ANNUAL REPORT (Jan 2020- Dec.2020)

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	34	680	-	680
Rural youths	--	--	--	--
Extension functionaries	04	40	--	40
Sponsored Training	10	440	60	500
Vocational Training	--	--	--	--
Total	**48**	**1160**	**60**	**1220**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	61	22.00	--
Pulses	167	53.05	--
Cereals	31	12.00	--
Vegetables	--	--	--
Commercial Crops	72	40.00	--
Total	**331**	**127.05**	
Livestock & Fisheries			
Other enterprise- H.Sc			
Total			
Grand Total	**331**	**127.05**	**--**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	03	03	12
Livestock			
Other enterprises			
Total			
Technology Refined	03	03	12
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	**03**	**03**	**12**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	1253	3541
Other extension activities	17	170
Total	**1270**	**3711**

4. Mobile Advisory Services

55 Message Type	Type of Messages						
	Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Text only							
Voice only	240	--	40	20	30	22	352
Voice & Text both							
Total Messages							
Total farmers Benefitted	240	--	40	20	30	22	352

5. Seed & Planting Material Production

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

6. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil- Macro/Micro Nutrient	--	--
Soil Health Card Issued	--	
Total – Soil Health Card		

7. HRD and Publications

Sr. o.	Category	Number
1	Workshops	05
2	Conferences	--
3	Meetings	10
4	Trainings for KVK officials	--
5	Visits of KVK officials	12
6	Book published	--
7	Training Manual	--
8	Book chapters	--
9	Research papers	03
10	Lead papers	--
11	Seminar papers	--
12	Extension folder/ Tech Card	05
13	Proceedings	02
14	Award & recognition	--
15	On going research projects	--

PROGRESS REPORT

(Jan to Dec. 2020)

1. General Information about the KVK

1.1. Name and address of the KVK

Address	Telephone		E-Mail
	Office	FAX	
KRISHI VIGYAN KENDRA, CHITTORA, DISTT.-MUZAFFARNAGAR –II (U.P.) PIN- 251314	0131-2466362 9411078115		kvkmuzaffarnagar@gmail.com muzaffarnagarkvk@gmail.com

1.2. Name and address of the host organization

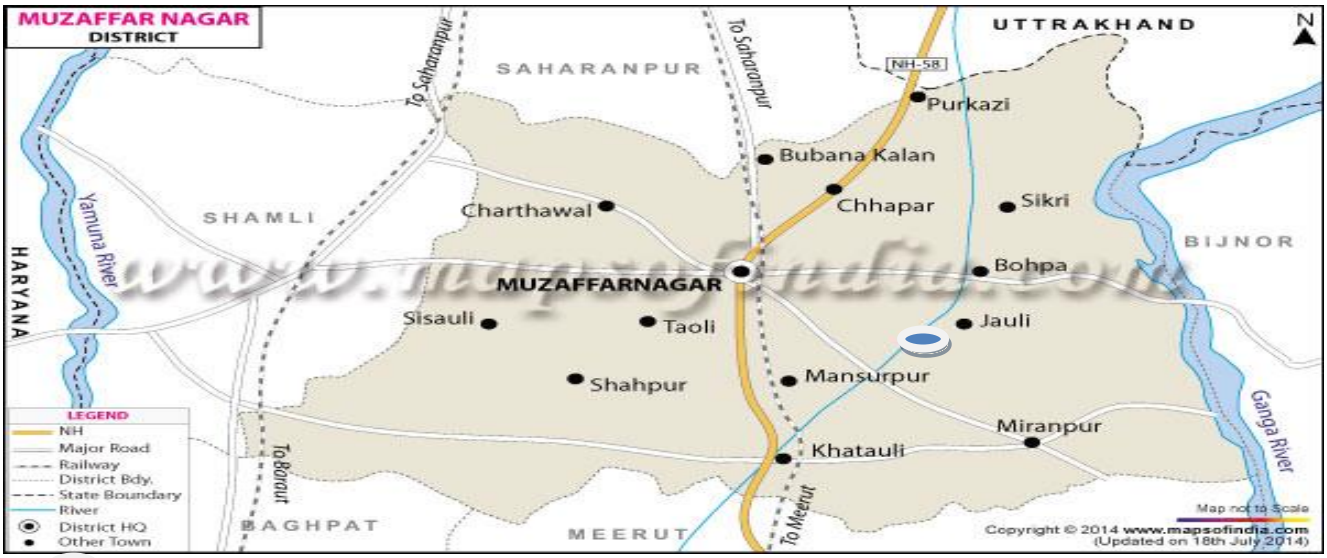
Address	Telephone		E-Mail
	Office	FAX	
DIRECTORATE OF EXTENSION S.V.P.Univ. of Agril. & Tech., Meerut.	0121- 2888511	0121- 2888505 2888540	deesvpuat2014@gmail.com

1.3. Name of the Professor & Head

Name	Telephone/ Contact		
	Residence	Mobile	E-Mail
Dr. P.K.Singh	--	09411078115	kvkmuzaffarnagar@gmail.com muzaffarnagarkvk @gmail.com

1.4 . Year of Sanction : 2018

Location



KVK CHITTORA, MUZAFFARNAGAR- II, WESTERN PLAIN ZONE (UP)

1.5. Staff Position (as on Dec. 2020) :

S. No	Sanctioned Post	Name of incumbent	Designation	Discipline	Pay Scale Present Grade Pay	Date of Joining	Category
1.	SMS	Dr. Sanjay Kumar	Associate Director	Agril. Engg.	37400-67000 9000	10.12.03	GEN
2.	SMS	Dr. Surendar Kumar	Asstt. Prof.	Agril. Extn.	15600-39100 7000	18.07.08	OBC
3.	Farm Manager	Sh. Sanjeev Kumar	Farm Manager	Agronomy	9300-34800 4800	22.01.04	OBC

1.6. Total land with KVK (in ha) : 12.491 ha.

S.No	Item	Area (ha)
1.	Under Building	0.00
2.	Under Demonstration Units	0.00
3.	Under Farm	12.491

1.7. Infrastructure Development : Nil

A). Building : Nil
B). Vehicles : Nil
c). Equipments & AV Aids : Nil

1.8. A). Details SAC meeting* conducted in the year : Nil

Sl. No.	Date	Name and Designation of Participants	Sailent Recommendation	Action taken
1.	14.12.20	1. Dr. Atar Singh, Director ATARI, Kanpur (Online) 2. Dr. S.K.Dubey, Principle Scientist , ATARI, Zone- III, Kanpur 3. Dr.Sadhana Panday, Scientist ATARI, Zone- III, Kanpur 4. Dr. Asock Kumar, Professor (Soil Sc.), SVPUA&T,Meerut 5. Dr. D.K.Singh, Professor, Veternary Sc. SVPUA&T, Meerut 6. Dr. L.K.Gangwari, Professor, SVPUA&T, Meerut 7. Dr. K.G.Yadav, Associate Prof., SVPUA&T, Meerut 8. Dr. S.K.Lodhi, Associate Prof., SVPUA&T, Meerut 9. Sh. Satendra Maan, DHO, Muzaffarnagar 10. Sh. Arvind Kumar Sharma, Dy PD, ATMA , MZN 11. Sh.Abhisek Srivastava,DDM, NABARD, Muzaffarnagar 12. Sh. Neeraj Kumar, Veternery Officer, Baghra 13 Dr. J.P.Singh, Joint Director, Sugercane Research, MZN 14. Sh. Priyavardhan, ABDM,Dhanuka 15. Five progressive Farmers of Distt & All Scientist & Staff of KVK Muzaffarnagar II - Total 36 members. .		

2. Details of District

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
- A.H + Labour

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	Purkaji, Morna & Jansath
1.	AES-2	More than 95%, Sandy Loam	S.Cane, Wheat, Jowar, Brinjal, Cabbage, Gladiolus, Tuberose,	S. Cane based + A.H+ Vegetable+ Floriculture	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		**219269**

2.4. Area, Production & Productivity of major crops cultivated in the district in 2019

S.No	Crop	Area (ha)	Productivity (Qt./ha)
1.	Sugarcane	81719.00	812.00
2.	Wheat	37079	41.17
3.	Paddy	7483	23.36

4.	Blackgram	554	5.40
5.	Mustard	1609	12.35
6.	Fodder	21042.00	--

2.5 Weather Data

Month	Rainfall (mm)	Temperature ^{o} C		Relative Humidity (%)
		Maximum	Minimum	
October 2019	0.6	30.7	18.2	83
November 2019	33.2	26.7	13.2	83
December 2019	35.6	17.4	6.7	90
January 2020	59.8	17.6	6.5	91
February 2020	40.0	22.4	7.8	87
March 2020	116.0	26.4	12.4	80
April 2020	35.8	32.6	17.7	64
May 2020	53.4	35.6	21.4	64
June 2020	87.6	35.3	24.5	78
July 2020	324.8	33.0	23.9	79
August 2020	240.0	32.5	24.7	90
September 2020	40.0	34.1	23.8	87

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	194306	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	19	--	--
Camel	41	--	--

2.7 Details of Operation area/ Villages (2019)

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 & disease	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 & disease	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 ,IPNM, SSNM, 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, Zinc application & IPM
Animals	Dairy Establishmnet, Endo & Ecto parasite control, Improving fertility

1. In-situ management of crop residue.
2. Popularization of drip irrigation for 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(Tricocard,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

3.A. Details of target and achievements of mandatory activities by KVK during 2019

OFT (Technology Assessment and Refinement)		FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)				
1		2				
Number of OFTs		Achievements		Shortfall		
Targets	Achievement	Crop/Enterprise	No of Demo./ Farmer	Targets		Achievement
12-14	03	Cereals	61	Demo	200	331
		Pulses	167	Area (ha)	100	127.05
		Oilseeds	31			
		Fruits	--			
		Other crops	72			
		H.Sc				
		Buffalo/ Cattle				
12-14		**Total**	**331**			

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	48	2000	1220	---	1270	4000	3711
Rural youth								
Extn. Functionaries								
Sponsored								
Total:	**100**	**48**	**2000**	**1220**	**--**	**1270**	**4000**	**3711**

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200 Q.	--	--	20000 No.	--	--
Total :	**--**	**--**	**20000 No.**	**--**	**--**

Soil Samples (Nos.)			
5			
Target	Achievement	No. of farmers	Amount
1200	--	--	--
Total :	--	--	--

I.A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Varietal Evaluation	Wheat	Varietal Evalaution of Timly sown Wheat	1	3
	Wheat	Varietal Evalaution of Late sown Wheat	1	3
	Paddy	Varietal Evalaution of Paddy	1	3
Total			**3**	**9**

Summary of technologies assessed under livestock

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers

I.B. TECHNOLOGY REFINEMENT- Nil

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

VARIETAL EVALUATION

Problem identification: Lower productivity and profitability of Wheat due to use of old & disease prone variety (PBW- 550).

Technology Assessed: Introduction of timely sown HYV variety of Wheat WB 02

Table : Evaluation of high yielding variety of Wheat

Technology Option	Yield (qt./ha)	Gross Return (Rs/ha)	Net income (Rs/ha)	B:C Ratio
T1- Farmers practice (PBW-343)	41.00	73800.00	34300.00	1.86
T2- WB 02	44.50	80100.00	40600.00	2.02

DOS : 06.11.19 **DOH 19.4.2020**

Result :

1. WB 02 variety gave yield of 44.50 qt/ha with net return Rs. 40600/ha

Farmers Reaction :

1. Market rate of WB 02 is slightly high due to bio fortification.
2. There was no lodging seen in WB 02

VARIETAL EVALUATION

Problem identification: Lower productivity and profitability in late sown Wheat variety PBW 226

Technology Assessed : Introduction of late sown HYV variety of Wheat DBW 71

Table : Evaluation of high yielding variety of Wheat

Technology Option	Yield (qt./ha)	Gross Return (Rs/ha)	Net income (Rs/ha)	B:C Ratio
T1- Farmers practice (PBW 226)	37.00	66600.00	28600.00	1.75
T2- DBW 71	43.80	78840.00	40840.00	2.07

DOS : 11 Dec. 2019 ***DOH : 24.4.2020***

Result :

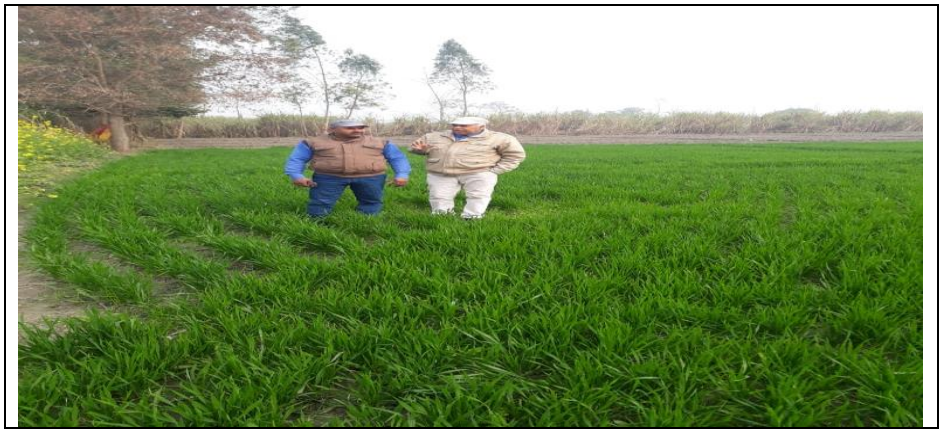
1. DBW 71 variety gave yield of 43.80q/ha and net return Rs.40840.00/ha and also proved resistant against yellow rust. There were no lodging seen during the crop period.

2. Variety DBW 71 gave 18.37 % more yield in comparison to PBW 226.

Farmers Reaction:

1. The straw quality of DBW 71 was better.

2. DBW 71 performed better in very late sown condition also.(First week of January)



VARIETAL EVALUATION

Problem definition: Lower productivity and profitability of Basmati (PB 1)

Technology Assessed : Varietal Evaluation of Basmati varieties PB 1718

Table : Evaluation of high yielding variety of Paddy

Technology Option	Yield (qt./ha)	% increase in yield	Gross income (Rs/ha)	B:C Ratio
T1- Farmers practice - Pusa Basmati 1	36.20	---	72400.00	1.98
T2- Pusa Basmati 1718	39.80	9.94	79600.00	2.12

Date of Transplanting : 8.07.2020 DOH : 30 Oct. 2020

Result :

1. The PB 1718 variety gave 9.94 % more yield in comparison to PB 1

Farmers Reaction :

1. Due to shorter duration farmers like PB 1718 in comparison to PB1.

2. The rice recovery was observed (45-50 %)in PB 1718

II. DETAILS OF FLD (OILSEEDS) IMPLEMENTED

A. CFLD in Rabi 2019-20 : (Mustard)

Details of FLDs implemented during Rabi 2019-20 under NFSM

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	
1.	Mustard	Crop Production	Improved Variety (Giriraj)	Rabi 2019-20	20	22	05	56	61	-

Details of farming situation

Crop	Season	Irrigation 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 2019-20	Irrigated	Lome to Sandy Loam	-	-	-	Fodder	03-28 October	02-09 March	-	07

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field Visit	07	15-11-2019, 11-12-2019 08-01-2020, 25-01-2020 17-02-2020, 13-03-2020	27	
2	Farmers Training	03	09-12-2019, 15-01-2020 24-02-2020	60	

Performance of Frontline demonstrations :

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Demo Yield (q/ha)			Check	% Increase in yield
						High	Low	Average		
Mustard	Crop Production	Improved Variety(Giriraj)	Giriraj	61	21.5	20.80	15.50	18	14.5	24.13

Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
24000	75600	51400	3.15	24000	60900	36900	2.53

Performance of technology (Mustard)

Traits	Giriraj	Check variety
Maturity Duration (days)	132-140	130-142
Disease occurrence	No disease occurrence	No disease occurrence
Uniform Maturity	Uniform Maturity	No Uniform Maturity

DETAILS OF FLD (PULSES) IMPLEMENTED

A. CFLD in Rabi 2019-20 : (Lentil)

Details of FLD implemented during Rabi 2019-20 under NFSM

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	
1.	Lentil	Crop Production	Improved Variety PL08	Rabi 2019-20	10	11.25	03	36	39	-

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					
Lentil	Rabi 2019-20	Irrigated	Lome to sandy Loam	-	-	-	Fodder and Rice	08-29 November	14-28 April	-	07

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field Visit	04	13-11 2019, 05-12 2019 21-01 2020, 19-03-2020	22	
2	Farmers Training	02	21-01 2020, 16-03-2020	40	

Performance of Frontline demonstrations :

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Demo Yield (q/ha)			Check	% Increase in yield
						High	Low	Average		
Lentil	Crop Production	Improved Variety PL08	PL 8	39	11.25	13.00	9.80	11.25	8.75	22.20

Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
17200	54000	36800	3.13	17200	42000	24800	2.44s

Performance of technology (Mustard)

Traits	PL 08	Check variety
Maturity Duration (days)	129-140	122-136
No disease occurrence occurrence	Wilt disease occurrence due to frequently rainfall in crop season	Wilt disease occurrence
Uniform Maturity	Uniform Maturity	Uniform Maturity

B. CFLD in Rabi 2019-20 : (Gram)

Details of FLDs implemented during Rabi 2019 -20under NFSM

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	
1.	Gram	Crop Production	Improved Variety RVG-202	Rabi 2019-20	10	10	02	28	30	-

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					
Gram	Rabi 2019-20	Irrigated	Lome to Sandy Loam	-	-	-	Fodder and Rice	14 Oct.-07 November	07-29 April	-	07

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field Visit	04	15-11-2019,21-11-2020 15-01-2020,19-03-2020	19	
2	Farmers Training	02	24-01-2020, 19-03-20120	40	

Performance of Frontline demonstrations :

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Demo Yield (q/ha)			Check	% Increase in yield
						High	Low	Average		
Gram	Crop Production	Improved Variety RVG-202	RVG-202	30	10	17.40	14.00	15.50	12.20	27.04

Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
19500	75562	56062	3.87	18800	59475	40675	3.16

Performance of technology (Mustard)

Traits	RVG 202	Check variety
Maturity Duration (days)	124-136	121-138
Disease occurrence	Wilt disease occurrence due to frequently rainfall in crop season	Wilt disease occurrence
Uniform Maturity	Uniform Maturity	Uniform Maturity

C.Result of CFLD on Mung :

1. Details of FLDs Mung implemented during Zaid 2020 under NFSM

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	
1.	Mung	Varietal evaluation	Variety PM 5	Zaid 2020	10.0	10.0	1	24	25	--

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					
Pulses											
Mung	Zaid 2020	Irrigated	Sandy Loam to Loam	M	M	M	Jowar (Fodder)	27 Feb 7th March	24th May to 2nd June	--	--

Technical Feedback on the demonstrated technologies

S.No	Feed Back
	Pulses
1.	It is resistant to Yellow mosaic virus.
2.	20-25 No. of pods per plant were found in this variety.

Farmers' reactions on specific technologies

S. No	Feed Back
1.	It is resistant to Yellow mosaic virus.
2.	The crop matures in short period
3.	It is suitable as a case crop under Fodder- Wheat System

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field Visit	--	--	--	--
2.	Farmers Training	1	13.05.20	20	--

Performance of Frontline demonstrations :

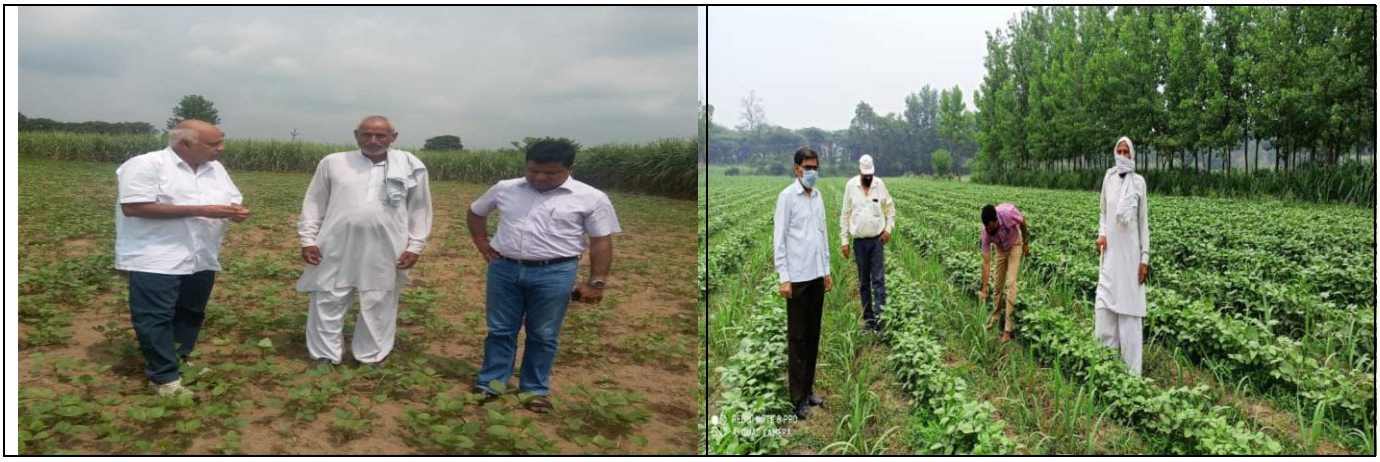
Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield
						Demo			Check	
						High	Low	Average		
Mung	ICM	Treated Seed of PM 5	PM 5	25	10.0	9.25	7.20	8.25	6.40	28.91

Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
20800	56925	36125	2.72	20000	44160	24160	2.08

Rate of Moong @ Rs. 6975/qt

Performance of technology (Mung)

Traits	Pant Mung 5	Check variety
Maturity Duration (days)	85	90 and above
Disease occurrence	Nil	Yellow Mosaic



D. Result of CFLD on Urd :

Details of FLDs Urd implemented during Zaid 2020 under NFSM

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	
1.	Urd	Varietal evaluation	Mash 479	Zaid 2020	10.00	10.00	2	24	26	--

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					
Pulses											
Urd	Zaid 2020	Irrigated	Sandy Loam to Loam	M	M	M	Jowar (Fodder) & Wheat	28 Feb – 14 March	29 May - 8th June	--	--

Technical Feedback on the demonstrated technologies

S.No	Feed Back
	Pulses
1.	It is resistant to Yellow mosaic virus.
2.	20-30 No. of pods per plant were found in this variety.
3.	Uniform maturity

Farmers' reactions on specific technologies

S. No	Feed Back
1.	It is resistant to Yellow mosaic virus.
2.	It is not much tall variety.
3.	The crop matured in 80-85 days
4.	Crop harvested before sowing of wheat crop in this region.
5.	It is suitable as a case crop under Fodder- Wheat System

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field Visit				--
2	Farmers Training	01	19.3.20	20	--

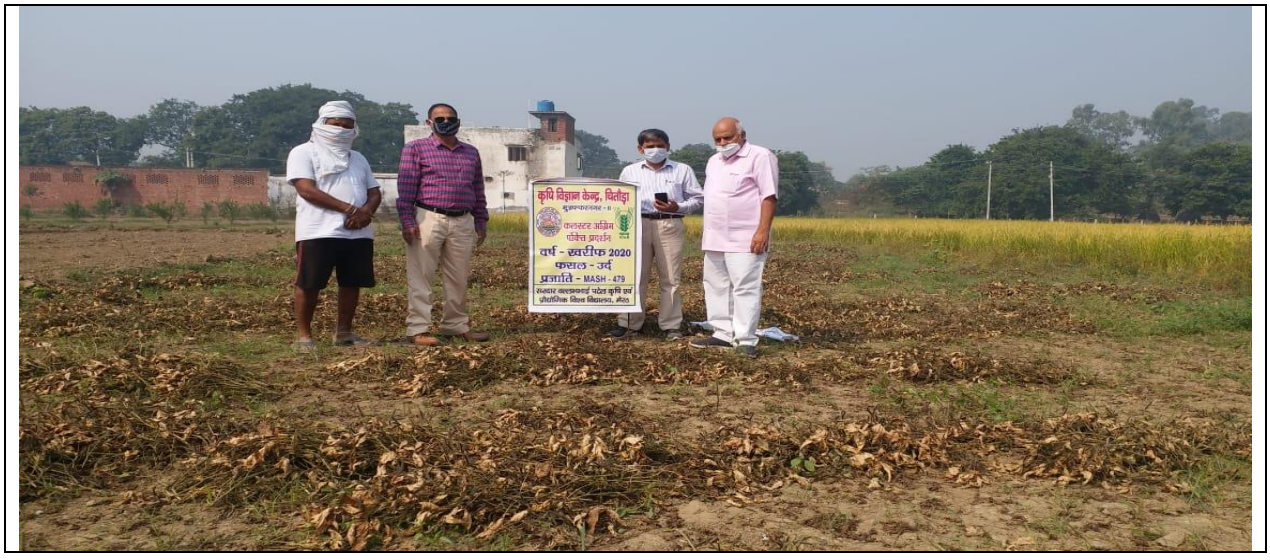
Performance of Frontline demonstrations :

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Demo Yield (q/ha)			Check	% Increase in yield
						High	Low	Average		
Urd	ICM	Treated Seed ,	Mash 479	26	10.00	9.75	7.6	8.80	6.75	30.37

Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
20200	49280	29080	2.43	20000	37800	17800	1.89

Performance of technology (Mung)

Traits	Mash 479	Check variety
Maturity Duration (days)	90	92
Disease occurrence	0-1%	5 % & Above
Uniform Maturity	90%	70-80%



E. Result of CFLD on Urd :

Details of FLDs Urd implemented during Kharif 2020 under NFSM

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	
1.	Urd	Varietal evaluation	Mash 479	Kharif 2020	10.00	11.80	3	44	47	--

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					
Pulses											
Urd	Kharif 2020	Irrigated	Sandy Loam to Loam	M	M	M	Jowar (Fodder) & Wheat	22 July – 11Aug.	2-11 Nov.	--	--

Technical Feedback on the demonstrated technologies

S.No	Feed Back
	Pulses
1.	It is resistant to Yellow mosaic virus.
2.	20-30 No. of pods per plant were found in this variety.
3.	Uniform maturity

Farmers' reactions on specific technologies

S. No	Feed Back
1.	It is resistant to Yellow mosaic virus.
2.	It is not much tall variety.
3.	The crop matured in 90 days
4.	Crop harvested before sowing of wheat crop in this region.
5.	It is suitable as a case crop under Fodder- Wheat System

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field Visit				--
2	Farmers Training	1	2.9.20	20	--

Performance of Frontline demonstrations :

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Demo Yield (q/ha)			Check	% Increase in yield
						High	Low	Average		
Urd	ICM	Treated Seed,	Mash 479	47	11.80	9.80	8.00	9.20	7.85	17.19

Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
19800	51520	31720	2.60	19500	43960	24460	2.25

Performance of technology (Mung)

Traits	Mash 479	Check variety
Maturity Duration (days)	90	92
Disease occurrence	0-1%	5 % & Above
Uniform Maturity	90%	70-80%

FLD ON OTHER CROPS

A. FLD in Rabi 2019-20 : (Wheat- Timely Sown)

Performance of Frontline demonstrations :

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Demo Yield (q/ha)			Check	% Increase in yield
						High	Low	Average		
Wheat	Crop Production	Improved Variety of Timaly Sown Wheat	DBW 621-50	11	04	49.5	43.20	48	41.5	15.66

Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
38000	86400	48400	2.27	38000	74700	36700	1.96

B. FLD in Rabi 2019-20 : (Wheat- Late Sown)

Performance of Frontline demonstrations :

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Demo Yield (q/ha)			Check	% Increase in yield
						High	Low	Average		
Wheat	Crop Production	Improved Variety of Late Sown Wheat	DBW 90	10	04	47.5	42.00	45.8	41.00	11.7

Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
36500	82440	45950	2.25	36500	73800	37300	2.02

C. FLD on Weed management in Paddy Kharif 2020 :

Performance of Frontline demonstrations :

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Demo Yield (q/ha)			Check	% Increase in yield
						High	Low	Average		
Paddy	Weed mgt.	Weed mgt through BisperbicSodium @100 ml/acer	PB1 & 1521 & 1509	10	4.00	34.5	32.20	33.00	31.25	5.60

Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
37500	66000	28500	1.75	37500	62500	25000	1.66

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										
Weed Management	--	--	--	--	--	--	--	--	--	--
Resource Conservation Technologies	--	--	--	--	--	--	--	--	--	--
Cropping Systems	1	20	--	20	--	--	--	20	--	20
Crop Diversification	--	--	--	--	--	--	--	--	--	--
Integrated Farming	1	20	--	20	--	--	--	20	--	20
Micro Irrigation/irrigation	--	--	--	--	--	--	--	--	--	--
Seed production	--	--	--	--	--	--	--	--	--	--
Nursery management	--	--	--	--	--	--	--	--	--	--
Integrated Crop Management	2	40	--	40	--	--	--	40	--	40
Total	**4**	**80**	**--**	**80**	**--**	**--**	**--**	**80**	**--**	**80**
X Capacity Building and Group Dynamics	--	--	--	--	--	--	--	--	--	--
Entrepreneurial development of farmers/youths	1	20	--	20	--	--	--	20	--	20
Total	**1**	**20**	**--**	**20**	**--**	**--**	**--**	**20**	**--**	**20**
Grand Total	**5**	**100**	**--**	**100**	**--**	**--**	**--**	**100**	**--**	**100**

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	7	140	--	140	--	--	--	140	--	140
Crop Diversification	2	40	--	40	--	--	--	40	--	40
Integrated Farming	3	60	--	60	--	--	--	60	--	60
Integrated Crop Management	10	200	--	200	--	--	--	200	--	200
Total	**22**	**440**	**--**	**440**	**--**	**--**	**--**	**440**	**--**	**440**
VI Agril. Engineering										
Farm Machinary and its maintenance	3	60	--	60	--	--	--	60	--	60
Repair and maintenance of farm machinery and implements	3	60	--	60	--	--	--	60	--	60
Small scale processing and value addition	--	--	--	--	--	--	--	--	--	--
Post Harvest Technology	2	40	--	40	--	--	--	40	--	40
Others (pl specify)	--	--	--	--	--	--	--	--	--	--
Total	**8**	**160**	**--**	**160**	**--**	**--**	**--**	**160**	**--**	**160**
X Capacity Building and Group Dynamics										
Entrepreneurial development of farmers/youths	1	20	--	20	--	--	--	20	--	20
Total	1	20	--	20	--	--	--	20	--	20
GRAND TOTAL	31	620	--	620	--	--	--	620	--	620

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	8	160	--	160	--	--	--	160	--	160
Crop Diversification	2	40	--	40	--	--	--	40	--	40
Integrated Farming	4	80	--	80	--	--	--	80	--	80
Integrated Crop Management	12	240	--	240	--	--	--	240	--	240
Total	**26**	**620**	**--**	**620**	**--**	**--**	**--**	**620**	**--**	**620**
VI Agril. Engineering										
Farm Machinary and its maintenance	3	60	--	60	--	--	--	60	--	60
Repair and maintenance of farm machinery and implements	3	60	--	60	--	--	--	60	--	60
Post Harvest Technology	2	40	--	40	--	--	--	40	--	40

Total	**8**	**160**	**--**	**160**	**--**	**--**	**--**	**160**	**--**	**160**
X Capacity Building and Group Dynamics										
Entrepreneurial development of farmers/youths	2	40	--	40	--	--	--	40	--	40
Others (pl specify)	2	40	--	40	--	--	--	40	--	40
GRAND TOTAL	**36**	**720**	**--**	**720**	**--**	**--**	**--**	**720**	**--**	**720**

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

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

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

Training programmes for Extension Personnel 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
Productivity enhancement in field crops	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--

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
Productivity enhancement in field crops	**2**	**20**	--	**20**	--	--	--	**20**	--	**20**
Information networking among farmers	**2**	**20**	--	**20**	--	--	--	**20**	--	**20**
TOTAL	**4**	**40**	--	**410**	--	--	--	**40**	--	**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
Information networking among farmers	**2**	**20**	--	**20**	--	--	--	**20**	--	**20**
Capacity building for ICT application	--	--	--	--	--	--	--	--	--	--
Productivity enhancement in field crops	**2**	**20**	--	**20**	--	--	--	**20**	--	**20**
Livestock feed and fodder production	--	--	--	--	--	--	--	--	--	--
Household food security	--	--	--	--	--	--	--	--	--	--
Any other (pl.specify)	--	--	--	--	--	--	--	--	--	--
TOTAL	**4**	**40**	--	**410**	--	--	--	**40**	--	**40**

Table. Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Total	--	--	--	--	--	--	--	--	--	--
Farm machinery	--	--	--	--	--	--	--	--	--	--
Farm machinery, tools and implements	--	--	--	--	--	--	--	--	--	--
Others (pl. specify) CRM	**10**	**500**	--	**500**	--	--	--	**500**	--	**500**
Total	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
Home Science	--	--	--	--	--	--	--	--	--	--
Others (pl. specify) POsan Mah	**1**	--	**60**	**60**	--	--	--	--	**60**	**60**
Total										
GRAND TOTAL	**11**	**500**	**60**	**560**	--	--	--	**500**	**60**	**560**

Name of sponsoring agencies involved

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	350	330	20	350
Diagnostic visits	14	24	2	26
Field Day	05	250	15	255
Group discussions	02	50	--	50
Kisan Ghosthi	08	740	40	780
Film Show /Radio Talk	05	--	--	--
Self -help groups	--	--	--	--
Kisan Mela	04	900	50	950
Exhibition	--	--	--	--
Scientists' visit to farmers field	110	110	--	110
Plant/animal health camps	--	--	--	--
Farm Science Club Meeting	--	--	--	--
Ex-trainees Sammelan	--	--	--	--
Farmers' seminar/workshop	03	150	10	160
Method Demonstrations	--	--	--	--
Celebration of important days	--	--	--	--
Special day celebration	--	--	--	--
Exposure visits	02	100	--	100
Others (pl. specify)	--	--	--	--
Farmers Visit to KVK		720	30	750
Total	**1253**	**3374**	**167**	**3541**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	--
Extension Literature	5999
News paper coverage	01
Popular articles	----
Radio Talks -CRM	06
TV Talks	--
Animal health camps (Number of animals treated)	--
Others (pl. specify)- Book Chapter/Book /Training manual	--

Mobile Advisory Services

No. of KVKs	No. of SMSs sent	No. of farmers benefited
01	10	10

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

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

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
KVK Chitoda, Muzaffarnagar-II (UP)	1. (14.12.2020)

IX. NEWSLETTER : Nil

Name of News letter	No. of Copies printed for distribution
Nil	

X. PUBLICATIONS

Category	Number
Research Paper	06
Technical bulletins	--
Technical reports	03
Abstract	--
Popular Articles	--
Extension literature	05 (10000)
Total	**11**

DETAILS OF PUBLICATION :

Research Papers Published in Journals

Name	Year	Title	*Name ofJournal*
Sanjay Kumar , Sweta Singh, P.K.Singh & B.R.Singh	2020	Issue and Strategies for Rapid Mechanization in Western Zone 0f UP	*Bioved 30(2):181-185*
Sanjay Kumar , Sweta Singh, R.K.Vishwakerma & B.R.Singh	2020	Evaluationg the effect of some revelent parameters on Physicomechanical and aerodynamics properties of Sunflower seed	*New Agriculturist , 30(2): 161-168*
Sanjay Kumar , Sweta Singh, R.K.Vishwakerma & B.R.Singh	2020	Evaluationg the effect of some revelent parameters on Physicomechanical and aerodynamics properties of Sunflower seed	*Bioved 30(2):165-171*
Surendra Kumar & Munendra Singh	2020	Pulses based cropping system is an vible option to enhance productivity in Baghpat district of Uttar Pradesh	New Age International Journal of Agriculture Research and Development , PP- 1-7,
Surendra Kumar, Sarita Joshi	2019	Revolving Stool: A Durgery Reduction Erogonomic Intervention	Journal of Community Mobilization and Sustainable Development Vol 14(2), 325-328

Surendra Singh & Saurabh Sharma	2020	Book Chapter : Advances in Agricultural Extension, Vol-1, Topic : Training Management	Akinic Publication New Delhi

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

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

XIII. DETAILS ON HRD ACTIVITIES :

Workshop/Seminar /Symposia/Winter/Summer School Attended:

Name of Scientist	Name of Programme	Place	Duration	Date
Surendar Kumar	Annual Workshop of KVKs	Online	02	25-27 June 2020
	Mid Term Workshop	SVPUA&T, Meerut	02	25-26 Nov. 2020
Sanjay Kumar	Quality Jaggary Prod. Technique	IISR Lucknow	03	2-4 March 2020
Sanjeev Kumar	Quality Jaggary Prod. Technique	IISR Lucknow	03	2-4 March 2020

XIV. Case Studies/Success Stories : Nil

LINKAGES

Functional linkage with different organization

The KVK has very strong linkage with different line departments and stake holders. The KVK is involved in technical backstopping of the line departments officials and regular participation in the programmes and vice versa. The linkages with stake holders are as under.

Name of Organization	Nature of Linkage
Deptt. of Agriculture	Diagnostic survey, training, gosthi/Seminar/ Farmers Fair
Deptt. of Horticulture	Participation in meeting/demonstration/training/ Farmers Fair
Cane Deptt. & Sugar industries	Gosthies & Trainings
NABARD	Technical Support to Kisan Clubs
Basmati Export Development Foundation	Awareness of rice growers for export
NHM	Soil Testing of beneficiaries, Capacity building & Nursery management
IFFCO, KRIBHCO	Trainings/Gosthi
SBI, PSB PNB & Distt. Cooperative Bank	Trainings/Gosthi & distribution of loan in the operational area
DOMR, Bharatpur Rajasthan	Demonstration/Field Day
Animal Husbandry Deptt.	Trainings & Circulation of Extn. Material
NGO	Trainings/Gosthi

1. Details of linkage with ATMA : Nil

Programme	Nature of Linkages	No of Programmes	No of Farmers
Training of Farmers	Training, Gosthi ,Demo	10	400

2. Linkage with Agriculture Deptt & DSO : Nil

FINANCIAL PERFORMANCE

Details of KVK Bank Account

S. No.	Bank account	Name of Bank	Location	Account Number
1.	With Host Institution	SBI ,SVPUA&T, MZN	Meerut	38303147938
2.	With KVK	SBI Baghra, MZN	Chittora	38260068302

Utilization of K.V.K Funds during the year 2020

S.N.	Heads	Budget Sanctioned (Rs. in lakh)	Actual Expd. (Rs. in lakhs)	Balance (Rs. in lakhs)
A	**Recurring Items**			
1	Pay and Allowance	50.00	23.78	26.22
2	Traveling Allowance	0.50	0.10	0.40
	HRD	0.00	0.00	0.00
3	**Contingencies**			
a	Stationery & other Expenditure for office running			
b	POL/Repair of Vehicle/Tractor			
c	**Vocational Training**			
	i) Meals for trainees			
	ii) Training material			
	iii) Frontline demonstration Except oilseeds & pulses	5.20	2.02	3.18
	iv) On-Farm Testing			
	v) Training of Extension Functionaries			
	vi) Library Maintenance			
	vii) Maintenance building			
	vii) General Contingency			
	Total A	**55.70**	**25.90**	**29.80**
B	**Non-Recurring Items**			
1	Works (Main building)	78.35	0.00	78.35
2	Vehicle	0.00	0.00	0.00
	Total B	78.35	0.00	78.35
	Total (A+B)	**59.80**	**43.59**	**16.30**

XVI 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

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

b) IEC activities organized under CRM Project by KVKs

S. No.	Name of IEC activity	No. of activities	No. of Participants
	Kisan Melas organized	01	240
1.	Awareness programmes conducted at Village Panchayat/ Block/ District Level	06	310
2.	Mobilization of schools and colleges through essay completion, painting, debate etc.	03	270
3.	Demonstration conducted (ha)	--	--
4.	Training Programmes conducted	02	50
5.	Exposure visits organized	02	100
6.	Field /harvest days organized	02	102
	Total	**16**	**1072**

b) Other IEC activities organized under CRM Project by KVKs

S. No.	Name of IEC activity	No. of activities
1.	Advertisement in Print media	02
2.	Column / Articles in newspaper and magazines etc.	03
3.	Hoarding fixed (at Mandi/ Road side/Market/ Schools/ Petrol pump/ Panchayat etc.)	--
4.	Poster/Banner placed	50
5.	Publicity material - leaflets/ pamphlets etc. distributed	10
6.	TV programmes/ panel discussions Doordarshan/ DD-Kisan and other private channels	01
7.	Wall writing	50
	Total	**116**

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