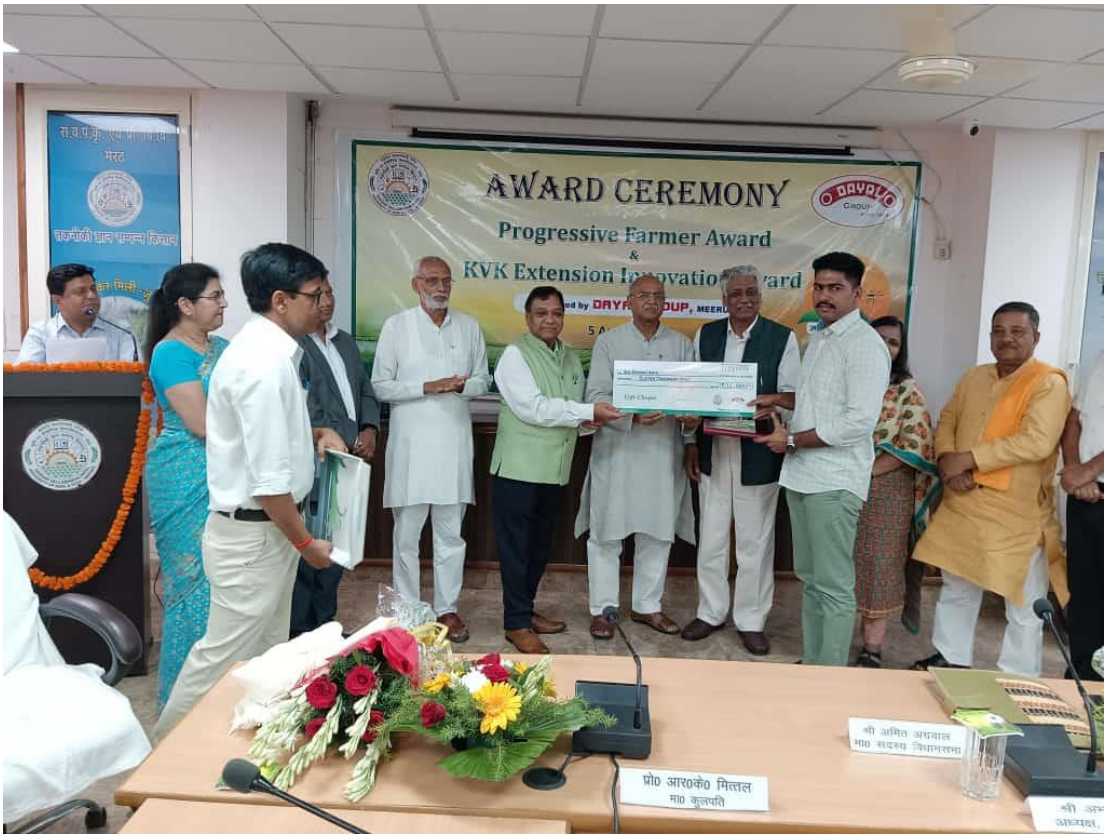
S.No.	Items	No. of Programmes	No. of persons participated
1	Garbage disposal	2	16
2	Door to door awareness	24	96
3	Awareness campaign	2	30
4	Other (Harvesting of kitchen water for nutrition garden)	2	30

20) Achievements under Aspirational District Scheme: Nil

XVI Awards:

1- Progressive Farmer Award for innovating farming practices

Progressive Farmer Award for innovating farming practices given by Dayal Group and promoting by KVK, Muzaffarnagar-II to Sh. Devesh Arya, Village- Nooni Kheda, Block Jansath, Muzaffarnagar on 5th August, 2022 at SVPUAT, Meerut.



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