ANNUAL REPORT (January-December 2020)

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	64	1000	280	1280
Rural youths	8	75	35	110
Extension functionaries	15	140	30	170
Sponsored Training	18	512	18	530
Vocational Training				
Total	105	1727	363	2090

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds			
Pulses	125	50.00	
Cereals	39	16.00	
Vegetables			
Flower			
Hybrid crops			
Fruits			
Total	264	66.00	
Livestock & Fisheries	30		55
Other enterprise- H.Sc	20		20
Total	50		75
Grand Total	314	66.00	75

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	5	5	14
Livestock	2	2	20
Other enterprises	1	1	5
Total	8	8	39
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	8	8	39

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	269	6839
Other extension activities	57	667
Total	326	7506

4. Mobile Advisory Services

55 Magazara Turas	Type of Messages						
Message Type	Crop	Livestoc k	Weath er	Marke- ting	Aware- ness	Other enterpris e	Total
Text only							
Voice only	860	140	30	20	70	207	1327
Voice & Text both							
Total Messages	860	140	30	20	70	207	1327
Total farmers Benefitted	860	140	30	20	70	207	1327

5. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)		
Planting material (No.)	8000	2700.00
Bio-Products (kg)	1000 kg	
Honey Processing (Kg)	800 Kg	9600.00
Fishery production (No.)		

6. Soil, water & plant Analysis

Samples No. of Beneficiaries		Value Rs.
Soil- Macro/Micro Nutrient	870	125460.00
Soil Health Card Issued	870	125460.00
Total – Soil Health Card	870	120090.00

7. HRD and Publications

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

PROGRESS REPORT

(January to December 2019)

1. General Information about the KVK

1.1. Name and address of the KVK

Address	Telephone		E-Mail
	Office	FAX	
SWAMI KALYAN DEV KRISHI VIGYAN	0131-2466362		kvkmuzaffarnagar@gmail.com
KENDRA, BAGHRA, DISTT	94110	78115	
MUZAFFARNAGAR (U.P.)			muzaffarnagarkvk@gmail.com
PIN- 251306			

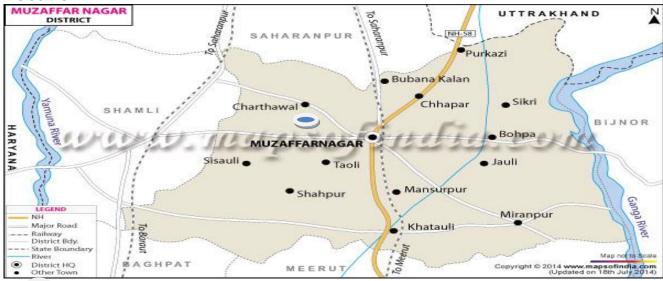
1.2. Name and address of the host organization

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

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 : December 1995 Location



1.5. Staff Position (as on December 2020) :

S. No	Sanctioned Post	Name of incumbent	Designation	Discipline	Pay Scale Present Grade Pay	Date of Joining	Category
1.	Sr. Scientist & Head	Dr. P.K.Singh	Professor & Head	Agronomy	37400-67000 10000	02.02.95	GEN
2.	Training associate/ Asstt Prof./ SMS	Dr. A. K. Katiyar	Professor	Soil Science	37400-67000 10000	16.01.95	OBC
3.	SMS	Dr. Savita Arya	SMS/Asstt. Prof.	H.Sc.	15600-39100 7000	08.03.96	OBC
4.	SMS	Dr. R.C.Rathi	SMS/Asstt. Prof.	Animal Science	15600-39100 8000	09.12.03	OBC
5.	SMS	Dr. Sripal	SMS/Asstt. Prof.	Plant Breeding	15600-39100 6000	01.07.08	OBC
6.	Programme Asstt.	Dr. J.K.Arya	Programme Asstt.	Horticulture	9300-34800 4800	22.12.95	OBC
7.	Computer Programmer	Sh. A.K Singh	Programme Asstt.,Comp	Computer Application	9300-34800 4800	16.10.99	GEN
8	Acctt./ Suptd	Sh. S.K.Dubey	O.S/Acctt.		9300-34800 4200	01.07.92	GEN
9	Stenograph er	Sh. Chandra Shekhar	Typist/ Clerk		5200-20200 2800	29.03.97	GEN
10	Driver	Sh. Vijendra Singh	Driver		5200-20200 2800	22.12.95	OBC
11	Supporting Staff	Sh. Ajesh Sharma	Attendant		4440-7440 2400	16.01.95	GEN
12	do	Sh. Udaiveer	do		4440- 7440 2400	15.01.96	OBC

1.6. Total land with KVK (in ha) : 0.70 ha.

S.No	Item	Area (ha)
1.	Under Building	0.20
2.	Under Demonstration Units	0.50

1.7. Infrastructure Development :

A). Building

S.	Name of the	Source of	Stage			
No.	building	fund		Complete	;	
			Completio n date	Plinth area in Sqm.	Sanctioned budget (Rs)	
1.	Administrative Building	ICAR	March 1998	510 sqm	15.84 lac	
2.	Farmers Hostel	ICAR	31.03.10	300		
3.	Staff Quarters (6)	ICAR	31.03.08	400 sqm	26.71 lac	
4.	Demonstration Unit (2)	ICAR	31.03.08	160 sqm	11.58 lac	

B). Vehicles

Type of Vehicle	Year of Purchase	Cost (Rs.)	Total KMS Run	Present Status
Jeep UP12 S 2012	2009	507000.00	217498 KM	Working
Tractor	1996	261685.00		Working
Bicycle	1995	2390.00		Working
Motorcycle	2010	52000.00	25396 Km	Working
(Hero Honda- UP 12 W 9367)				

DEMONSTRATION UNITS AT KVK



c). Equipments & AV Aids

Name of Equipment	Year of Purchase	Cost (Rs.)	Present
	Fulcilase		Status
Equipments	<u>. </u>		
Weighing Balance with weight	20.05.98	505.00	Working
Sewing Machine	06.02.98	268.00	Working
P.A. Set	30.03.98	6327.00	Working
Water Tank	30.06.97	6200.00	1 Working
Diesel Engine with Alternator	30.03.98	19931.00	Working
Generator	24.03.04	28900.00	Working
Submercible T/Well	31.03.05	35500.00	Working
Soil Testing Laboratory (Furniture, Equipment complete accessories)	2004-05	860000.00	Working
V.C.D.	26.03.04	2450.00	Working
Camera	26.03.04	5800.00	Working
Camera (Digital)	01.02.07	19990.00	Working
Colour T.V.	07.02.04	16990.00	Working
Fax Machine	27.03.04	11000.00	Working
Scanner, C.D. Writer, UPS for Computer	31.03.05	7490.00	Working
Demonstration Material (Digital Poster 10 No., 3 D Models 6	23.03.04	14570.00	Working
No.)			
LCD With Memory Card	30.03.07	68125.00	Working
42 CDs (ICAR Literature)	26.10.05	Provided by	Working
		ICAR	
Farm Implements :			
Harrow	30.03.96	8500.00	Condemn
Tiller	30.03.96	10500.00	Working
Ridger	30.03.96	5700.00	Working
Laveller	30.03.96	9000.00	Working
Ridge Maker	30.03.96	4500.00	Working
Bogi	23.09.97	5025.00	Working
Foot Sprayer (Maruti)	14.03.97	1850.00	Working
Napsake Sprayer (Aspee)	14.03.97	865.00	Working
Jubliee Duster (Aspee)	14.03.97	900.00	Working
Harrow (11 disc)	01.08.03	11500.00	Working
Weighing Machine	06.08.04	2880.00	Working
Trolley	30.11.04	61500.00	Working
Zero Till Ferti Seed Drill	30.03.05	22500.00	Working
Raised- bad- planter	31.03.10	55000.00	Working
Soil Micronutrients unit	31.03.10	2480000.00	Working
Honey Processing Unit	31.03.10	760000.00	Working

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

SI.	Date	Name and Designation	Sailent	Action taken			
No.	44.00.0040	of Participants Recommendation					
1.	11.02.2019	1. Sh. Narendra Kumar, DD Agriculture, MZN					
		2. Sh. Arvind Kumar Sharr					
		3. Dr. Chanderbhanu, Scie		(DULA O.T. NA.			
		4. Dr. D.K.Singh, Assoc. P		•			
		5. Dr. U.P.Sahai, Associate					
		6. Dr. S.K.Tripathi, Associa		eerut			
		7. Sh.Shailendra,DDM, NA	•				
		8. Dr. Harsh Vardhan, VIM					
		9. Dr. J.P.Singh, Joint Dire	_	ı, M∠N			
		10.Sh. Rajkumar gautam,					
		11. Sh. R.K.Dhuria, DGM					
		12. Sh. Arun Kumar, SCCI	•				
		13. Sh. Rajeev Kumar, Ve	· · · · · · · · · · · · · · · · · · ·				
		14.Sh. Vijendra Singh, SP					
		15. Sh. K.P.Saini, Presider					
		16. Sh. Privardhan Pawar,					
		15. Five progressive Farm	ers of Distt & All Scientist	& Staff of KVK			
		Muzaffarnagar					
		Total 36 members	-				
	Salient Recomm	nendations	Action Taken				
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							

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

SI. No.	AES	Characteristics of AES	Major Commodities	Farming System	Blocks
1.	AES-1	More than 95%	S.Cane, Wheat, Rice,	S. Cane based +	Baghra & Sadar
		irrigated, Loam	Jowar, Mango,Guava,	A.H+ Horticulture	
			Litchi , Frenchbean		
2.	AES-2	More than	S.Cane, Wheat, Jowar,	S. Cane based +	Charthawal,
		95%,	Brinjal, Cabbage,	A.H+ Vegetable+	Khatauli
		Sandy Loam	Gladiolus, Tuberose,	Floriculture	
3.	AES-3	Low Water	S. Cane, Wheat,	S. Cane based +	Budhana &
		table area,	Blackgram, Jowar,	A.H + Horticulture	Shahpur
		Loam & Sandy	Mango		
		Loam soil			

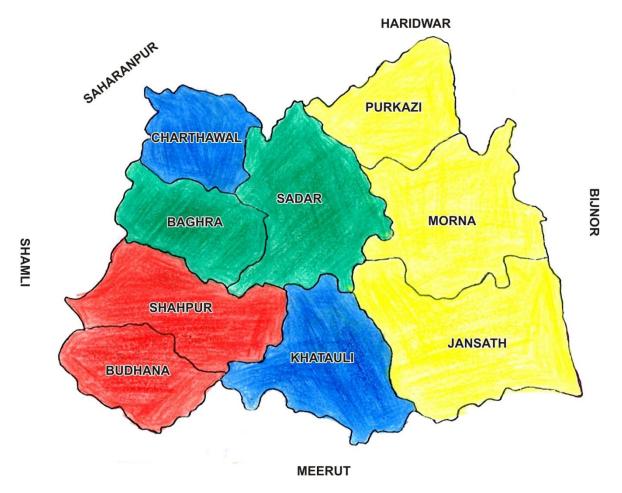
2.3 Soil Type/s

S.No.	Soil Type	Chara	cteristics	Area (ha)
		Soil particle	Water holding	
		Diameter (mm)	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

MUZAFFARNAGAR DISTRICT

(AGRO-ECOLOGICAL WISE MACRONUTRIENT FERTILITY MAP)

Colour	AES	Nitrogen	Phosphorus	Potassium
Yellow	1	Low	Low - medium	Low -
				medium
Green	Ш	Low -	Low - medium	Low -
		medium		medium
Blue	Ш	Low -	Low - medium	Low -
		medium		medium
Red	IV	Low -	Low - medium	Low -
		medium		medium



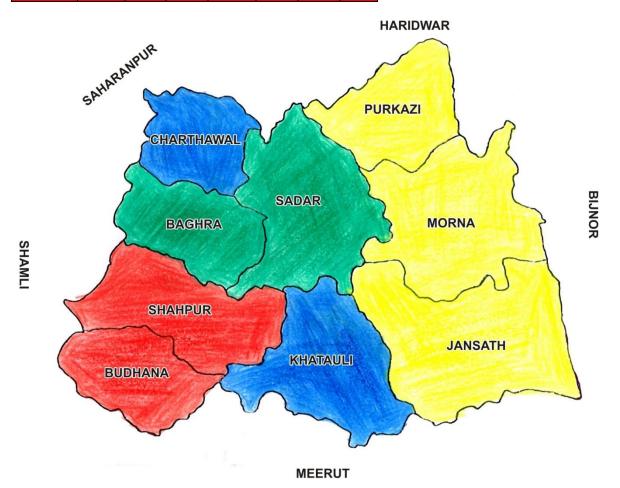
Soil Micronutrient Testing:

Nutrients	Categories		
	Low Mediu Hig		High
		m	
Available N (kg ha ⁻¹⁾	<280	280-560	>560
Available P(kg ha ⁻¹⁾	< 10	10- 25	> 25
Available K (kg ha ⁻¹⁾	< 120	120-280	>280

MUZAFFARNAGAR DISTRICT

(AGRO-ECOLOGICAL WISE MICRONUTRIENT FERTILITY STATUS)

Colour	AES	Per cent deficient samples					
		Zn	Fe	Mn	Cu	В	Мо
Yellow	1	92	82	48	35	10	7
Green	П	89	84	52	38	12	5
Blue	III	95	77	46	33	9	6
Red	IV	97	79	47	36	11	4



Micronutrient Tested	Normal Soil Range (ppm)
Zn	>1.2
Fe	>8.0
Mn	>4.0
Cu	>0.4
В	>0.5
Мо	>0.2

2.4. Area, Production & Productivity of major crops cultivated in the district in 2019-20

S.N	Crop	Area (ha)	Productivity
0			(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				Relative
	(mm)	Maximum	Minimum	Humidity (%)
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
October 2020				
November 2020				
December 2020				

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/	
Indigenous	8478	year	
Goats	20429	5294 mt	180-544 lit/lactation
Pigs			
Crossbred	10543	12012000 kg	
Indigenous	24856	meat	
Rabbits	281		
Poultry			
Hens			
Desi	54502	163589 kg meat	1.0 kg
Improved	109087		
Ducks	1642		
Turkey	19		
Camel	41		

Fisheries

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

2.7 Details of Operation area/ Villages (2020)

S. No.	Taluk	Name of Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust areas
1.	Sadar	Baghra	Narottampur Haidernagar	Sugarcane	Low yield due to imbalance fertilizer	Balance use of fertilizer
				Wheat	Low yield due to high infestation of weeds	Weed management
				Mustard	Poor yield due to aphid infestation	Insect mgt.

				Mango	Poor yield due	Fertilizer
					to no use of micronutrients	management
				Guava	Poor quality yield due to fruit fly infestation	Fruit fly management
				Cauliflower	Poor yield due to use of local variety	Introduction of HYV
				Brinjal	Poor quality of fruits due to foot & shoot borer	IPM
2.	Khatauli	Khatauli	Bhangela	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
3.	Jansath	Jansath	Mantodi	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
4.	Budhana	Budhana Shahpur	Salakhedi Sohjani Tagan	Sugarcane	Low yield of Sugarcane	Introduction of HYV Balance fertilizer application IPNM & IPM

				Mango	Low yield of Mango	IPNM & IPM Rejuvenation of old orchard Introduction of regular bear variety
				Wheat	Low yield	Water management IPM Weed mgt. Introduction of HYV
				Barseem	Low fodder production	Timely sowing Introduction of HYV
5.	Sadar	Charthawal	Rohana kala Dudhali Badhai Kala	Sugarcane	Low yield due to imbalance fertilizer	Balance use of fertilizer
				Wheat	Low yield due to high infestation of weeds	Weed management
				Mustard	Poor yield due to aphid infestation	Insect mgt.
				Makhan Grass	Low fodder production	Introduction of new Fodder

2.8 Priority Thrust Areas.

Crop/Enterprise	Thrust area
Sugarcane	IPNM, SSNM, Weed management, IPM, IDM, Seed production
Wheat	Integrated Nutrient Management, Weed management, IPM, IDM, Seed
	production, Foliar application of Micronutrients
Rice	IPNM, Weed management, Hybrid rice, IPM, IDM, Seed production
Vegetables	IPNM & IPM
Oilseeds & Pulses crop	Sulphur, Zinc application & IPM
Animals	Endo & Ecto parasite control, Improving fertility

- 1. Maintenance of soil productivity through soil test based nutrient management.
- 2. Promoting intercropping modules with Sugarcane
- 3. Popularizing Bio- pesticides for management of insect pests
- 4. Promoting quality floriculture as diversification enterprise for extra income generation.
- 5. Promoting quality vegetable nursery
- 6. Mineral mixture supplementation among animals for improving fertility
- 7. Promoting Group Approach of Extension through Women SHGs and Vallabh Krishak Clubs

2.9 Intervention/ Programmes for the doubling the farmers income – during 2019 Demonstrations

Before	Main crop	Inter crop	Equivalent Cost of		Net	B.C:	Remark if		
Interventions	Yield(q/ha)	Yield(q/ha)	Yield(q/ha)	cultivation(Rs/ha)*	income(Rs/ha)	Ratio	any		
		Intercropping	g System(Kharif-I	Rabi-Zaid) -Livestock etc.					
Sugarcane	Sugarcane 825.00 108373.00 159782.00 2.47:1								

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Intercropping System(k	(harif-Rabi-Zaid)	-Livestock etc.					
Sugarcane +	825.00	8.00	141.58	Main crop 108343.00	151532.00	2.40	Rate of S.
Greengram				Intercrop 18166.00	26434.00		Cane@ Rs. 315/ qt & Green
				Total - 126509.00	177966.00		Gram @ Rs. 5575/- qt
Sugarcane + Blackgram	825.00	7.25	124.28	Main crop – 108343.00	151532.00	2.37	Rate of Urd @ Rs. 5400/- qt
_				Intercrop- 14500.00	21650.00		
				Total - 125843.00	173182.00		
Sugarcane + Lentil	825.00	9.00	121.45	Main crop - 104343.00	151532.00	2.36	Rate of Lentil @ Rs. 4250/- qt
				Intercrop – 17850.00	20400.00		
				Total - 126193.00	171932.00		
Sugarcane + Mustard	825.00	12.00	152.38	Main crop – 108343.00	151532.00	2.35	Rate of Mustard @ Rs. 4000/- qt
				Intercrop- 22560.00	25440.00		
				Total - 130903.00	176972.00		
Sugarcane + Frenchbean	825.00	250.00	793.65	Main crop – 108343.00	151532.00	2.50	Rate of Frenchbean @ Rs. 1000/- qt
				Intercrop – 95150.00	154850.00		13. 1000/- qt
				Total - 203493.00	306382.00		

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

	gy Assessment nement)	FLC		, Pulses, Cot s/Enterprises		ier
•	1	2				
Number	of OFTs	Achieve	nents		Shortfa	II
Targets	Achievement	Crop/Enterp No of Targets pemo./ Farmer			Achievem ent	
12-14	7	Cereals	54	Demo	200	329
		Pulses	125	Area (ha)	100	72
		Oilseeds				20 Unit +
		Fruits				55 Animal
		Other crops				
		H.Sc	20			
		Buffalo/ Cattle	30			
12-14		Total	329			1

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)						Extensi	on Activiti	es
		3					4	
Numb	er of Cou						ber of cipants	
Clientele	Target	Achievem	Targe	Achievem	Targe	Achiev	Targets	Achieve
	S	ent	ts	ent	ts	ement		ment
Farmers	100	64	2000	1280		326	4000	7506
Rural youth		8		110				
Extn.		15		170				
Functionarie								
S								
Sponsored		18		530				
Total:	100	105	2000	2090		326	4000	7506

S	eed Production	(Qtl.)	Planting material (Nos.)			
	5		6			
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers	
200 Q.		Supplied to Beej Vikas Nigam	20000 No.	8000	25	
Total :		•	20000 No.	8000	25	

Soil Samples (Nos.)						
5						
Target	Achievement	No. of farmers	Amount			
1200	870	825	125460.00			
Total :	870	825	125460.00			

Technology Demonstrated and disseminated through Technology Park

Crop	Technology /Variety
Pigeon Pea	I.P.A 203, P.A 1
Mustard	JSH- 401, NRCDR-02, RH-406, DRNIJ-03, RH- 749, NRCHB-101
Blackgram	Kalagarh, Uttra, PU 31, IPU 94-1, IPU 2-4
Maize	Kanchan, Ashwariya & Shipra
Greengram	IPM 2-3, IPM 2-14, Samrat
Fodder	Makkhan Grass, Cow Pea , Hybrid Napiar Grass, Barseem
Potato	Kufari bahar, Kufari Khyati & Kufri Frysona
Garlic	Yamuna Safed-2(G 50),G-189, Yamuna Safed3(G 283), Yamuna Safad4 (G 323)
Onion	Agri found Light Red
Guawa	Medow orchard of Shweta Variety
Banana	G-9
Other	Zero Energy Cool Chamber, Nutritional garden, Herbal garden, Vermi Composting
Technologies	,Shadenet house

TECHNOLOGY PARK



I.A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	rop Name of the technology assessed		No. of
Thematic areas	Стор	Name of the technology assessed	trials	farmers
Varietal Evaluation	Paddy	Evaluation of High Yielding variety of Paddy	1	3
	Wheat	Evaluation of High Yielding variety of Wheat	1	3
		in timely sown Condition		
		Evaluation of High Yielding variety of Wheat	1	3
		in Late sown Condition		
INM	Wheat	Soil Health Card based Nutrient	1	5
		management in Wheat		
Durgery reduction	H.Sc	Assessment of Hanging Shieve for drudgery	1	5
technologies		reduction and efficiency enhancement of farm		
		women		
Total	1		5	19

Summary of technologies assessed under livestock

	Name of the		No.	No. of
Thematic areas	livestock	Name of the technology assessed	of	farmers
	enterprise		trials	
Disease Management	Buffaloes	Assessment of clinical and non-clinical	01	10
		treatment for post-calving anoestrous		
Disease Management	Buffaloes	UMMB feeding to Control of Repeat	01	10
Disease management	Dullaides	breeding in Boffaloes		
Total	1	1	02	20

I.B. TECHNOLOGY REFINEMENT- NII

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

VARIETAL EVALUATION (Rabi 2019-20)

Problem identifinition: 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 PBW 725

Wheat is main crop of distt. Muzaffarnagar. Due to lack of technical knowledge like broadcasting method of sowing and use of old variety, the productivity level is low. An On farm trial was conducted during Rabi 2019-20 at three location to evaluate high yielding variety of Wheat under irrigated condition. The variety PBW 725 recorded highest tillers (222/sqm), spike length (10.6) cm, grains /spike (42.0) , yied (43.20.00 qt/ha) and 1000 grain weight (40.0 gm) which increased 10.48 % yield in comparison to check variety PBW 550. PBW 725 was not affected by Yellow rust. Maximum net return of Rs. 60160 .0 /ha was obtained from PBW 725 followed by Rs. 53267.0/ha from PBW 550.

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-550)	39.10	75267.5	53267.5	3.42
T2- PBW 725	43.20	83160.0	60160.0	3.78

DOS: 18.11.19 DOH 5.4.2020

Observation Recorded:

Technology Option	Tillers/m ²	Spike length (cm)	No of grains/spike	1000 grain weight (gm)	Maturity duration (days)	Yellow rust incidence (%)	Lodging %
T1- Farmers practice (PBW-550)	207	9.0	39.0	38.0	150	3-4	6
T2-PBW 725	222	10.6	42.0	40.0	150	Nil	Nil

Result:

- 1. PBW 725 variety gave highest yield of 43.20 qt/ha with maximum net return Rs. 60160/ha followed by PBW 550 (Rs 53267.00)
- 2. Variety PBW 725 gave 10.48 % more yield in comparison to PBW 550.

Farmers Reaction:

- 1. Due to higher yield farmers like PBW 725
- 2. Variety PBW725 was not affected by yellow rust disease
- 3. There was no lodging seen in PBW 725



VARIETAL EVALUATION (Rabi 2019-20)

Problem identification: Lower productivity and profitability in late sown Wheat

variety PBW 509

Technology Assessed: Introduction of late sown HYV variety of Wheat DBW 90

About 70% of Wheat area in the district is late sown which results in poor productivity. Some of the farmers sow the crop till end of January. PBW 509 and other old varities of wheat covers about 55% area under late sown but these varieties is highly susceptible to yellow rust. An On farm trial was conducted to assess the suitability of newly released variety DBW 90 under late sown condition after Sugarcane crop in irrigated situation. The variety DBW 90 gave highest yield of 38.60 qt/ha with maximum net income of Rs.51305.00 /ha followed by PBW 509. The incidence of yellow rust was recorded 3 % in PBW 509 while DBW 90 did not show any symptom. The 1000 grain weight of DBW 90 was highest i.e 38.00 gm while it was 34.10 gm only in farmers practice.

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 509)	35.40	68145.0	46145.0	3.09
T2- DBW 90	38.60	74305	51305.0	3.23

DOS: 9.12.2019 DOH: 21.4.2020

Observation Recorded

Technology Option	Tillers/m ²	Spike length (cm)	No of grains/ spike	1000 grain weight (gm)	Maturity duration (days)	Yellow rust incidence (%)	Lodging %
T1- Farmers practice (PBW 509)	203	8.0	33.3	34.10	130	3-5	6
T2- DBW 90	210	9.0	37.0	38.00	130	Nil	Nil

Result:

- 1.DBW 90 variety gave maximum yield 38.60 and net return Rs.51305/ha and also proved resistant against yellow rust.
- 2. There was no lodging seen during the crop period..
- 3. Variety DBW 90 gave 9.03 % more yield in comparison to PBW 509

Farmers Reaction:

- 1. The bold grain size of DBW 90 led to better price in the market.
- 2. The straw quality was best.
 - 3. Due to higher protein content of 13.8 % in, farmers preferred it for household consumption.



SOIL HEALTH CARD BASED FERTILIZER APPLICATION IN WHEAT (Rabi 2019-20)

Problem definition: Low yield of wheat due to area specific nutrient deficiency of Sulphur, NPK, and Boron.

Technology Assessed: Nutrient management on soil test basis through foliar and broad cast application in standing crop at different stage of crop growth in late sown Wheat under irrigated farming situation.

Wheat is second major crop of district Muzaffarnagar. It is grown on 82000 ha area of the district under 100% irrigated farming situation. The productivity of wheat in district is 40.50 q/ha. The reduction in yield of wheat is mainly due to area specific nutrient deficiency mainly by sulphur, potash and newly emerging boron. The KVK conducted On Farm Trial (OFT) during Rabi 2019-20 to assess the contribution of nutrients after soil health card based area specific recommendation. The farmers of the district are not using nutrients on soil health card basis.

The families of the district are not using flutherts of soil fleath card basis.						
Technology option	Yield	Gross	Net return	% Yield	BC Ratio	
	q/ha	return	Rs./ha	increase		
		Rs./ha				
T1-Farmers practice (no soil test based						
nutrient management using only 125 kg	42.13	77510	45093.0		2.39	
DAP and 250 kg urea/ hectare)						
T2- FP+ Soil test based apply						
additional Sulphur WDG 5kg+ Boron	49.63	90455	55420 O	15 11	2.62	
1.25 kg Broadcast with Urea and NPK	48.62	89455	55438.0	15.41	2.63	
19:19:19 5 kg per ha applied as foliar.						

Recommendation: Nutrients should be used on the basis of Soil health card after soil test and area specific.

Magnitude of OFT:

- 1. Additional saving Rs. 10345 /ha over to farmers practice.
- 2. Area under wheat can be reduced to 15000 ha with same production of the district.
- 3. District productivity can be increased up to 15.41 percent.
- 4. Additional 6.49 q wheat can be produced by adoption of OFT in Muzaffarnagar district.
- 5. All the experimental site were sown DBW-71 wheat variety. (Note= Demo. Additional input cost Rs.1600/ha, wheat sale price Rs. 1840/g,)



VARIETAL EVALUATION

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

Technology Assessed: Varietal Evaluation of Basmati varieties PB 1718

An On Farm Trial was conducted in sandy loam soil under irrigated condition for the evaluation of high yielding and disease resistant varieties of Pusa Basmati 1718 at three locations in Rice-wheat cropping system during Kharif 2020. The variety Pusa Basmati 1718 recorded highest yield of (43.50 q/ha) . PB 1718 matured in 130-135 days while PB 1 took 145 days for maturity. PB 1718 has Medium tall plants height but found slightly lodging, while 5 -10 % lodging was recorded in PB 1 . PB1718 is resistant for neck blast and leaf blast..

Table: Evaluation of high yielding variety of Paddy

Technology Option	Yield (qt./ha)	% increase in yield	Net income (Rs/ha)	B:C Ratio
T1- Farmers practice - Pusa Basmati 1	38.15		49264.0	2.23
T2- Pusa Basmati 1718	43.50	14.02	61258.0	3.06

Date of Transplanting: 8.07.2020 DOH: 30 Oct. 2020

Observation Recorded:

Technology Option	Tillers/ hill	No of Penicle s /Sqm	Lodgin g %	Disease incidence (%)		Maturity duration (days)	Plant height (cm)	Head Rice Recovery
				Bakane	Sheath Blight			(%)
T1- Farmers practice - Pusa Basmati 1	10-15	240	5	6	13	145	125	43
T2- Pusa Basmati 1718	15-20	265				135	125	45-50

Result:

- 1. The PB 1718 variety gave 14.02 % more yield in comparison to PB 1
- 2. PB 1718 matured in 135 days where as PB 1 took 140-145 days for maturity.
- 3. The net return from PB 1718 was higher (Rs. 61258.0/ha).

Farmers Reaction:

- 1. Due to shorter duration farmers like PB 1718 in comparison to PB1.
- 2. The higher rice recovery was observed (45-50 %)in PB 1718



LIVE STOCK

Problem definition: Higher incidences of post-calving anestrous.

Technology Assessed: Evaluation of clinical and non-clinical treatment for post-calving

anestrous in Buffaloes.

The trial was conducted during December 2019-20 on 10 post calving anestrus buffaloes (buffaloes do not show anestrus between 3-4 months after calving in second to fifth lactation) at six location village wise, to evaluate the remedial measures for curing post calving anestrus.

Table: Effect of minerals mixture+ Vetmate cure/minimize the post-calving anestrous

Technology Option	No. of	Per cent Responded &
	Animals	conceived
T1- Farmers practice (Use of choker and common salt)		
T2- Mineral mixture supplementation @ 50 g//day/ animal for 75 days	5	80 % responded &conceived , 20% neither responded nor conceived,
T3- T ₂ + Vetmate (Gonadotrophin hormone) inj @ 2 ml (72 hrs before AI) after 75 days of calving.	5	100 % responded & 80% conceived, 20% not conceived

Result:

- **1.** In treatment one i.e.T1 which is farmers practice (feeding of choker & common salt), no animal responded or conceived.
- 2. In the treatment T2 i.e. nonclinical remedies (feeding of minerals mixture@ 50gm/day/animal up to 75 days) four buffalo 80% responded (60% i.e. three conceived & 20% i.e. one not conceived) one buffalo neither responded nor conceived.
- 3. In treatment T3 i.e. clinical remedies {feeding of T1 + T2+ inj. Vetmet 2ml (72 hrs before NS/Al) All five buffaloes (100%) responded & four i.e.(80%) conceived but one, not conceived i.e. (20%).

Recommendation:

- 1. Present trial revealed that in T1 the conception rate was 0%, in T2 (nonclinical) 80% responded & conceived, 20 % neither responded nor conceived.
- 2. In T3 (clinical trial) 100% responded and 80 % conceived, 20% not conceived.

Farmers Reaction:

- 1. The A.H. Deptt. should organize regular camps in the villages to tackle anestrous problem.
- 2. The mineral deficiency and poor nutrition is a major problem among animals due to imbalance nutrition/feeding application in buffaloes.
- 3. The anestrous problem is also due to lack of diversity in feed & fodder, monotonous nature of forage (i.e sugarcane tops & Sorghum) & lack of pasture.

LIVE STOCK

Problem definition: Higher incidences of repeat breeding in Buffaloes.

Technology Assessed: UMMB feeding to control repeat breeding in buffaloes.

The trial was conducted during March 2020 on 10 repeat breeder buffaloes (buffaloes show anestrus but not conceive even after 6-7oestrous.) at six location village wise, to evaluate the remedial measures for curing repeat breeding.

Table: Effect of UMMB feeding / licking + Exinot in cure/minimize the incidence of repeat breeding.

Technology Option	No.of Animals	Per cent Responced & conceived
T1- Farmers practice (Use of choker and common		
salt)		
T2- Feeding of UMMB (feeding/licking of UMMB	5	40% buffaloes conceived
@ 2 Kg Block for 15 days/animal up to 90 days)		
T3- T2+ Exinot syp. (before UMMB feeding) in five	5	60% buffaloes conceived
buffaloes.		

Result:

- 1. In treatment one i.e.T1 which is farmers practice (as usual feeding of choker & common salt normally) each buffalo responded but no one conceived.
- In the treatment T2 i.e. feeding of UMMB (feeding/licking of UMMB @ 2 Kg Block for 15 days/animal up to 90 days) five buffaloes. only 40% buffaloes conceived (as per PD result).
- 3. In the treatment T3 i.e. T2+ Exinot syp. (before UMMB feeding) in five buffaloes. 60% buffaloes conceived (as per PD result).
- 4. Besides above results. 25% gained in milk production also observed.

DRUDGERY REDUCTION (May 2020)

Problem definition: High drudgery and low efficiency of farm women during cleaning of wheat by traditional sieve

Technology Assessed: Assessment of hanging Sieve for drudgery reduction and efficiency enhancement of farm women

Women are a vital part of their family, district as well as Indian economy. Over the years, there is a gradual realization of the key role of women in agricultural development and their vital contribution in the field of agriculture, Aside from raising children, women are expected to work in kitchen, maintain the homestead and assist in crop and animal production, 48 per cent of India's self-employed farmers are women, Drudgery can be defined by its time-consuming, repetitive and arduous nature, Pain is the indicator of discomfort. The perceived discomfort was recorded in terms of pain felt in different parts of body. For Many traditional postharvest activities like threshing and winnowing, can be described as drudgery. Cleaning grains manually, use human energy in two ways: they are arduous and time-consuming. Reducing drudgery in difficult activities is more important than saving time. For instance, women often prefer doing activities in standing position as it helps them in moving around.

Technical Observation	Farmers Practice	Hanging Seive	Percentage Increase
Quantity cleaned(kg/Hr)	58 Kg	123 kg	24.1
Heart Rate –at rest (after one hr cleaning)	72 91	72 78	17
Energy Expenditure (0.15xHR-8.72)	0.15x90-8.72=4.78	0.15x78-8.72=2.68	1.8 times more Energy Expenditure in framers practice
Frequency of Postural change	4-5 times		

Farmers Reaction:

- 1 .Easy in use
- 2. Time saving /time efficient
- 3 .Less Fatique
- 4. 100 percent Women liked hanging sieve over hand sieve, as maximum work output was observed by using the hanging grain cleaner.

Average Incidence of musculoskeletal problem during existing and Improved conditions: (N-3)

					. ,					
Body Parts			Existing	Practic	е	Improved Practice				
	5	4	3	2	1	5	4	3	2	1
Neck		3						2	1	
Shoulder Pain		2	1					1	2	
Low Back		3						1	2	
Thighs	2	1						2	1	
Ankels/Feets	1	1	1						2	3

^{*5=}very severe,4=severe,3=moderate ,2= mild , 1= very mild

II CLUSTER FRONTLINE DEMONSTRATION (PULSES)

a. List of technologies demonstrated during previous year (2019-20) and popularized during 2020 and recommended for large scale adoption in the district

S. No.	Thematic Area*	Technology demonstrat	Details of popularization methods suggested to the Extension system	Horiz t		
		ed		No. of villages	No. of farmer	Area in ha
1	Varietal improvement- Lentil	PL 8	Kisan Gosthi, Field & Extension functionaries training	11	105	86.00
2	Varietal Improvement of Gram	RVG 202	Kisan Gosthi, Field, Extension functionaries training & Campaign	9	107	95.00
3.	Varietal improvement – Green gram	Pant mung 5	do	18	186	106.00
4.	Varietal improvement –Black gram	Mash 479	do	23	215	115.00

b. Details of CFLDs implemented during 2020 under NFSM

SI. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No De	Reasons for shortfall in achievement		
						Actual	SC/ST	Others	Total	
	Pulses									
1.	Gram 2019-20	Varietal evaluation	RVG 202	Rabi 2019	10.0	10.0		25	25	
2.	Lentil 2019-20	Varietal evaluation	PL 8	Rabi 2019	10.0	10.0		25	25	
3.	Green gram Zaid 2020	Varietal evaluation	Pant mung 5	Zaid 2020	10.0	10.0		25	25	
4.	Black gram Zaid 2020	Varietal evaluation	MASH 479	Zaid 2020	10.0	10.0		25	25	
5.	Black gram Kharif 2020	Varietal evaluation	MASH 479	Kharif 2020	10.0	10.0		25	25	

c. Details of farming situation

Crop	Seaso	Farmi ng situati on (RF/Irr igated	Soil	Statu	s of s	oil	Previo us crop	Sowin g date	Harve st date	Seaso nal rainfall (mm)	No. of rainy days
Стор	S _e c	Fa ng sitt on con iga	Š ≯	N	Р	K	Pre us crc	So g	Ha st da	Se na rai	nai da
Gram RVG 202	Rabi 2019	Irrigated	Sandy	M	M	L	Paddy	20 Oct – 7 Nov	15-30		
			loam					2019	March 20		
Lentil PL 8	Rabi 2019	Irrigated	Sandy	M	M	L	Paddy	25 Oct -10 Nov	15-30		
			loam					2019	March 20		
Green gram Pant	Zaid 2020	Irrigated	Sandy	M	M	L	Mustard	12-30 march	10 to 30		
Mung 5			loam					2020	May 2020		
Black gram Mash	Zaid 2020	Irrigated	Sandy	M	M	L	Mustard	12-30 march	10 to 20		
479			loam					2020	June 2020		
Black gram Mash	Kharif	Irrigated	Sandy	M	M	L	Paddy	10- 31 July	12 -31 Oct		
479	2020		Loam					2020	2020		
Gram RVG 202	Rabi 2019	Irrigated	Sandy	M	M	L	Paddy	20 Oct – 7 Nov	15-30		
			loam					2019	March 20		

Technical Feedback on the demonstrated technologies

S.No	Feed Back
	Green gram (Pant mung 5)
1	No occurrence of yellow mosaic virus
2	Less vegetative growth than check.
	Blackgram (Mash 479)
1.	No occurrence of yellow mosaic virus
2.	Less vegetative growth than check.
	Lentil (PL 8)
1.	Maturity Stage is 135-140 Days
2.	Low water requirement.
	Gram (RVG 202)
1	No occurrence of wilt
2	Low water Requirement crop

Farmers' reactions on specific technologies

S. No	Feed Back						
	Green gram (Pant Mung 5)						
1	Bold grain size led to better price in the market.						
2	Yield increased 41.81 % in comparison to local variety						
	Blackgram (Mash 479)						
1.	Bold grain size led to better price in the market.						
2.	Yield increased 20.0% in comparison to local variety in Zaid season						
3.	Yield increased 30.0% in comparison to local variety in Kharif season						
	Lentil (PL 8)						
1.	Due to no rain during Nov. & Dec., The crop growth was good.						
2.	25 % of crop damaged by Niel gai						
3.	Yield increased 36.51% in comparison to local variety.						
	Gram (RVG 202)						
1.	Yield increased 28.84% in comparison to local variety.						
2	Due to no rain during Nov. & Dec., The crop growth was good.						
3	No symptom of any disease.						

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days –Green gram	01	40	
2	Field day / Field visit -Black gram	01	38	
3	Field days - Lentil	01	40	
4	Field days -Gram	01	32	
5.	Farmers Training for conducting CFLD	02	50	

Performance of Frontline Demonstrations:

Crop	Thematic	Technology	Variety	No. of	Area	Yield (q/ha)		%	% Economics of demonstration			ation	Economics of check					
	Area	demonstrate		Farme	(ha)					Increas	(Rs./ha)				(Rs./ha)			
		d		rs			Demo		Check	e in	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
						High	Low	Avera		yield	Cost	Return	Return	(R / C)	Cost	Return	Return	(R / C)
								ge										
Lentil Rabi 2019	Promotion of Pulses	HYV seed	PL 8	25	10.0	14.50	10.40	12.45	9.12	36.51	15300.0	59760.0	44460.0	2.9	15000.0	43776.0	28776.0	1.91
Gram Rabi 2019	Varietal evaluation	HYV seed	RVG 202	25	10.0	19.75	17.15	18.45	14.32	28.84	16000.0	89943.0	73943.0	4.62	16500.0	69810.0	53310.0	3.23
Green gram Zaid 2020	Varietal evaluation	Seed , insecticides & fungicides	Pant Mung 5	25	10	8.50	7.10	7.8	5.5	41.81	13600.0	56128.0	42258.8	3.12	13450.0	39578.0	26128.0	1.94
Black gram Zaid 2020	Varietal evaluation	Seed , insecticides & fungicides	Mash 749	25	10.0	9.2	7.0	8.10	6.75	20.0	14000.0	48600.0	34600.0	2.74	13150.0	40500.0	27350.0	2.07
Black gram Kharif 2020	Varietal evaluation	HYV Seed	Mash 749	25	10.0	10.0	7.0	8.5	6.5	30.0	14500.0	51000.0	36500.0	2.51	13850.0	39000.0	25150.0	1.8

Performance of Technology

Traits	Technology	Farmers Practice
Green Gram	Pant Mung 5	Narender Mung 1
Maturity Duration (days)	60-65days	65-70 days
YMV incidence	Nil	4.0percent
1000 grain weight	25-30 gm	22-25 gm
Black gram	Mash 479	Type 9
Maturity Duration (days)	85 -90 days	Above 90 days
YMV incidence	Nil	7.0 %
1000 grain weight	25-30 gm	22-25 gm
Lentil	PL -8	local
Maturity Duration (days)	135 days	Above 135 days
Disease incidence	Nil	3.0 %
1000 grain weight	25-30 gm	22-25 gm
Gram	RVG 202	local
Maturity Duration (days)	140 days	145 days and above
wilt	Nil	6.0 %
1000 grain weight	28-35 gm	25-30 gm

FLD PHOTOGRAPH



CLUSTER FRONTLINE DEMONSTRATION (Oilseeds): Nil

Details of FLD implemented on Cereals & Other Crops:

SI. No	Crop	Thematic area	Technology Demonstrated	Season and year	Area (h	ıa)		f farme onstrati		Reasons for shortfall in achievemen	
					Propose d	Actual	SC/ST	Others	Total]	
A.	Cereals										
1.	Wheat	Varietal (timely sown)	HD 3086	Rabi 2019-20	4.00	4.00		10	10		
2.	Wheat HD- 2967	INM	Soil test based apply additional Sulphur WDG 5kg with Urea and 05 kg NPK 19:19:19 5 per ha applied as foliar F.P (no soil test based nutrient management	Rabi 2019-20	4.00	4.00	1	9	10		
3.	Paddy	Varietal Performance	Variety Pusa Basmati 1637	Kharif 2020	4.00	3.6		9	9		
4.	Paddy (PB-1)	INM	Soil test based apply additional Ferrous sulphate 25 kg/ha basal and 12.5 kg/ha Mono Zinc 33% broadcast along with Urea. F.P: 125 kg DAP and 300 kg urea/ hectare	Kharif 2020	4.00	4.00	1	9	10		

Performance of FLD on Cereals & Other Crops :

				of Area	Yield (q/ha)				%	Other Parameters		
Category & Crop	Thematic		No. of		Demo			Check	Chan			
	Area		Farm ers	Area (ha)	High	Low	Averag e		ge in Yield	Demo	Check	
Cereals	1	1	I.	I.	l	L						
Wheat	Varietal	HD 3086	10	4.0	43.20	37.10	40.15	35.10	14.38	No of Tillers/ sqm 215	No of Tillers/sqm	
										Grains/	207	
										spike-41	Grains/spike-	

										Lodging % - nil	36
											Lodging % -
											3-5
Wheat	INM	HD-2967	10	4.0	48.5	46.2	47.12	42.18	11.73	86700	77602
Paddy	Varietal	PB 1637	9	3.6	43.10	37.70	40.40	33.60	20.23	No of Tillers/hill	No of Tillers/hill
	performance									15-20	12-15
										No of Penicle/sqm	No of
										272	Penicle/sqm
											240
Paddy	INM	Pusa Basmati- 01	10	4.0	42.6	40.4	41.7	36.63	13.96	106424	93394

Economics of Demonstration:

0-1			Economi	cs of demo	nstration (F	Economics of check (Rs./ha)				
& Crop	Thematic Area	Name of the technology	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cereals										
Wheat	Varietal	HD 3086 F.P: PBW 502	23500.0	77288.75	53788.75	3.28	24000	67567.50	43567.50	2.81
Wheat	INM	Soil health card based nutrient application in wheat	34150	86700	52550	2.54	33050	77602	44552	2.35
Paddy	Varietal Performance	Variety Pusa basmati 1637	22000.0	75467.20	53467.20	3.43	21000	62764.80	417648.0	2.98
Paddy	INM	Precision utilization of nutrients as per soil health card in Paddy	36445	106424	69979	2.92	34820	93394	58574	2.68

Farmer's Reaction/Technical Feed back of FLD:

Crop/	Name of Technology	Technical Feedback on Demonstrated	Farmer's Reaction on Technology
Enterprises		technology	
Cereals			
			•
			•
			•
		•	•
			•
			•

FLD PHOTOGRAPH



Demonstrations of Wheat Sponsored by (NFSM) Front Line Demonstration

Crop	Thematic	technology demonstrated	Variety	No. of	Area	Yield (q/ha)			% Increase in yield		
	Area			Farmers	(ha)	Demo Check			Check		
						High Low Average					
										Demo	Check
Wheat	ICM	NRW Vs with Rotavator	HD	10	4.0	48.0	44.5	46.25	40.30	14.76	
			3226								
Wheat	INM	NRW Vs Bio Fertilizer	HPBW	5	2.0	45.3	43.0	44.15	40.10	10.09	
		(Azotobactor + PSB)	01								

	Economics of demons	stration (Rs.)		Economics of check (Rs.)					
Gross	Gross	Net	BCR	Gross	Gross	Net	BCR		
Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)		
23450.0	89031.0	65581.0	3.79	22300.0	77577.0	55277.0	3.47		
23000.0	84988.0	61988.0	3.69	22400.0	77192.0	54792.0	3.44		

Price of grain - Rs. 1925 / qt,

Technical Feedback on Demonstrated technology:

- 1. The crop sown through rotavator was more prone to lodging in comparison to seed drill sowing.
- 2. Both the varieties HD 3226 & HPBW01 performed well in terms of yield in comparison to check varieties.PBW 502 & 590 respectively.

Farmer's Reaction on Technology:

- 1. During month of Feb & March there was unseasonal temperature arise affected all the wheat varieties.
- 2. The Food quality of both the varieties was better than other varieties.

FLD PHOTOGRAPH



FLD on Other Enterprises: Making of Tomato puree/sauce to avoid post harvest losses.

Category	Name of the technology	No. of Farmer	No.of units	Major par	Major parameters		Other	Econo	omics of one (Rs.) or		ration	E	conomic: (Rs.) or	s of che Rs./unit	_	
	demonstrated			Demo	Check	in major paramet er		Check	Gross Cost	Gross Return	Net Retur n	BCR (R/C)	Gross Cost	Gross Return	Net Retur n	BCR (R/C)
Value Addition	Making of Tomato puree/sauce to avoid post harvest losses.	10	10	shelf life of Puree/Sa uce 365days	shelf life of Raw Tomato 2-3 Days		Availability of tomato in preserved form 365 days	Availability of tomato seasonal	120.0	210.0	90.0	2:1	00	00	00	00

Farmers Reaction: Post harvest losses are major concern, especially in fruits and vegetables. To control the post harvest losses and low price of he crop at the time of harvesting, value addition of produce and increasing the shelf life is very beneficial for farmers as well as farm women. Farm women liked this practice very much and saved a good amount.



FLD on Other Enterprise: Kitchen Gardening:

Category and Crop	Themati c area	Name of the technology	No. of Farm	No. of Units	,		% chang	Other par	ameters	E		of demonstra Rs./ha)	tion			nics of check Rs./ha)	
		demonstrate d	er		Demon s ration	Chec k	e in yield	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Kitchen Garden		Kitchen garden Managem ent	10	10	445	20	202	Availabilit y of fresh vegetable s	Very Less Availabili ty	380	1350.00	970.00	33:1	75.00	550.00	475.00	7:1

Farmers Reaction: Farm Women were very happy and general health of family members became better, as the family consumed fresh and organic vegetables in sufficient amount thought out the year. With a little expenditure on seeds and saplings they got vegetables of much more value. Most of the women said they got self satisfaction by growing their own vegetables. Other benefit obtained that neighboring female also got motivated and setup their own kitchen garden.



FLD on Livestock:

Category	Thematic area	Name of the technology		No.of Units (Animal/	Major parameter	S	% change	Other par	ameter	Econom (Rs.)	nics of der	nonstrati	on	Econom (Rs.)	Gross Net		
		demonstrated		Poultry/ Birds, etc)	Demo	Check	in major parameter	Demo	Check	Gross Cost	Gross Return	Net Return	BC R (R/ C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle																	
Buffalo Calf	Disease mgt.	Anthelmintic Banminth @2 tab. / Calf once	15	30	Cured (endo-parasite)		90% cured & survived	10 % mortality	70 % mortality								
CB cow	Disease mgt.	Anthelmintic Exinot @ 30 ml vial once	10	20	Cured (ecto & endo- parasite)		80% Ecto-endo parasite cured	20 % infestation	50 % infestation		ority of ca	attle aga	in inf	fected v	vith ecto	paras	ite.
CB cow	Fodder mgt.	Urea treated wheat straw(65lit water+4kg urea+1qu wheat straw)	05	05	Increased in milk yield		7.72% increased in milk yield	5% concentra te ration reduced	No change in concentr ate feeding	260	780	520	3:1	200	500	300	2.5:1

Farmer's Reaction:

Category	Thematic area	Name of the technology demonstrated	Technical Feedback on Demonstrated Technology	Farmer's Reaction on Demonstrated Technology
Cattle				
Buffalo Calf	Disease mgt.	Anthelmintic Banminth @2 tab. / Calf once	The observations recorded after one month of medication revealed that out of 30 medicated calves 27 no. calves cured & survived .ie.90% & rest died (All three calves were male). No change was found on 25.10.18.	Farmers adopted technology but poor attention to male calf rearing.
CB cow	Disease mgt.	Anthelmintic Exinot @ 30 ml vial once	The observations recorded after one month of medication revealed that out of 20 medicated CB cow, 16 no. were found worm negative i.e.80 % (fecal sample testing based) & ecto parasitic infestation also cured upto 80%.	Cross bred cattle are highly sensitive for ecto parasitic infestation.
CB cow	Fodder mgt.	Urea treated wheat straw(65lit water+4kg urea+1qu wheat straw)	Feeding of treated wheat straw @of 0.50kg per day per animal for ist fifteenth day& than one kg, two kg ,four kg up to 75days.the average gain in milk yield was 7.72%	Farmer's reaction was not positive because the milkman said that the milk is urea added/synthetic.

III. Training Programme

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of					Participan	ts			
	courses		Others			SC/ST			Grand Tot	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Crop Diversification										
Seed production	06	115		115	5		5	120		120
Integrated Crop Management										
Integrated nutrient management										
Total	06	115		115	5		5	120		120
II Horticulture	00	113		113	3		3	120		120
a) Vegetable Crops										
Off season vegetables										
	 								-	
Nursery raising										
Others-	2	36		36	4		4	40		40
b) Ornamentals										
Others	1	18		18	2		2	20		20
e) Tuber crops										
Production and Management technology										
(f)Spices										
Production and management technology	1	17		17	3		3	20		20
GT (a-g)	04	71		71	9		9	80		80
III Soil Health and Fertility										
Management										
Soil fertility management	01	17	-	17	03	-	03	20	-	20
Integrated water management	0.1	10		10	02		02	20		20
Integrated Nutrient Management	01	18	-	18	02	-	02	20	-	20
Production and use of organic inputs Management of Problematic soils										
Micro nutrient deficiency in crops	01	18	_	18	02	-	02	20	_	20
Nutrient Use Efficiency	01	10	_	10	02	_	02	20	_	20
Balance use of fertilizers	01	18	-	18	02	-	02	20	-	20
Total	04	71	-	71	09	-	09	80	-	80
IV Livestock Production and										
Management										
Dairy Management										
Animal Nutrition Management	01	20		20				20		20
Disease Management	03	55		55	05		05	60		60
Fodder & Fodder technology	01	20		20				20		20
Total	05	95		95	05		05	100		100
V Home Science/Women empowerment)3		73	03		03	100		100
I	1	1	1			1				
Household food security by kitchen gardening and nutrition gardening	01		18	18		2	2	20		20
Design and development of										20
low/minimum cost diet										
Designing and development for high	01		10	10		02	02	20		
nutrient efficiency diet	01		18	18		02	02	20		20
Value addition	01		18	18		02	0	20		20
Women empowerment										
Health & Hygiene	01		18	18		02	02	20		20
Women and child care	-	-	-	-	-	-	-	-		
Others (pl specify)	- 04	-	- 72	- 72	-	- 0	- 0	-		
Total GRAND TOTAL	04		72	72		8	8	80		80
GRAND IUIAL	23	352	72	424	28	8	36	460	0	460

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of	Partic	ipants							
	courses	Others	5		SC/ST	•		Grand	Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Seed production	06	112		112	08		08	120		120
Total	06	112		112	08		08	120		120
a) Vegetable Crops	00	112		112	00		00	120		120
Production of low value and high volume crops	2	32		32	8		8	40		40
Off-season vegetables	1	16		16	4		4	20		20
Intercropping										
Export Potensial Vegetables										
Others								20		20
b) Fruits	1	17 		17 	3		3		-	ļ
· · · · · · · · · · · · · · · · · · ·										
Layout and Management of Orchards	3	52		52	8		8	60		60
Cultivation of Fruit	2	36		36	4		4	40		40
f) Spices										
Others (pl specify)- Intercropping	1	17		17	3		3	20		20
GT (a-g)	10	170		170	30		30	200		200
III Soil Health and Fertility										
Management										
Soil fertility management	02	36	-	36	04	-	04	40	-	40
Integrated water management	0.2	26		26	0.4		0.4	40		40
Integrated Nutrient Management	02	36 36	-	36	04	-	04	40	-	40
Micro nutrient deficiency in crops Nutrient Use Efficiency	02	30	-	36	04	-	04	40	-	40
Balance use of fertilizers	02	36	_	36	04	_	04	40	_	40
Total	08	144	_	144	16	_	16	160	_	160
IV Livestock Production and	00	177		177	10	_	10	100		100
Management										
Dairy Management	02	38		38	02		02	40		40
Animal Nutrition Management										+0
Disease Management	04	76		76	04		04	80		80
•										
Feed & fodder technology Total	01 07	20 134		20 134	06		06	20 140		20 140
		134		134	00		00	140		140
V Home Science/Women empowerm	ent			ı	1	1	1		1	1
Household food security by kitchen gardening and nutrition gardening	01		18	18		02	02	20		20
Design and development of	01		10	10		02	02	20		20
low/minimum cost diet	01		18	18		02	02	20		20
Minimization of nutrient loss in	01		18	18		02	02	20		20
processing	"		10	10	ļ	02				
Processing and cooking	0.1		10	1.0	-	00	02	20		20
Gender mainstreaming through SHGs	01		18	18		02	02	20		20
Storage loss minimization techniques Value addition	01 02		18 36	18 36		02 04	02	20 40		20 40
Location specific drudgery reduction										
technologies	02		36	36		4	4	40		40
Food and Hygine	01		18	18		02	02	20		20
Women and child care	-	-	-	-		-	-	-		-
Others (pl specify)	_	-	_	_	-	_	_	_		-
Total	10	-	180	180		20	20	200		200
GRAND TOTAL	41	560	180	740	60	20	80	820	0	820

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

Thematic area	No. of	Particip	oants							
	courses	Others			SC/ST			Grand	Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Crop Diversification										
Seed production	12	227		227	13		13	240		240
Total	12	227		227	13		13	240		240
Il Horticulture	12	221		221	13		13	240		240
a) Vegetable Crops										
Production of low value and high										
volume crops	2	32		32	8		8	40		40
Off Season vegetables	1	16		16	4		4	20		20
Nursery Raising	<u> </u>	10		10	4		4			20
Export potensial vegetables										
Other	3	53		53	7		7	60		60
b) Fruits	3	33		33	,		,	00		00
Layout and Management of										
Orchards	3	52		52	8		8	60		60
Cultivation of Fruit	2	36		36	4		4	40		40
Others		50		30	+		+			
C) spices	2	34		34	6		6	40		40
Ornamental	 	5-7		<i>J</i> -r				-10		
Other	1	18		18	2		2	20		20
GT (a-g)	14	241		241	39		39	280		280
III Soil Health and Fertility	14	241		241	39		39	200		200
Management										
Soil fertility management	03	53		53	07	_	07	60	_	60
Integrated Nutrient Management	03	54	-	54	06	-	06	60	-	60
Micro nutrient deficiency in crops	03	54		54	06	_	06	60	_	60
Nutrient Use Efficiency	0.5	·		51	0.0		- 55			- 50
Balance use of fertilizers	03	54	-	54	06	-	06	60	-	60
Total	12	215	-	215	25	-	25	240	-	240
IV Livestock Production and Mana	gement									•
Dairy Management	02	38		38	02		02	40		40
Animal Nutrition Management	01	20		20				20		20
Disease Management					1					
Others (pl specify) Fodder	07	131		131	09		09	140		140
		4.5								
Production	02	40		40				40		40
Total	12	229		229	11		11	240		240
V Home Science/Women empower	ment	,		ı		1	1		1	1
Household food security by kitchen	2		36	36		4	4	40		40
gardening and nutrition gardening				30		, T		,,,		
Design and development of	1		18	18		2	2	20		20
low/minimum cost diet			-	-	-					
Designing and development for high	1		18	18		2	2	20		20
nutrient efficiency diet Minimization of nutrient loss in										
processing	1		18	18		2	2	20		20
Gender mainstreaming through SHGs	1		18	18		2	2	20		20
Value addition	3		54	54		6	6	60		60
Storage loss minimization techniques	1		18	18		2	2	20		20
200 age 1000 minimization techniques	1		10	10				20		20
Health & Hygine	1		18	18		2	2	20		20
Food & Hygine	1		18	18		2	2	20		20
Location specific drudgery reduction										
technologies	02		32	32		8	8	40		40
Total	14		250	250		30	30	280		280

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

	No. of	No. of	Participa	nts						
Area of training	Cours	Genera	1		SC/S	T		Grand	Total	
	es	Male	Female	Total	Male	Female	Total	Male	Female	Total
Vermi-culture										
Seed Production	01	15		15				15		15
Post Harvest Technology										
Dairying	01	15		15				15		15
Mushroom Prod.										
Nursery raising techniches of cucurbitaceous in low tunnel polyhouse	01	12		12	03		03	15		15
Value addition	01	0	06	06	0	04	04	0	10	10
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Poultry Production										
TOTAL	04	42	06	48	03	04	07	45	10	55

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

Dairying					No	o. of Partic	ipants			
Area of training	No. of		General			SC/ST			Grand Total	
Area or training	Courses	Male	Femal e	Total	Male	Female	Total	Male	Female	Total
Vermi-culture										
Dairying	01	15		15				15		15
Seed Production										
Bee Keeping	01	13		13	02		02	15		15
Rural Crafts	02	0	18	18	00	07	07	0	25	25
Poultry Production	01	14		14	01		01	15		15
TOTAL	04	27	18	45	03	07	10	30	25	55

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

		No. of	Participa	nts						
	No. of	Genera	al .		SC/S1			Grand	Total	
Area of training	Cours es	Male	Femal e	Total	Male	Fema le	Total	Male	Femal e	Total
Vermi-culture/Compost										
Dairying	01	15		15				15		15
Seed Production	01	15		15				15		15
Nursery Raising	01	12		12	03		03	15		15
Bee Keeping	01	13		13	02		02	15		15
Small scale processing										
Value Addition	01	0	06	06	0	04	04	0	10	10
Poultry Production	01	14		14	01		01	15		15
Rural Crafts	02	0	18	18	0	07	07	0	25	25
TOTAL	8	69	24	93	6	11	17	75	35	110

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

Avec of training	No. of	No. of I	Participan	ts						
Area of training	Courses	General			SC/ST			Grand	l Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Others										
Gender mainstreaming through SHGs	01	0	6	6	0	4	4	0	10	10
Women and Child care	02	0	13	13	0	7	7	0	20	20
TOTAL	03	0	19	19	0	11	11	0	30	30

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

		No. of	Participan	ts						
Area of training	No. of	Genera	l		SC/S1	•		Grand 7	Total	
3	Courses	Male	Femal e	Total	Male	Femal e	Total	Male	Fem ale	Total
Productivity enhancement in field crops	04	40		40				40		40
Low cost and nutrient efficient diet designing										
INM	04	57	-	57	03	-	03	60	-	60
House Hold Food Security										
Manegment of mango orchard	04	38		38	2		02	40		40
TOTAL	12	135		135	05		05	140		140

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

		No. of	Participar	nts						
Area of training	No. of	Gener	al		SC/ST			Grand	l Total	
J	Courses	Male	Female	Total	Male	Femal e	Total	Mal e	Femal e	Total
Productivity enhancement in field crops	04	40		40				40		40
INM	04	57	-	57	03	-	03	60	-	60
Livestock feed & Fodder Prod.										
Manegment of mango orchard	04	38		38	2		02	40		40
Gender mainstreaming through SHGs	01	0	6	6	0	4	4	0	10	10
Formation and Management of SHGs										
Women and Child care	02	0	13	13	0	7	7	0	20	20
TOTAL	15	135	19	154	05	11	16	140	30	170

Table. Sponsored training programmes

	No. of Courses No. of Participants									
Area of training		Gene	al		SC/S1	Γ		Grand Total		
		Mal e	Female	Total	Mal e	Fem ale	Tot al	Male	Fem ale	Total
Crop production and management (CRM)										
Increasing production and productivity of crops	04	80	-	80	-	-	-	80	-	80
Production and value addition										
Soil health and fertility management	03	60	-	60	-	-	-	60	-	60
Seed Prod. – PPVFRA, IIWBR	01	45		45	5		5	50		50
Skill Development Training (ASCII)	03	42	15	57		3	3	42	18	60
Training Under ARYA Project	04	75		75	5		5	80		80
Natural Farming	04	180		180	20		20	200		200
GRAND TOTAL	18	482	15	497	30	3	33	512	18	530

TRAINING PHOTOGRAPHS



IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	1321	1200	121	1321
Diagnostic visits	48	200	02	202
Field Day	06	240	06	246
Group discussions	02	70	08	78
Kisan Ghosthi	13	1300	80	1380
Film Show /Radio Talk	05	670		670
Self -help groups	12	194		194
Kisan Mela	02	283	17	300
Exhibition				
Scientists' visit to farmers field	156	921		921
Plant/animal health camps				
Farm Science Club Meeting				
Ex-trainees Sammelan				
Farmers' seminar/workshop	03	120	8	128
Method Demonstrations				
Celebration of important days	06	317	20	337
Special day celebration	02	80	10	90
Exposure visits	02	100		100
Others (pl. specify)				
Farmers Visit to KVK	869	869		869
Total	2447	6564	272	6836

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	
Extension Literature	
News paper coverage	12
Popular articles	
Radio Talks	03
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
KVK Baghra Muzaffarnagar		

EXTENSION ACTIVITIES





RAWE Students Training

Covid Awareness Programme





Exposure Visit

Press Release



Posan Abhiyan Programme



Mission Shakti Programme



Smt. Anandi Ben Patel Hon'ble Governor UP, Visited KVK on 04.03.20



Sh. Lakhan Singh Rajpur, Hon'ble Minister of State Visited KVK on 24.10.20

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

Production of seeds by the KVKs : Nil

Crop	Name of the crop	Name of the	,	of sood	Number of farmers
Cereals					
Fodder Crops					
Total					NSC

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	G 282		8000	2700	25
Total				8000	2700	25

Production of Bio-Products

Bio Products	Name of the bio- product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers				
	Vermi- Compost	1000	Used in Crop Cafeteria	
	Worms	05	Used in Vermi Compost unit	
Total				

Production of Bio-Products: Nil

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers	
BioTroducts	Name of the bio-product	Kg	value (IXS.)	No. or rainiers	
Bio-pesticide					
Total					

Honey Processed

Particulars	Name of the Product	Quantity Kg	Processing Charge @ Rs. 12/ kg	No. of Farmers
Honey Processing	Honey	800	9600.00	06

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	870	825	65	125460
Water	75	45	15	
Total	945	860	80	125460

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
KVK Baghra, Muzaffarnagar (UP)	1. (14.12.2020)

IX. NEWSLETTER : Nil

Name of News letter	No. of Copies printed for distribution	

X. PUBLICATIONS

Category	Number
Research Paper	
Technical bulletins	
Technical reports	
Abstract	
Popular Articles	
Extension literature	
Total	

DETAILS OF PUBLICATION:

Research Papers Published in Journals

Name	Year	Name of Journal		

Abstracts presented in National/International Seminar Seminar

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Item	Title					
TV Talk	Soil Health Card help to increase farmer income – 18.02.2020 DD					
	Kisan Delhi					
Radio Talk	Soil Health & Crop Management – 07.01.20, All India Radio, Nazibabad					
	Importance of happy Seeder in Crop Residue Management – 23.01.20,					
	All India Radio, Nazibabad					
	Importance of Food Security Day- 07 June 2020, All India Radio					
	Rampur					
Technical Reports	Action Plan of KVK 2021,					
	Annual Progress Report 2020,					
	SAC Report 2020					
	NICRA Progress Report 2020 & Action Plan 2021					
	Achievement Report of KVK Rating & Impact Assessment					

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

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	Name of Programme	Place	Durati	Date
Scientist			on	
Dr. P.K.Singh	Brain Storming Session	Baghra	01	03.07.20
	Webinar on Challenging Scenario of	Online	01	28.07.20
	vegetable Production and marketing in			
	Pendimaic period			
	Webinar on Post Pendemic Challenges and	Online	01	14.07.20
	opportunities in Animal health			
	Fonduation Day Programme	Online	01	02.10.20
	Outreach Programme for KVK Farms on	Online	01	07.10.20
	Farm Act			
	Webinar on Paddy Residue Management	Online	01	28.10.20
	Annual Workshop of KVKs	Online	01	25-27 June 20
	NICRA Workshop of KVK	Online	01	9 th June 2020
	Mid term Workshop of KVKs	SVPUA&T	02	25-26 Nov.
		, Meerut		2020
Dr. Anil Katiyar	International Master trainer Workshop and	AMITY	06	10-15 Feb
	Building Capacity to Enhance Farmers	Noida		2020
	Capabilities to Address the challenges of			
	Climate change using Climate smart			
	Agriculture Strategies			
	NICRA Workshop of KVK	Online	01	9 th June 2020
	Post Pendemic Chanllenges and	SVPUA&T	01	14.08.2020
	Opportunities in Animal health	Meerut		
	Microbrone,Immunity and Vaccines	SVPUA&T	01	30.08.20
		Meerut		

XIV. Case Studies/Success Stories Case Study- I

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	Awareness of rice growers for export
Foundation	
NHM	Soil Testing of beneficiaries, Capacity building & Nursery management
IFFCO, KRIBHCO	Trainings/Gosthi
SBI, PSB PNB & Distt.	Trainings/Gosthi & distribution of loan in the operational area
Cooperative Bank	
DOMR, Bharatpur Rajasthan	Demonstration/Field Day
Animal Husbandry Deptt.	Trainings & Circulation of Extn. Material
NGO	Trainings/Gosthi

1. Details of linkage with ATMA : Nil

2. Linkage with NHM

Programme	Nature of Linkages	No of Programmes	No of Farmers
Training of Farmers	Transfer of new Horticultural technology	04	100

3. Linkage with State Govt. (DCO & BSA)

Programme	Nature of Linkages	No of Programmes	No of Farmers
Farmers Training	Transfer of technology		

Performance of instructional farm 2020: Nil

Name of crop	Date of sowing	Date of harvesting	Area (ha)	Details of production		Amount (Rs.)		
-				Variety	Type of produce	Qty.	Cost of inputs	Net income

Utilization	n of Training Hall facilities : Nil		
Months	Name of Deptt.	No. Prog. Conducted	Amount Deposited

Utilization of hostel facilities: Nil

Months	Title of the training course/Purpose of stay	No. of trainees stayed	Trainee days (days stayed)	Amount Deposited

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	30853163857
2.	With KVK	SBI Baghra, MZN	Baghra	11730183435

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)		
Α	Recurring Items					
1	Pay and Allowance					
2	Traveling Allowance					
	HRD					
3	Contingencies					
а	Stationery & other					
	Expenditure for office					
	running					
b	POL/Repair of					
	Vehicle/Tractor					
С	Vocational Training					
	i) Meals for trainees					
	ii) Training material					
	iii) Frontline demonstration					
	Except oilseeds & pulses					
	iv) On-Farm Testing					
	v) Training of Extension					
	Functionaries					
	vi) Library Maintenance					
	vii) Maintenance building					
	vii) General Contingency					
	Total A					
В	Non-Recurring Items					
1	Works (Main building)					
2	Bio Metric Attandence					
	Total B					
	Total (A+B)					

Status of Revolving Fund (Rs. in lakhs)

Ctatae of Neverting Faria (Net in laking)									
Financial	Opening balance	Income	Expenditure	Closing Balance					
year									
2017-18	572977.47	7100053.00	605122.76	677907.71					
2018-19	677907.71	657098.00	255483.54	1079522.17					
2019-20	1079522.17	162010.00	156170.00	1085362.17					

^{*}Rs. 8.00 laks Fixed Deposit, ** Rs, 1 Lac spent on renovation of ADM Building

XVI Achievement of Special programmes

1) Achievement of skill development training funded by DAC&FW

S.	Name of QP/Job role	Duration	No. of	No. of Participants						
No.		(hrs)	Courses	SCs/STs		s Others		Total		TOTAL
			Organised	Male	Female	Male	Female	Male	Female	
1	Agriculture Extension Service Provider	200	01	01	05	02	12	03	17	20
11	Beekeeper	200	01	15		05		20		20
16	Dairy Farmer - Entrepreneur	200	01	18		02		20		20
	TOTAL	600	03	34	05	09	12	43	17	60

2) Activities performed under NARI programme

Activities	Number of activity	No. of farmers/ beneficiaries
OFTs - Nutritional Garden (activity in no. of Unit)	01	10
OFTs - Bio-fortified Crops (activity in no. of Unit)		
OFTs - Value addition (activity in no. of Unit/Enterprise)		
OFTs - Other Enterprises (activity in no. of Unit/Enterprise)		
(activity in no. of Unit/Enterprise)		
FLDs - Nutritional Garden (activity in no. of Unit)	01	10
FLDs - Bio-fortified Crops (activity in no. of Unit)		
FLDs - Value addition (activity in no. of Unit/Enterprise)	01	02
FLD- Other Enterprises (activity in no. of Unit/Enterprise)		
(activity in no. of Unit/Enterprise)		
Trainings	06	120
Extension Activities	04	62
Grand Total	12	204

3) Achievements of Soil, water, plant and manure samples analyzed by KVKs and soil health cards issued

Sample	No. of Samples in lakh	No. of Farmers in lakh	No. of Villages in lakh	Amount realized (Rs. in lakhs)	No. of Soil Health Cards issued (lakhs)
Soil	870	825	65	125460	
Water	75	45	15		870
Plant					670
Manure					
Total	945	870	80	125460.00	870

4) Achievements under NICRA Project

NR	M	Crop pi	roduction	Live	Livestock & Fisheries Capacity Building Extension A		Capacity Building		ctivities	
						No. of	No of		No. of	
Demo	Area (ha)	Demo	Area (ha)	Demo	Area (ha)	animals	Courses	Farmers	programmes	Farmers
215	122	134	53.6	50	3.33		07	140	339	735

5) Achievements under ARYA Project

Name of entrepreneurial units	No. of entrepreneurial units established	No. of Training programs	No. of rural	youth trained	No. of youth established units	
	units established	organised	Male	Female	Male	Female
Poultry	20	02	40		20	
Bee keeping		02	40		14	
Others if any						

6) NEMA (New Extension Methodologies and Approaches)

Name of Crop with variety	No. of districts	No. of Villages selected	No. of Blocks	No. of household selected	
				Adapter household	Non adapter household

XVI Awards

S.No.	Name of Award received	Name of KVK/farmer	Year of Award	Date on which award received

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

