C O N T E N T S

PROFORMA FOR PREPARATION OF ANNUAL REPORT (January-2020-December-2020)

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	74	1060	220	1280
Rural youths	10	93	23	116
Extension functionaries	18	225	45	270
Sponsored	06	168	32	200
Total	**104**	**1586**	**320**	**1906**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	10	4.0	02 Buffaloes
Pulses	50	20.0	Mushroom Unit
Cereals	48	13.6	01 NADEP
Vegetables	20	5.4	01 Vermi Compost
Commercial Crops	27	3.6	01 Honey bee (10 boxes)
Hybrid crops	5	1.0	
Resource Conservation	112	130	
Total	**272**	**177.6**	
Livestock & Fisheries	-	-	
Other enterprises	20	0.10	
Total			
Grand Total	**292**	**177.16**	

3. Technology Assessment

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
Crops	16	48	21
Orchards	03	09	03
Resource Conservation	04	12	06
House hold food security	02	10	05
Total	**25**	**79**	**35**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	662	11466
Other extension activities	76	-
Total	758	11466

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Awar e-ness	Other enterprise	Total
Meerut	Text only	302	8	13	18	48	23	412
	Voice only	1520	23	48	17	430	211	2249
	Voice & Text both	1822	31	61	35	478	234	2661
	Total farmers Benefitted	**1822**	**31**	**61**	**35**	**478**	**234**	**2661**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.	Distributed to No. of farmers
Seed (q) (Wheat)	207.0	398475.00	NSC
Planting material (Onion)	20700	7310.00	22
Livestock Production Fodder	-	76500.00	
Milk Production	671 lit	30195.00	
Mushroom production (No.)	18 Kg	3600.00	46
Vermi Compost	800 Kg.	4000.00	
Wheat Straw	127	45720.00	Auction

7. Soil, water & plant Analysis

Type of Samples	No. of samples analysis	No. of Beneficiaries	Value Rs.
Soil	869		70602
Water	-		-
Plant	-		-
Total	**869**		**70602**

8. HRD and Publications

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

Advisory activities during COVID -19

Name of Discipline	You-Tube				Whatsapp messages sent		Short messages (SMSs) sent		Total	
	No. of vedios	No. of Subscribers	No. of views	Total hrs.	Name of activities	No. of participants	Name of activities	No. of participants	Name of activities	No. of participants
	43	**27415**	**852538**	**60504**						
PP					75	90	20	90	95	180
Agro.					28	245	17	221	45	466
H.Sc					30	157	05	189	35	346
Hort.					127	873	64	676	191	1549
Ag. Engg.					15	675	06	113	21	788
SS					15	435	05	175	20	610
Total	**43**	**27415**	**852538**	**60504**	**290**	**2475**	**117**	**1464**	**407**	**3939**

DETAIL REPORT OF APR (Jan. 2020 to Dec. 2020)

GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Hastinapur, Meerut	01233-280605	01233-280605	meerutkvk@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
SardarVallabhbhai Patel University of Agriculture & Technology, Meerut	0121-2888522, 2888511	0121-2888505, 2888540	deesvpuat2014@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Omvir Singh	09412109215	09412109215	omvirsvp@gmail.com

1.4. Year of sanction: 1992

1.5 Staff Position (as on 31 December, 2020)

SN	Sanctioned post	Name of the incumbent	Design-ation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)	Mobile no.	Email id
1	Professor and Head	Dr. Omvir Singh	Professor and Head	Horticulture	37400-67000	199600	07.01.2004	Permanent	OBC	9412109215	omvirsvp@gmail.com
2	Subject Matter Specialist	Dr. P.S. Tiwari	Professor	Agri. Engg.	37400-67000	167200	01.07.1998	Permanent	Gen	9412311560	drpsteng@gmail.com
3	Subject Matter Specialist	Dr.Rakesh Tiwari	S.M.S/ Asstt. Professor	Soil Science	15600-39000	98200	21.06.2008	Permanent	Gen	9411820189	191rakeshtiwari@ gmail.com
4	Subject Matter Specialist	Smt. VeenaYadav	S.M.S/ Asstt. Professor	Home Science	15600-39000	84800	23.06.2008	Permanent	OBC	9457263482	veenayadav1020@ gmail.com
5	Subject Matter Specialist	Dr. Naveen Chandra	S.M.S/ Asstt. Professor	Entomology	15600-39000	101100	23.06.2008	Permanent	OBC	9450803857	nchandra120@ gmail.com
6	Programme Assistant	Smt. Vibha Sahu	Prog. Assistant	Computer	9300-34800	74300	21.10.1999	Permanent	OBC	9410456174	vibha.sahu1@ gmail.com
7	Programme Assistant	Dr. Ashish Tyagi	Prog. Assistant/ Farm Manager	Plant Protection	9300-34800	50500	22.07.2008	Permanent	Gen	9837474493	green.ashishtyagi@ gmail.com
8	Accountant / Superintendent	Sh Amit Chaudhary	O.S. Cum Accountant	-	9300-34800	66000	10.12.2003	Permanent	OBC	9761444004	amitsvpuat@ gmail.com
9	Stenographer	Sh. M.N.Dimri	Stenographer	-	5200-20200	50500	05.09.2000	Permanent	Gen	9458610511	Dimri @ yahoo .com

10	Driver	Sh. Amrish Sharma	Tractor Driver	-	5200-20200	44100	01.07.1998	Permanent	Gen	9997889985	-
11	Driver	Sh. Upendra Kumar	Jeep Driver	-	5200-20200	31400	02.08.2007	Permanent	OBC	9837194455	-
12	Supporting staff	Sh. Hari Das	Sweeper	-	5200-20200	35300	01.07.1998	Permanent	SC	9760855760	-
13	Supporting staff	Sh. T B Ale	Cook	-	5200-20200	36400	01.07.1998	Permanent	Gen	9997611921	-
14	Other (if any)	Sh. Amar Singh	Field Attended	-	5200-20200	30500	13.12.1999	Permanent	OBC		-

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	2.00
2.	Under Demonstration Units	1.00
3.	Under Crops	5.50
4.	Orchard/Agro-forestry	0.40
5.	Others (specify)	0.30

1.7. Infrastructural Development:

Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	23.05.2009	510	54.88	-	-	-
2.	Farmers Hostel	ICAR	30.06.2007	300	22.92	-	-	-
3.	Staff Quarters (6)	ICAR	30.06.2007	400	26.72	-	-	-
4.	Demonstration Units (2)	ICAR	30.06.2007	160	11.06	-	-	-
5	Fencing	ICAR	30.06.2007	1000	13.77	-	-	-
6	Rain Water harvesting system					-	-	-
7	Threshing floor	ICAR	30.06.2007	300	2.34	-	-	-
8	Farm godown	ICAR	30.06.2007	60	3.63			
	Soil Testing Lab	ICAR	30.05.2006	80	3.20			
		Total	**138.52**					

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2017	5,20,000	200 hours	working
Jeep (Bolero)	2007	5,32,000	194154	Condemn
Motor cycle	1992	28,000	80000	Condemn

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Cultivator	2017	-	working
Disk Harrow	2017	-	working
Rotavator	2017	-	working
Ridge Maker disc type	2017	-	working
Seed dril	1993	-	Non-working

Seed cum fertilizer drill 11 tiyen	1993	-	Non-working
Trolly (Tractor)	1994	-	Working
Paddy Puddler (Cage Wheel)	1994	-	Working
Potato Planter	1998	-	Working
ThresserSonalika	1998	-	Working
Oven	1993	-	Working
LCD Projector	2007	125000	Working
Over Head Projector	1995	12000	Working
TV	1995	18000	Working
Disc Harrow (14 Wheel)	2006	27000	Working
DVD/CD Player	2007	2500	Working
Taka Machine (Chef Cutter)	2008	8700	Working
Computer	2011	20000	Working
Camera Sony	2011	11428	Working
Happy Seeder	2018	129950	Working
Chopper/Shredder/Mulcher	2018	147888	Working
Zero Till Drill	2018	53500	Working
Reversible M B Plough	2018	104950	Working
Cutter cum spreader	2018	51520	Working

1.8. A). **Details of SAC first meeting conducted on 22.12.2020**

A. Details of Participants: **Total No. of Participants: 27**

S. No.	Name of Participants	Designation	Department
1	Dr. Atar Singh	Director	ATARI, Kanpur
2	Dr Sadhna	Sr. Scientist	ATARI, Kanpur
3	Dr Raghvendra	P.S.	ATARI, Kanpur
4	Dr. R.B.Yadav	Prof (Agronomy)	SVPU.A.&T., Meerut
5	Dr. Sunil Malik	Prof (Horticulture)	SVPU.A.&T., Meerut
6	Dr. D.K.Singh	Prof (Animal Science)	SVPU.A.&T., Meerut
7	Dr Ramesh Singh	Associate Prof.(Plant Pathology)	SVPU.A.&T., Meerut
8	Sh. Amit Kumar	Deputy Director (Fisheries)	Deptt. Of Fishries. Meerut
9	Sh R.S. Rathor	DHO, Meerut	DHO, Meerut
10	Sh Ravi Shanker Sharma	DDM, NABARD	NABARD, Meerut
11	Sh Devendra Kumar	Principal Scientist	CPRS, Modipuram, Meerut
12	Sh Kamal Singh Tomar	Farmer	Village- Bilora
13	Sh. Shodan Singh	Farmer	Village – Amhera
14	Sh Sita Ram	Farmer	Village – Amhera
15	Sh. Kanshi Ram	Farmer	Village – Rahmapur
16	Dr Rakesh Kumar	Veterinary Officer	Deptt. Of Animal Husbanry
17	Sh Mohna Devi	Aaganbadi	ICDS
18	Sh Anuradha Sharma	Aaganbadi	ICDS
19	Sh Rukhmani	Aaganbadi	ICDS
20	Dr. Omvir Singh	Professor and Head	Krishi Vigyan Kendra, Meerut
21	Dr. P.S. Tiwari	Professor (Agric. Engg.)	KVK, Hastinapur, Meerut
22	Dr. Rakesh Tiwari	SMS/Asstt. Professor (Soil Sc.)	KVK, Hastinapur, Meerut
23	Smt. Veena Yadav	SMS/Asstt. Professor (Home Sci.)	KVK, Hastinapur
24	Dr. Ashish Tyagi	Prog. Asstt./Farm Manager	KVK, Hastinapur
25	Smt. Vibha Sahu	Programme Assistant (Comp.)	KVK, Hastinapur
26	Sh. Amit Chaudhary	Accountant	KVK, Hastinapur
27	Sh. M.N. Dimri	Steno Cum/ Comp Operator	KVK, Hastinapur

(b) Recommendations of SAC held on December 22, 2020

S.N.	Recommendations
1	Training of nutrient management in Mango orchard should be scheduled in month of September.
3	Wheat Zinc fortified variety may be tested in OFT programmes .
4	Trainings/Titles should be framed according to season/time relevant.
5	PU-31 variety of URD should be taken in programmes.
6	OFT & Demonstration should not conducted on the same topic. It would be conducted separately.
7	Demonstration must be conducted on balance fertilizer 9isease9g to soil test basis.
8	Short duration pulse variety Shekher-2 and mustard variety -0502 can be included in the cluster front line demonstration
9	Womens participation in the training programme must be increases with the cooperation of women scientist.
10	Control of Nematodes in basmati varietiy 1509 & 1121 can increase uptake of zinc and iron therefore yield can be increased
11	Demonstration of kufri neelkanth variety of potato can be organized on the farmer field to increase their production.
12	Location specific Mineral mixture formulated in veterinary college SVPUAT, Meerut may be promoted through KVK activities.

2. DETAILS OF DISTRICT (31st December, 2020)

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

SN	Farming system/enterprise
1	Cropping (Sugarcane- Ratoon –Wheat) + Live Stock
2	Crop Cultivation (Rice-Wheat) + Live Stock
3	Horticulture (Vegetable) + Live Stock
4	Horticulture (Flower) + Live Stock + Cropping

2.2 Description of Agro-climatic Zone & major agro ecological situations

S N	Agro-climatic Zone	Characteristics
1	Western plain zone	1. The zone includes districts of Muzaffarnagar, Meerut, Baghapat, Ghaziabad, Gautam Budh Nagar, Panchsheel Nagar, Bulandshahr and parts of Saharanpur located between the Ganga and Yamuna River and their tributaries. 2. The zone is highly productive with light coloured loam soil. The average annual rainfall is 795 mm. 3. Relative humidity range from 32 to 85% and the temperature ranges from 2.5^0 C to 43^0C. Rice wheat sugarcane based cropping system is prevalent in the zone.

Situation	Soil Type	P^H	Farming system	Major crops	Live stock	Block
AES I	Loam	7.5-8.5	Sugarcane-Ratoon-Wheat, Agro forestry and/or Jower-wheat (2-3 Graded buffalo/1 Cross bread cow)	Sugarcane, wheat, Paddy, potato, vegetable, Jower	Buffalo, cow, Poultry, Sheep & Goat	Mawana, JaniPariksheetgarh, Machhra, Kharkoda, Rajpura, Meerut, Duaralla, Sardhana, Saroorpur, Rohta,
AES II	Loam Sand	7.0-8.0	Sorghum-Potato-Cucurbits and/or Sugarcane-Ratoon-Wheat (2-3 Graded buffalo/ 1 Cross bred cow)	Sugarcane, Potato, Wheat, Mango, Bajra, Jower	Buffalo, cow, Poultry, Sheep & Goat	Hastinapur, Pariksheetgarh, Machhra, Kharkhoda, Jani, Rohta, Saroorpur, Sardhana
AES II	Sandy loam, Silty loam, Clay laom	7.5-7.9	Paddy-wheat and/or Jower-Wheat-Sugarcane –Ratoon-Wheat (2-3 Graded buffalo/ 1 Cross bred cow)	Sugarcane, Paddy, Wheat, Jower, Vegetable	Buffalo, cow, Poultry, Sheep & Goat	Hastinapur, Pariksheetgarh

2.3 Soil type/s

SN	Soil type	Characteristics	Area in ha
1	Sandy loam to loam with normal P^H	The soils have enough clay to store adequate amounts of water and plant nutrients for optimum plant growth. They contain enough silt to hold sufficient available water for plants, to gradually from more clay and to release fresh plant nutrients by weathering. Clay content is not much as to cause poor aeration or to make working with them difficult. A soil containing between 7 to 27% clay and approximately equal amount of silt and sand has a loam texture. Organic content in the soil is 0.3 to 0.4%.	**Total –259000** a) Cultivated Land- 2,00,000 b) Forest area- 21314 c) Horticulture- 2266 d) Other- 35420

2.4. Area, Production and Productivity of major crops cultivated in the district (31st December, 2020)

SN	Crop	Area (ha)	Production (M.Ton)/ha	Productivity (Qtl /ha)
1	Sugarcane	132624	122958363	927.12
2	Wheat	80507	384278	47.73
3	Rice	14.556	43.507	29.57
	Maize	0.214	0.542	25.33
	Barely	145	628	43.31
4	**Oil seed:** Mustard	6006	8403.00	13.99
5	**Pulses**			
	Urd	1.315	1.227	9.33
	Masoor	462	542	11.73
	Gram	12.0	16.0	13.33
	Moong	0.072	0.032	4.44
	Pea	751	1216	16.19
	Arhar	1.172		
6	Millet			
7	Potato			
8	Others (Bajra)	0.018	0.038	21.10

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

Category	Population	Production (Lt/day)	Productivity (Lt/day)
Cattle			
Crossbred	133279	1299470.25	9.75
Indigenous	76049	475306.25	6.25
Buffalo	567070	4820095	8.50
Sheep			
Crossbred	482	771.20	1.60
Indigenous	3490	7852.50	2.25
Goats	44353	66529.50	1.50
Pigs			
Crossbred	8947	--	--
Indigenous	12388	--	--
Poultry (Egg)			
Hens	85565	--	273 egg/year
Desi	--	--	79 egg/year
Improved (Dual Purpose)	--	--	167 egg/year
Turkey and others	2483		
Category	**Area**	**Production**	**Productivity**
Inland	--	--	33.00 q/ha

2.6 Weather data (31st December, 2020)-

month	T max	T min	Rh1	Rh2	WS	WD	BSS	Rainfall
Jan-20	18.07	8.68	93.78	72.99	8.76	220.65	4.05	44.00
Feb-20	22.84	10.28	93.88	51.11	2.18	191.55	7.68	19.80
Mar-20	27.41	14.02	92.79	49.85	16.53	258.39	7.59	53.30
Apr-20	34.83	19.41	58.73	27.64	2.79	198.75	9.43	7.50
May-20	37.71	21.67	64.23	35.75	4.35	242.42	9.27	72.10
Jun-20	35.79	25.73	74.20	54.90	5.13	229.50	9.00	17.80
Jul-20	34.02	25.70	82.94	69.45	4.33	214.10	6.06	228.80
Aug-20	33.24	25.44	85.55	73.97	3.90	198.81	4.84	148.20
Sep-20	35.10	26.43	78.73	58.30	2.45	248.82	8.01	9.40
Oct-20	33.75	18.99	83.74	49.48	1.79	225.84	8.26	0.00
Nov-20	27.17	10.29	83.23	47.53	4.77	271.40	7.22	2.70
Dec-20	22.23	6.32	87.52	49.90	3.16	209.35	5.54	6.10

2.7 Details of Operational area villages 31st December, 2020

SN	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	**Meerut**	Kharkhoda	Piplikhera, Kelli, Gheza, KankerKhera, Ataula, Khandawali, Jhinjharpur, Nirpura	Sorghum, Potato Wheat, Mustard Livestock production	• Late sowing of sugarcane • Low production of milk in Cow and Buffaloes	• Intercropping with sugarcane • Soil health management • Management of

				(2-3-Graded buffalo / 1-Crossbred cow)	• Deficiency of miner elements and organic matter in soils • Attack of white grub in sugarcane • Reducing production area of pulses due to blue horse. • Red rot and grassy shoot in sugarcane • No use of Potash and micro elements in crops • Low production of old orchards • Unorganized marketing system of agriculture produce • Long dry period and infertility in milch animals • Weed infestation in wheat. • Depletion of ground water • Insect attack in vegetables	infertility and repeat heat in Cattle and Buffaloes • Weed management in Paddy and Wheat • Balance use of fertilizer • Crop residues management • Pest management in Paddy and Sugarcane • Disease management in vegetable crops. • Promotion of Oilseed and Pulses crops. • Crop productivity enhancement in late sown wheat. • Nutritional management among farm women and children • Introduction of HYV/Hybrids in vegetables. • Promotion of green manuring. • Managements of Mango orchards.
		Rajpura	Salarpur, Muzaffarpur Saini, Rajpura, Morna, Kastla, Mameypur, Incholi, Kaserukhera	Sugarcane, Pigeon pea, Potato & Wheat		
		Daurala	Nihori, Lawad, Mahalka, Macchri, Rasoolpur, Walidpur, Panvari, Meetheypur, Andawali, Eloi, Daurala, Rassolpur	Vegetables, Sugarcane, Wheat Mustard,		
		Meerut	Chandsara, Alipur, Gagol, Phafunda, Fatehullahpur, Noornagar, TarapuriRasidnagar	S/cane, Urd, Rice Wheat		
	Sardhana	Sardhana	Mahadev, Kushawli, Begumabad, Nahli, Pali	S/cane, Wheat, Vegetables, Flower	• Late sowing of sugarcane • Low production of milk in Cow and Buffaloes • Deficiency of miner elements and organic matter in soils • Attack of white grub in sugarcane • Reducing production area of pulses due to blue horse. • Red rot and grassy shoot in sugarcane • No use of Potash and micro elements in crops	• Intercropping with sugarcane • Soil health management • Management of infertility and repeat heat in Cattle and Buffaloes • Weed management in Paddy and Wheat • Balance use of fertilizer • Crop residues management • Pest management in Paddy and Sugarcane • Disease management in vegetable crops.
		Suroorpur	Pawarsa, Ikdri, PanchiBuzurg	-do-		
		Rohta	Rohata, Arnavali, Rasana, Shahapur jain pur,	S/cane, wheat		
		Jani	Baffar, Meerpur, MohammadpurDhumi, Khumbha, SiwalKhas, NaglaKumbha, Bhola Ki Jhal	S/cane, wheat, mustard, paddy &Urd		

2					• Low production of old orchards • Unorganized marketing system of agriculture produce • Long dry period and infertility in milch animals • Weed infestation in wheat. • Depletion of ground water • Insect attack in vegetables	• Promotion of Oilseed and Pulses crops. • Crop productivity enhancement in late sown wheat. • Nutritional management among farm women and children • Introduction of HYV/Hybrids in vegetables. • Promotion of green manuring. • Mngt.of Mango orchards.
3	**Mawana**	Hastinapur	Jhal Ganeshpur, Saifpur MeewaMammudpur Latiffpur, Makannagar Pali, Naglagusai, Rani nagla, Matora, BasturaNarang, Nagala Chand, Sikhera, RathoraKhurd, JoraJalapur, Seena, Tajpura, More Khurd, Rampur Ghoria, MohammadpurSikhast, Nagli, Karimpur, Bhadrakali, Behsuma, Tarapur, Pandwan, Makhdoompur, KundaChetawala, BamnoliBadahuakheri, Latifpur, Bheemkhund	Sugarcane, Wheat Rice, potato, Mustard, Chickpea, Urd, Moong	• Late sowing of sugarcane • Low production of milk in Cow and Buffaloes • Deficiency of miner elements and organic matter in soils • Attack of white grub in sugarcane • Reducing production area of pulses due to blue horse. • Red rot and grassy shoot in sugarcane • No use of Potash and micro elements in crops • Low production of old orchards • Unorganized marketing system of agriculture produce • Long dry period and	• Intercropping with sugarcane • Soil health management • Management of infertility and repeat heat in Cattle and Buffaloes • Weed management in Paddy and Wheat • Balance use of fertilizer • Crop residues management • Pest management in Paddy and Sugarcane • Disease management in vegetable crops. • Promotion of Oilseed and Pulses crops. • Crop productivity enhancement in late sown wheat. • Nutritional
		Parikshitgarh	Geshupur, Bonda, Kalirampur, Neemka, Khajuri, Dhanpura, Jithola, Anwarpur, Kohla	Sugarcane, Wheat Rice, potato, Mustard, Chickpea, Urd, Moong		

		Mawana Kala	Meewa, Assa, Matoura, Tatina, Niloha, Pilona, Baizadka, Kunda, AkbarpurGhari, Bhaisa, Nidawali, Tigri, Geshupur, Sirjepur, Meerpur, AkbarpurShadat, Mubareekpur, NagalaAjedi, NagalaHareur, Phalawada, ChotaMawana,	Sugarcane, Wheat Rice, potato, Mustard, Chickpea, Urd, Moong	infertility in milch animals • Weed infestation in wheat. • Depletion of ground water • Insect attack in vegetables • Late sowing of sugarcane • Low production of milk in Cow and Buffaloes • Deficiency of miner elements and organic matter in soils • Attack of white grub in sugarcane • Reducing production area of pulses due to blue horse. • Red rot and grassy shoot in sugarcane • No use of Potash and micro elements in crops • Low production of old orchards • Unorganized marketing system of agriculture produce • Long dry period and infertility in milch animals • Weed infestation in wheat. • Depletion of ground water	management among farm women and children • Introduction of HYV/Hybrids in vegetables. • Promotion of green manuring. • Managements of Mango orchards. • Intercropping with sugarcane • Soil health management • Management of infertility and repeat heat in Cattle and Buffaloes • Weed management in Paddy and Wheat • Balance use of fertilizer • Crop residues management • Pest management in Paddy and Sugarcane • Disease management in vegetable crops. • Promotion of Oilseed and Pulses crops. • Crop productivity enhancement in late sown wheat. • Nutritional management among farm women and children
		Machara	MaukhasHasanpur, Kaili Rampur, Dabthala, Behlolpur, Shahjahanpur,	Crops, Vegetables, Bee keeping		

Priority Thrust Areas

S N	Crop/Enterprise	Thrust area
1	Doubling farmers income	Intercropping with winter planting sugarcane.
2	Mango orchards	Pruning, Training and rejuvenation of orchards.
3	Pulses	Promotions of pulses as intercrop with sugarcane and integrated diseases management.
4	Wheat, Paddy, Sugarcane	Improving soil health through balance fertilization and green manuring.
5	Vegetable Crop	Enhancement of production potential in vegetable and IPM in vegetable.
6	Nutritional security	Malnutrition among rural masses specially belonging to lower strata of the society.
7	Soil Health Management	Soil testing based fertilizer application and crop residue management
8	Resource Conservation	Judicious use and saving of water in agriculture

2.9 Intervention/ Programmes for the doubling the farmers income – during –(Jan 2020-Dec. 2020)

Before Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent Yield(q/ha)	Cost of cultivation(Rs/ha)*	Gross Cost (Rs/ha)	Net income(Rs/ha)	B.C: Ratio
Sugarcane (Co-238) as Sole crop	935.0	-	-	86500.00	294525.00	208025.00	1:3.40

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) * Sale price Rs.315/-

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Gross Cost (Rs/ha)	Net income(Rs/ha)	B.C: Ratio
Intercropping (Garden Pea- Pusa Pragati with October sown sugarcane 1:1)	915.0	93.15	1506.42	118100.00	474525.0	356425.00	1:4.01

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) * Sale price Rs. 2000/-

Before Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Gross Cost (Rs/ha)	Net income(Rs/ha)	B.C: Ratio
Sugarcane(Co-238) as Sole crop	923.0	-	-	88200.00	290745.00	202545.00	1:3.29

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) * Sale price Rs. 315/-

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Gross Cost (Rs/ha)	Net income(Rs/ha)	B.C: Ratio
Intercropping (Garlic – Yamuna Safed with October sown sugarcane1:2)	895.0	131.53	1730.11	162600.00	544984.00	382384.00	1:3.35

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) * Sale price Rs. 2000/-

Before Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Gross Cost (Rs/ha)	Net income(Rs/ ha)	B.C: Ratio
Sugarcane (Co-238) as Sole crop	941.0	-	-	89500.00	296415.00	206915.00	1:3.31

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) * Sale price Rs. 315/-

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Gross Cost (Rs/ha)	Net income(Rs/ ha)	B.C: Ratio
Intercropping (Potato-Kufri Frisona with October sown sugarcane1:2)	912.0	251.70	1947.87	246000.00	613589.00	367580.00	1:2.49

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) * Sale price Rs 1300/-

TECHNICAL ACHIEVEMENTS

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		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
12	12	62	41	-	180.30	200	327

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	74	2000	1315	500	662	5000	11466
Rural youth		10		777				
Extn. Functionaries		18		240				
Sponsored		06		168				
		131		**2332**				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	207	-	20000	24500	-

Soil/plant/water Analysis		
5		
Target	Achievement	No. of farmers covered
1200	869	869

TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Crop Management	Urd	Assessment of intercropping of URD in Sugarcane.	06	03
	Mustard	Assessment of intercropping of Mustard in Sugarcane.	06	03
Integrated Nutrient Management	Wheat	Assessment of fertilizer dose in Wheat.	06	03
	Paddy	Assessment of fertilizer dose in Paddy.	06	03
Varietal Evaluation	Tomato	Assessment of Hybrid varieties of Tomato.	09	03
Integrated Crop Management	Mango	Assessment of Canopy Management in Mango orchard.	09	03
Integrated Pest Management	Paddy	Assessment of fungicides to control sheath blight.	06	03
	Black Gram	Assessment of insecticides to control white fly in Black Gram.	06	03
Resource Conservation Technology	Sugarcane	Assessment of Ttrench Planting techniques of Sugarcane	04	04
	Wheat	Assessment of effect of wheat sowing after in Situ crop residue management.	04	04
Nutrition security	Vegetable	Assessment of household food security through nutritional garden	02	05
Total			**64**	**37**

I.C. TECHNOLOGY ASSESSMENT IN DETAIL

INTEGRATED CROP MANAGEMENT

On Farm Trial –1

THEMATIC AREA: ICM

Problem definition: Low yield of Sugarcane as single crop.

Technology Assessed: Assessment of intercropping of Urd in summer planted Sugarcane.

To assess the performance of intercropping of Urd in Sugarcane. An On Farm Trial was conducted with two treatment as sugarcane as a sole crop and Urd as intercrop with sugarcane. By this time both crop have been harvested sole crop of Sugarcane gave Rs. 193895 net profit and 3.59 B.C. Ratio while total system of intercropping gave Rs. 243960 net profit with 3.32 B.C ratio. Overall observation system is more profitable.

Table: Performance of Intercropping Sugarcane in Urd

Technology Option	No. of trials	Equivalent Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross income (Rs)	Net returns (Rs)	BC ratio (Rs)
T_1: Farmer Practice (Single crop, Co-238)	06	853.0	-	74800.00	268695.00	193895.00	1:3.59
$T_{2:}$ Sugarcane(Summer) + Urd (PU-31)		1108.11	-	105094.00	349054.00	243960.00	1:3.32

Sale rate 5600 @/Q.

On Farm Trial –2

THEMATIC AREA: ICM

Problem definition: Low income
Technology Assessed: Assessment of profitability under intercropping of mustard in Sugarcane.

To assess the performance of intercropping of Mustard in Sugarcane. An On Farm Trial was conducted with two treatment as sugarcane as a sole crop and mustard as intercrop with sugarcane. By this time both crop have been harvested sole crop of Sugarcane gave Rs. 199645 net profit and 3.04 B.C. Ratio while total system of intercropping gave Rs. 262335 net profit with 3.21 B.C rati. Overall observation system is more profitable.

Table: Performance of **Intercropping Sugarcane in Mustard**

Technology Option	No. of trials	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross income (Rs)	Net returns (Rs)	BC ratio (Rs)
T_1: Farmer Practice (Single crop, Co-238)	06	943.0		97400.00	297045.00	199645.0	1:3.04
$T_{2:}$ Sugarcane(Autumn) + Mustard (RH-749)		1209.0	28.20	118500.00	380835.0	262335.00	1:3.21

Sale rate of mustard : Rs. 5000/Qt.

Feed Back: It is expected that the production of mustard will be the extra without any adverse effect on productivity of sugarcane.

On Farm Trial –3

THEMATIC AREA: INTEGRATED NUTRIENT MANAGEMENT

Problem definition: Imbalanced use of Fertilizer in late sown wheat.

Technology assessed: Assessment of fertilizer dose in Wheat on the basis of soil testing.

Technology Option	No. of trials	Yield q./ha	% age increased	Cost of Cultivation (Rs./ha)	Gross Return (Rs)	Net Return (Rs)	B:C Ratio
T_1- Farmer practices (Imbalance use of fertilizers N:P:K 150:60:0:40)	06	42.58	-	48271	81966	33695	1:1.70
T_2-N:P:K:Zn:S:Fe@ N,P,K, Zn & S- 120:60:40:30 & 25 kg/ha.)		46.80	11.03	49507	90090	40583	1:1.82

Variety DBW-173 Sale price Wheat @ Rs. 1925 /qt

Feed back: *It is difficult for farmer of interior location to reach the soil testing laboratory***.**

Farmers Name	pH	EC	OC %	P2O5	K2O	S	Zn	B	Fe	Mn	Cu
Kanshi Ram	7.58	0.27	0.28	12.9	140	5.9	0.38	0.59	1.2	4.9	5.7
Amresh	7.55	0.22	0.31	20.4	135	4.8	0.35	0.57	1.1	5.1	5.2
Elamchand	7.70	0.28	0.34	15.9	130	4.5	0.42	0.58	1.4	4.7	5.1

Soil Status Nitrozen- Low, fertilizer based- 210 Kg/ha.
Phosporus – Low, 132 Kg/ Ha
Potash- Medium, 68 Kg/ha.
Sulphur- 40 Kg/ha.
Zinc(21 %)- 30 Kg/ha.
Ferrous- 25 Kg/ha.

On Farm Trial –4

THEMATIC AREA: INTEGRATED NUTRIENT MANAGEMENT

Problem definition: Imbalanced use of Fertilizer in Paddy.

Technology assessed: Assessment of fertilizer dose in Paddy on the basis of soil testing.

Technology Option	No. of trials	Yield q./ha	% age increased	Cost of Cultivation (Rs./ha)	Gross Return (Rs)	Net Return (Rs)	B:C Ratio
T_1- Farmer practices (Imbalance use of fertilizers N:P:K 150:75:0:40)	06	40.10	-	49271	100250	50979	1:2.03
T_2-N:P:K:Zn:S:Fe@ N,P,K, Zn & S- 120:60:60:40:25 & 25 kg/ha.)		46.25	15.34	50406	115625	65219	1:2.29

Variety Pusa- 1121 Sale price Paddy @ Rs. 2500 /qt

Feed back: *It is difficult for farmer of interior location to reach the soil testing laboratory.*

Farmers Name	pH	EC	OC %	P2O5	K2O	S	Zn	B	Fe	Mn	Cu
Kartar Singh	7.50	0.29	0.31	14.4	120	1.9	0.48	0.51	1.0	4.9	5.1
Anuj	7.60	0.27	0.35	15.3	118	4.8	0.30	0.55	1.1	5.4	4.9
Subhash	7.55	0.25	0.29	18.2	125	3.7	0.29	0.54	1.4	5.6	5.4

Soil Status Nitrozen- Low, fertilizer based- 210 Kg/ha.
Phosporus – Low, 132 Kg/ Ha
Potash- Medium, 102 Kg/ha.
Sulphur- 40 Kg/ha.
Zinc(21 %)- 25 Kg/ha.
Ferrous- 25 Kg/ha.

On Farm Trial –5

THEMATIC AREA: Varietal Evaluation

Problem definition: Low yield of tomato due to use of traditional varieties.

Technology Assessed: Assessment of Hybrid varieties of Tomato.

To assess the performance of hybrid varieties of tomato On Farm Trial was conducted to with 02 varieties of tomato under field condition. Data collected revealed that Pusa Hybrid- 2 was adjudged as better performer with 325.80 qt. production and Rs. 256900 net profit per ha. While other varietiy Raja produced 256.5 qt. per ha. Respectively.

Table: Performance of different Hybrid varieties of Tomato.

Technology Option	No. of trials	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross income (Rs)	Net returns (Rs)	BC ratio (Rs)
T_1: Farmer Practice (Variety – Raja)	06	256.50	-	58500	256500	198000	1:4.38
$T_{2:}$ Variety – Tomato Pusa Hybrid – 2		325.80	27.0	68900	325800	256900	1:4.72

Sale price of tomato: Rs. 1000/ .

Feed Back: *Fruits of variety Tomato Pusa Hybrid-2 is medium in size, round, deep red after ripening with good keeping quality. It is suitable for processing and distance market.*

On Farm Trial –6

THEMATIC AREA: Farm Management

Problem definition: Canopy Management in of Mango.

Technology Assessed: Assessment of pruning techniques in old orchard of Mango.

KVK hastinapur has conducted On Farm Trial to assess the pruning tec hnology in Mangos , 10 trees were taken in each treatment, center opening sustem in 40 year old orchard was found better with Rs. 143300 net profit and 4.10 B.C Ratio in comparison to zero pruing system. In which farmer brought Rs only 121000 net profit and 3.91 B.C. ratio.

Table: Canopy Management in of Mango

Technology Option	No. of trials	Yield Eqi. (q./ha)	Cost of Cultivation	Gross Return (Rs)	Net Returns (Rs./ha)	B:C Ratio
T_1- Zero pruning (Farmer Practice)	09	65.0	41500.00	162500.00	121000.00	1:3.91
T_2- Centre pruning management		75.8	46200.00	189500.00	143300.00	1:4.10
T_3- Light or Sight pruning management		69.2	43250.00	173000.00	129750.00	1:4.0

Sale price of mango: Rs. 2500/-

Feed Back In Mango orchard they are more suitable at centre pruning because the canopy rise above the sun and the wind blow the top is that more yield and better quality of fruit.

On Farm Trial –7

THEMATIC AREA: INTEGRATED PEST MANAGEMENT

Problem definition: Low yield due to severe infestation of Sheath blight in Paddy (Pusa-1121).

Technology assessed: Assessment of fungicide to control sheath blight in Paddy.

KVK Hastinapur (Meerut) has conducted "On Farm Trial" entitled Assessment of fungicide to control sheath blight in Paddy(Pusa-1121) by comparing fungicides Pencycuron @ 800 ml/ha and Azoxystrobin @ 800 ml/ha 15 days interval with Carbendazim @ 1000 g/ha as farmer practice, two sprays at 15 days interval. An appraisal of data collected, Azoxystrobin has quite edge over other fungicide the being used as farmer's practice in terms of disease incidence.

Table: Effectiveness, yield and economic parameters of different treatments for the management of Sheath blight in Paddy

Technology Option	No. of trials	Insect incidence (%)	Yield q./ha	% age increased	Cost of Cultivation	Gross Return (Rs)	Net Return (Rs)	B:C Ratio
T_1- Two Spray of Carbendazim @ 1000 g/ha 15 days interval	09	13.60	39.0	-	37400	93600	56200	1:2.50
T_2- Two Spray of Pencycuron @ 800 ml/ha 15 days interval		8.50	45.15	15.76	37720	108360	70640	1:2.87
T3- Two Spray of Azoxystrobin @ 800 ml/ha 15 days interval		7.60	46.20	18.46	39300	110880	71580	1:2.82

Sale price of Paddy: Rs 2400/qt.

Farmers Feedback: Azoxystrobin *is more effective but expensive in respect of net profit application of* Pencycuron *is cheeper and more profitable however both chemical are significantly effective*

On Farm Trial –8

THEMATIC AREA: INTEGRATED DIESEASES MANAGEMENT

Problem definition: High infestation of white fly resulting mosaic disease in Black Gram (PU-31).

Technology assessed: Assessment of insecticides to control white fly in Black Gram.

KVK Hastinapur (Meerut) has conducted "On Farm Trial" entitled Assessment of insecticides to control white fly in Black Gram(PU-31) by comparing newer insecticide Spiromecifene @ 200 m.l./ acre with Monocrotophos @ 1000 m.l./ha 15 days interval as farmer practice along with Buprofezin @ 500 ml/ acre. At 15 days interval up to flowering stage. An appraisal of data collected, Buprofezin has quite edge over the chemical insecticides in terms of 28isease incidence, yield potential and economic returns.

Table: Effectiveness, yield and economic parameters of different treatments for the management of white fly in Black Gram

Technology Option	No. of trials	Insect incidence (%)	Yield q./ha	% age increased	Cost of Cultivation	Gross Return (Rs)	Net Return (Rs)	B:C Ratio
T_1- Spraying of Monocrotophos @ 1000 m.l./ha 15 days interval	09	12.5	8.50	-	36172	47600	11428	1:1.32
T_2- Spraying of Spiromecifene @ 200 m.l./ acre at 15 days interval		3.95	11.20	31.76	37300	62720	25420	1:1.68
T_3- Spraying of Buprofezin @ 500 ml/ acre. At 15 days interval		1.80	13.10	54.11	36900	73360	36400	1:1.98

Sale price of black gram: Rs 5600/qt.

Farmers Feedback*: Buprofezin is easly available in local markets. It is highly effective to manage white fly in Black Gram crop.*

On Farm Trial –9

Resource Conservation THEMATIC AREA: Planting of Sugarcane by Trench method

Problem diagnosed : Low yield of Sugarcane

Technology Assessed: Assessment of performance of Trench planting techniques of Sugarcane.

Sugarcane planted by Trench planter gave 976 Q/ha. Whear as the tradistional method of planting techniques, yield was recorded as 825 Q/ha. The net return was enhanced from Rs. 163825 to Rs. 205440. And B:C ratio was also recorded which was increased 1:2.7 to 1:3.01.

Table: Performance of different method of planting of Sugarcane.

Technology Option	No. of trials	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross income (Rs)	Net returns (Rs)	BC ratio (Rs)
T_1: Farmer practice – Planting of Sugarcane by raiser	06	872	-	96000	259825	163669	2.7
T_2: Trench method		976	11.92	102000	307440	205440	3.01

Sale price of Sugarcane: Rs 315/qt.

Feed Back: *The method of Trench* planting was found better and gave Rs. 41771.00 additional income/ ha

On Farm Trial –10

THEMATIC AREA: Sowing of wheat after incorporation of crop residue

Problem diagnosed **:** Burning of crop residues (Paddy Straw)

Technology Assessed: Assessment of effect of **c**rop residue of paddy incorporated in the field of wheat.

To assess the performance of sowing of wheat after incorporation of crop residue by mulcher . On Farm Trial was conducted with 04 treatments under field condition. Data was collected 4.4 % more yields was obtained in corporation of field where Paddy straw burned in the field of wheat. .

Table: Sowing of wheat after incorporation of crop residue

Technology Option	No. of trials	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs)	Gross income (Rs)	Net returns (Rs)	BC ratio (Rs)
T_1: Farmer practice – Sowing of without incorporation of crop residue	06	47.7	-	24500	91822	67322	1:3.70
T_2: Sowing of wheat after incorporation of crop residue by mulcher		49.8	4.4	25400	95865	70465	1:3.77

Feed Back: In treatment no, T2 recorded maximum yield as 49.8 q/ha which is 4.4% more than non adoption of the practices. Resulting the techniques obtained net profit of Rs. 70465 as compared to Rs. 69322 in farmers practice, B.C ration is also more as 3.77 as compared to 3.70.

On Farm Trial –11

THEMATIC AREA: HOUSE HOLD FOOD SECURITY

Problem definition: Malnutrition in farm women and rural children
Technology Assessed: Assessment of house hold food security through nutritional garden

Technology Option	No. of trials	Yield (kg/100 sqm)	Increase yield (%	Performance indicators		Cost of cultivation (Rs)	Gross return (Rs)	Net Profit (Rs)	B:C Ratio
				Indicator	Performance				
Production of some leafy and cucurbitaceous vegetables only (Farmers Practice)	10	45	--	• Availability of green vegetables • General health • Disease occurrence	65 days Comparatively poor Comparatively more	250	1125	875	4.5
Enhance household food security through Nutritional Garden throughout the year		120	166	• Availability of green vegetables • General health • Disease occurrence	245 days Comparatively good Comparatively less	450	3000	2550	6.6

Sale Price: @ Rs 25 per kg

FEED BACK: *Remarkable acceptance of kitchen gardening due to readily availability of fresh and hygienic vegetables almost free of cost. The practice ensures the regular consumption of vegetables to family members. Save time for purchasing the vegetables from the distant market.*

II. FRONTLINE DEMONSTRATION

List of technologies demonstrated during previous year & popularized during 2020 and recommended for large scale adoption in the district

SN	Crop/ Enterprise	Thematic Area	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area (ha)
1	Urd	Varietal evaluation	Promotion of improved variety PU-31(NFSM)	Demonstration, Training and Advisory Services	11	25	10.0
2	Lentil	Varietal evaluation	Promotion of improved variety PL-8(NFSM)		12	25	10.0
3	Lentil	Varietal evaluation	Promotion of improved variety PL-8(NFSM)		8	25	10.0
4	Mustard	Varietal evaluation	Introduction of high yielding RH-749 (NFSM)		11	25	10.0
5		INM	Use of Sulphur @ 40 Kg/ha.		5	10	4.0
6	Paddy	INM	Application of Ferrous sulphate in Paddy @ 25 kg /ha		6	10	4.0
7	Wheat	Varietal evaluation	Introduction of high yielding timely sown variety HD-2967 (Post office)		1	03	1.20
8	Marigold	Varietals Evaluation	Popularization of improved variety Pusa Narangi		3	10	1.00
9	Garlic	Varietals Evaluation	Inter cropping of Garlic variety G-282 with autumn planting of Sugarcane.		1	05	0.40
10	Garden Pea	Varietals Evaluation	Inter cropping of Potato variety PS-10 with autumn planting of Sugarcane.		1	05	0.40
11	Potato	Varietals Evaluation	Inter cropping of Potato variety Kufri Chipsona-1 with autumn planting of Sugarcane.		1	05	0.40
12	Marigold	Varietals Evaluation	Popularization of improved variety Pusa Narangi		3	10	1.00
13	Potato	Varietals Evaluation	Popularization of improved variety Kufri Mohan and Kufri Surya		8	05	0.4
14	Potato	Varietals Evaluation	Seed production of improved variety Kufri Mohan under insect free net house		2	01	0.02

15	Potato	Varietals Evaluation	Inter cropping of Potato variety Kufri Chipsona-1 with autumn planting of Sugarcane.		3	45	1.6
16	Garden Pea	Varietals Evaluation	Inter cropping of Potato variety PS-10 with autumn planting of Sugarcane.		4	05	0.40
17	Paddy	IPM	Management of Srem borer of paddy through chlorantriliprole 0.4 %		2	10	2.0
18	Sugarcane	IDM	Management of Pokkabowing 33isease		2	10	2.0
19	Parwal	IPM	Management of fruit fly in Parwal		6	10	4.0
20	Tomato	IPM	Management of fruit borer by spinosad 45 %		3	5	1.0
21	Mango	Value addition	Preparation of Mango Pickle with locally available fruit		3	10	0
22	Kitchen garden	House hold food security	Demonstration of well planned Kitchen Garden (100 m^2)		7	10	0.1
23	Paddy	Resource Conservation	Use of Power sprayer for spraying of insecticides in Paddy crop		5	10	4.0
24	Wheat	Resource Conservation	Sowing of wheat by seed drill.		6	**15**	**6.0**
						304	**73.92**

b. Details of FLDs implemented during year 2020

SN	Crop/ Enterprise	Thematic area	Technology Demonstrated	Season / year	Area (ha)	No. of farmers/ demonstration		
						SC/ST	Others	Total
Pulses								
1	Urd	Varietal evaluation	Promotion of improved variety PU-31(NFSM)	Summer 2019-20	10.0	06	19	25
2	Lentil	Varietal evaluation	Promotion of improved variety PL-8(NFSM)	Rabi 2019-20	10.0	05	20	25
Oilseeds								
3	Mustard	INM	Use of Sulphur @ 40 Kg/ha.	Rabi 2019-20	4.0	03	07	10

Other crop								
4	Paddy	INM	Application of Ferrous sulphate in Paddy @ 25 kg /ha	Kharif 2020	4.0	01	09	10
5	Wheat	Varietal evaluation	Introduction of high yielding timely sown variety HD-2967	Rabi 2019-20	1.20	-	03	03
6	Garden Pea	Varietals Evaluation	Inter cropping of Potato variety PS-10 with autumn planting of Sugarcane.	Rabi 2020	0.40	04	01	05
7	Potato	Varietals Evaluation	Inter cropping of Potato variety Kufri Chipsona-1 with autumn planting of Sugarcane.	Rabi 2020	0.40	03	02	05
8	Potato	Varietals Evaluation	Popularization of improved variety Kufri Mohan and Kufri Surya	Rabi 2019-20	1.2	08	04	12
9	Paddy	IPM	Management of Srem borer of paddy through chlorantriliprole 0.4 %	Kharif 2020	2.0	2	8	10
10	Sugarcane	IDM	Management of Pokkabowing disease. Application of copper oxychloride.	Rabi 2019-20	2.0	3	7	10
11	Parwal	IPM	Management of fruit fly in Parwal by cue lure traps.	Kharif 2020	4.0	2	8	10
12	Tomato	IPM	Management of fruit borer by spinosad 45 %	Rabi 2020-21	1.0	-	5	5
13	Mango	Value addition	Preparation of Pickle	Kharif 2020	0	5	5	10
14	Kitchen garden	House hold food security	Demonstration of well planned Kitchen Garden (100 m^2)	Rabi 2019-20	0.1	3	7	10
15	Paddy	Crop Residue Management	Use of Power sprayer for spraying of insecticides in Paddy crop	Kharif- 2020	4.0	3	7	10
16	Wheat	Crop Residue Management	Sowing of wheat by seed drill.	Rabi 2019-20	6.0	5	10	15
17	Sugarcane	Crop Residue Management	Crop Residue Management through mulcher	Kharif 2020	**130.0**			**112**
			Total		**180.3**			**317**

Technical Feedback on the demonstrated technologies

SN	Crop/ Animal	Feed Back
1	Urd (NFSM)	Variety PU-31 is susceptible to mosaic disease. Production of PU-31 variety is 23.93.85% higher over check var.
2	Lentil (NFSM)	Wilting disease appeared in some fields just after irrigation and highly damaged by blue bulls at the stage of pod formation. Production of PL-8 variety.
3	Mustard	An application of sulphur 40 kg/ha. Resulted 15.35 % more yield along with little bit higher oil content in the mustard grains in the same variety RH-749
4	Paddy	An application of Feerous Sulphate @25 kg/ha. Resulted 5.81 % more yield and good market value.
5	Wheat	HD- 2967 varieties observed under demonstration over locally grown variety. Rust disease did not appear in the variety while Aphid attacks at milking stage.
6	Garden Pea	Variety PS – 10 gave additional income and also causes nitrogen fixation in soil resulting less use of urea.
7	Potato	Early maturity & low starch value so it has a demand for chips industry.
8	Parwal	Use of bio agents as Installation of 05 traps /acre were proved very effected and feasible for the management of fruit fly in parwal and give 15.79 % increase in yield.
9	Paddy	Chlorantraniliprole was found very effective to control stem borer 15.18 % increased yield.
10	Sugarcane	An increase 15.29 % increase in yield of Sugarcane was recorded after application of spraying of blitox 50@ 3kg./ha to control pokkabowing.
	Tomato	An increase 18.16 % increase in yield of Tomato was recorded after application of spraying of spinoshed 45 % to control fruit borer and found very effective..
11	Mango	Value addition of Mango Pickle with locally available fruit (Drum Stick, Amala, through preparation of mix pickle, increased gradational income as compared to direct selling of Mango in local market and more nutrient in pickle.
12	Kitchen Garden	Under the demonstration on household food security the respondents are getting fresh and potable green seasonal vegetables and get more nutrient like protein, vitamin throughout the year. In addition to this, a handsome amount is being saved by using the home produced vegetables .
13	Paddy	Power sprayer was demonstrated on farmers field in paddy crop for even spraying of insecticide/ pesticides for better control of insects and diseases
14	Wheat	Line sowing of wheat to increases the yield of wheat by seed drill.

Farmers' reactions on specific technologies

S. No	Crop	Feed Back
1	Urd	Severe infestation of YVM.
2	Lentil	Production of demonstrated variety is significantly higher than their local variety.
3	Mustard	Mustard is persuading as a good oil seed crop & farmers are keen to incorporation as a rabi crop in existing sugarcane based cropping system. Easy availability and cheaper technology favors its adoption among farmers.
4	Mustard	Sulpher is easily available in local market and cheaper technology to increase oil content resulting higher income.
5	Paddy	Application of Ferrous Sulphate gave good results it reflects In productivity as well as checks in rice.
6	Paddy	Chlorantraniliprole was found very effective to control stem borer and found very effective and economic to control stem borer in rice.
7	Wheat	Farmers found variety HD-2967 gives good yield in late sown condition and there is no rust disease found in the field.
9	Potato	Due to medium and manageable size, softness, darkness in color and market price acceptance is better.
11	Vegetable Pea	Sowing of garden pea with sugarcane decreased the gross cost of cultivation as use of urea is almost half.
12	Parwal	Application of traps is feasible for the management of fruit fly in parwal and easily available in the market.
13	Tomato	Its gives longer protection against white fly while other chemical control causes resistance, proved expenses and needed repeatedly..
14	Sugarcane	Application of spraying of blitox 50 to control pokkabowing. Resulting higher yield.
15	Tomato	Application of spraying of spinoshed 45% to control fruit borer. Resulting higher yield and safe for health.
	Mango	Mixed Pickle is easy to prepare and proved a viable technology to get additional income by selling it in nearby market and get better price, more nutrient.
16	Kitchen Garden	Farmers enjoyed the sufficient, chemical free, cheaper , all nutrients and quality green fresh and vegetables for almost throughout the year.
17	Paddy	Farmer are using power sprayer for better control of insects. It also reduced the drudgery and improve the efficiency of the labour.
18	Wheat	By use of seed drill enhancement of yield and control of lodging. Therefore farmers are liking the seed drill.

Front Line Demonstration

Performance of Cluster Frontline demonstrations

Pulse crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR
						High	Low	Average										
Lentil (Rabi-2019-20)	Integrated Crop Management	Scientific Production of Lentil variety-PL-8	PL-8	25	10.0	15.30	14.40	14.85	11.30	31.40	24000	71280	47280	1:2.97	23600	54240	30640	1:2.3
Urd Summer -2020	Varietal evaluation	Popularization of improved variety	PU-31	25	10.0	9.6	8.74	9.17	7.12	28.79	25300	51352	26052	1:2.17	39872	15172	18020	1:1.72

* Sale price – Urd @ 8000/qtl. Lentil @ 4800/

Oilseed crops

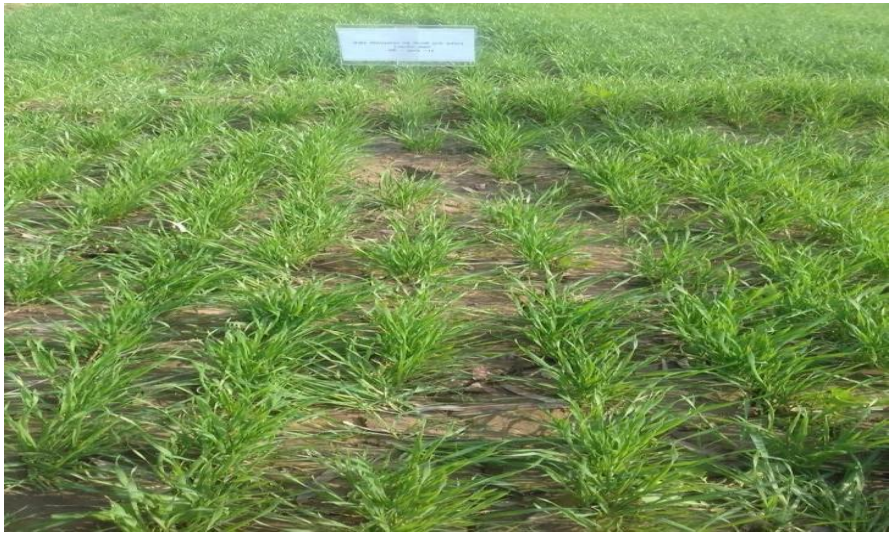
Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Mustard (2019-20)	INM	Use of Sulphur @ 40 Kg/ha.	RH-749	10	4.0	19.25	12.25	16.58	14.37	15.37	16032	73366	57335	4.57	15998	63587	47589	3.97

* Sale price of Mustard: @ Rs 4425/-

FLD on Other crops:

Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% increase in Yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Av.										
Wheat	Varietal Evaluation	Improved variety HD-2967	03	1.2	52.25	46.35	49.3	42.95	14.78	34345	94902	60577	1:2.76	36215	82678	46463	1:2.28
Paddy	INM	Use of Sulphur @ 25 Kg/ha.	10	4-0	59-0	57-4	58-20	48-92	18-96	4876300	145500	96737	1%1-98	62578	122300	59722	1%1-95

* Sale price –Wheat@ Rs1925/qt,



Crop	Thematic	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)			Economics of demo. Rs./ha)				Economics of check (Rs./ha)			
					Main crop (Q/ha.)	Enter crop (Q/ha.)	Equivalent Yield (Q/ha.)	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Garden Pea	ICM	Inter cropping of Garden pea variety PS-10 with autumn planting of Sugarcane.	05	0.4	815.0	93.15	1406.42	118100.00	443022.00	324922.0	1: 3.75	86500.00	256725.0	170225.0	1:2.96
Potato	ICM	Inter cropping of Potato variety Kufri Chipsona-1 with autumn planting of Sugarcane.	05	0.4	835.0	269.64	1691.0	142100.00	532665.00	390565.0	1:3.74	96500.00	263025.0	166525.0	1:2.72
Potato	VE	Popularization of improved variety Kufri Mohan, Kufri Surya and Kufri Ganga	12	1.2	Demo.	Check	% Incre.	85600.0	437250.0	350750.0	1:5.10	80600.0	345750.0	265150.0	1:4.28
				Kufri Surya	291.5	230.5	26.46								
				Kufri Mohan	280.2	210.2	33.30	85600.0	420300.0	334700.0	1:4.91	80600.0	315300.0	234700.0	1:3.91
				Kufri Ganga	278.5	215.5	29.23	85600.0	417750.0	332150.0	1:4.88	80600.0	323250.0	242650.0	1:4.01

Sale price @ / Qt/ha. Potato -1000, Garden Pea -1500, Sugarcane- 315

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Economics of demo. Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Av.										
Paddy /Pusa-1121	IPM	Management of Stem borer of paddy through chlorantriliprole 0.4 %	10	2.0	50.3	40.0	45.15	39.2	15.18	37400	108360	70960	1:2.90	36600	94080	57480	1:2.57
Sugarcane/ Co-238	IDM	Management of Pokkabowing by using of CoC@3g/lit	10	2.0	980	837	908.50	788	15.29	98980	286178	187198	1:2.89	92260	248220	155960	1:2.69
Parwal/ Sel.-16	IPM	Management of fruit fly in Parwalby using Cue-lure traps @5 traps/acre	10	4.0	122	98	110.0	95	15.79	43280	220000	176720	1:5.08	41910	190000	148090	1:4.53
Tomato/ Hybrid-2	IPM	Management of fruit borer by spinosad 45 %	5	1.0	452.3	378.4	415.35	350.5	18.16	223000	623025	400025	1:2.79	220000	527250	505850	1:2.39

Sale price : Parwal @ Rs 20.0/kg, Paddy @ Rs 2400/qtl., Sugarcane @ 315/Qt., Tomato @ Rs 15. / kg




Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Economics of demo. Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Av.										
Paddy	RCT	Use of Power sprayer for spraying of insecticides in Paddy crop	10	4.0	49.3	44.6	46.95	42.1	11.5	24500	88641	64141	1:3.6	22500	79484	56984	1:3.5
Wheat /HD-2967(Rabi 2019-20)	CRM	Sowing of wheat by Seed Drill/	15	6.0	44.2	42.8	43.5	40.6	7.14	22600	83737	61137	1:3.7	22100	78155	56055	1:3.45
Sugarcane	CRM	Crop Residue Management through mulcher	112	130.0	995	900	947.5	913.0	3.8	10500	303938	202958	1:2.93	102000	296725	194725	1:2.90

Sale price - Wheat- @ Rs, 1925.00 , Sugarcane - @ Rs, 315.00 Paddy-1888/-

Kitchen garden- House hold food security

Thematic area	Technology demon	No. of Demo.	Yield (Kg)		% change in yield	Economics of demonstration (Rs./kg)				Economics of check (Rs./kg)			
			Demo.	Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
House hold food security	Kitchen gardening	10	120	35	242	450	3000	2550	1:6.6	250	875	625	1:3.5

FLD on Women Empowerment

Category and Crop	Thematic area	Technology demonstrated	No. of Farmer	Quantity (Kg.)	Economics of demonstration (Rs.)			
				Demo.	Gross Cost	Gross Return	Net Return	BCR (R/C)
Mango	Value addition	Preparation of Mango Pickle + locally available fruits(Drum stick, Aamla)	10	5	250	750	500	1:3.0

@ Rs. 150/kg

III. Training Programme

Farmers' Training including sponsored training programmes (On campus)

Thematic area	ON CAMPUS									
	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Crop management	3	45	0	45	15	0	15	60	0	60
Total	**3**	**45**	**0**	**45**	**15**	**0**	**15**	**60**	**0**	**60**
II Horticulture										
Management of young plants/orchards	1	14	0	14	06	0	06	20	0	20
Nursery management	1	18	0	18	02	0	02	20	0	20
Total (b)	**2**	**32**	**0**	**32**	**08**	**0**	**08**	**40**	**0**	**40**
III Soil Health and Fertility Management										
Integrated Nutrient Management	1	17	0	17	3	0	3	20	0	20
Production and use of organic inputs	1	15	0	15	5	0	5	20	0	20
Micro nutrient deficiency in crops	1	18	0	18	2	0	2	20	0	20
Soil and Water Testing	1	15	0	15	5	0	5	20	0	20
Total	**4**	**65**	**0**	**65**	**15**	**0**	**15**	**80**	**0**	**80**
IV Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	13	13	0	7	7	0	20	20
Minimization of nutrient loss in processing	1	0	18	18	0	2	2	0	20	20
Value addition	1	0	6	6	0	14	14	0	20	20
Total	**3**	**0**	**37**	**37**	**0**	**23**	**23**	**0**	**60**	**60**
Ag. Engg										
Repair & Maintenance	3	51	-	51	9	-	9	60	-	60
Drip Irrigation	1	16	-	16	4	-	4	20	-	20
Total	**4**	**67**	**-**	**67**	**13**	**-**	**13**	**80**	**-**	**80**
Plant Protection										
Integrated Pest management	**3**	**51**	**-**	**51**	**09**	**-**	**09**	**60**	**-**	**60**
GRAND TOTAL	**19**	**260**	**37**	**297**	**60**	**23**	**83**	**320**	**60**	**380**

Off Campus

Thematic area	Off CAMPUS									
	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Residue management	1	15	0	15	5	0	5	20	0	20
Resource Conservation Technologies	3	54	0	54	06	0	06	60	0	60
Nursery management	1	18	0	18	2	0	2	20	0	20
Integrated Crop Management	1	18	0	18	2	0	2	20	0	20
Total	**06**	**105**	0	**105**	**15**	0	**15**	**120**	0	**120**
II Horticulture										
a) Vegetable Crops										
Production of low value and high volume crops	1	17	0	17	3	0	3	20	0	20
Nursery management	2	35	0	35	5	0	5	40	0	40
Methods of sowing techniques	2	32	0	32	8	0	8	40	0	40
Total (a)	**5**	**84**	**0**	**84**	**16**	**0**	**16**	**100**	**0**	**100**
b) Fruits										
Layout and Management of Orchards	1	17	0	17	3	0	3	20	0	20
Rejuvenation of old orchards	1	18	0	18	2	0	2	20	0	20
Total (b)	**2**	**35**	**0**	**35**	**5**	**0**	**5**	**40**	**0**	**40**
c) Ornamental Plants										
d) Spices										
GT (a-d)	**7**	**119**	**0**	**119**	**21**	**0**	**21**	**140**	**0**	**140**
III Soil Health and Fertility Mangmt.										
Soil fertility management	2	30	0	30	10	0	10	40	0	40
Integrated Nutrient Management	2	32	0	32	8	0	8	40	0	40
Micro nutrient deficiency in crops	2	34	0	34	6	0	6	40	0	40
Soil and Water Testing	2	32	0	32	8	0	8	40	0	40
Total	**08**	**128**	**0**	**128**	**32**	**0**	**32**	**160**	**0**	**160**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	0	6	6	0	14	14	0	20	20
Minimization of nutrient loss in processing	2	0	35	35	0	05	05	0	40	40
Women and child care	3	0	38	38	0	22	22	0	60	60
Drudgery reduction	2	0	21	21	0	19	19	0	40	40
Total	**8**	**0**	**100**	**100**	**0**	**60**	**60**	**0**	**160**	**160**
Agri. Engg										
Repair & Maintenance	7	113	-	113	27	-	27	140	-	140
Protected cultivation	1	15	-	15	5	-	5	20	-	20

Total	**8**	**128**	**-**	**128**	**32**	**-**	**32**	**160**	**-**	**160**
V Plant Protection										
Integrated Pest management	6	102	-	102	18	-	18	120	-	120
Integrated Diseases management	2	33	-	33	07	-	07	40	-	40
Total	**08**	**135**		**135**	**25**	**-**	**25**	**160**	**-**	**160**
G Total	**45**	**615**	**100**	**715**	**125**	**60**	**185**	**740**	**160**	**900**

Consolidated (On + Off)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Nursery management	1	18	0	18	02	0	02	20	0	20
Crop management	3	45	0	45	15	0	15	60	0	60
Residue management	1	15	0	15	05	0	5	20	0	20
Resource Conservation Technologies	3	54	0	54	06	0	06	60	0	60
Integrated Crop Management	1	18	0	18	02	0	02	20	0	20
Total	**09**	**150**	**0**	**150**	**30**	**0**	**30**	**180**	**0**	**180**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops	1	17	0	17	3	0	3	20	0	20
Nursery management	3	53	0	53	07	0	07	60	0	60
Method of sowing technique	2	32	0	32	08	0	08	40	0	40
Total (a)	**06**	**102**	**0**	**102**	**18**	**0**	**18**	**120**	**0**	**120**
b) Fruits										
Layout and Management of Orchards	1	17	0	17	03	0	03	20	0	20
Management of young plants/orchards	1	14	0	14	06	0	06	20	0	20
Rejuvenation of old orchards	1	18	0	18	02	0	02	20	0	20
Total (b)	**3**	**49**	**0**	**49**	**11**	**0**	**11**	**60**	**0**	**60**
G.T	**9**	**151**	**0**	**151**	**29**	**0**	**29**	**180**	**0**	**180**
III Soil Health and Fertility Management										
Soil fertility management	2	30	0	30	10	0	10	40	0	40
Integrated Nutrient Management	3	49	0	49	11	0	11	60	0	60
Micro nutrient deficiency in crops	3	52	0	52	8	0	8	60	0	60
Soil and Water Testing	3	47	0	47	13	0	13	60	0	60
Production and use of organic input	1	15	0	15	5	0	5	20	0	20
Total	**12**	**193**	**0**	**193**	**47**	**0**	**47**	**240**	**0**	**240**
V Home Science/Women empowerment										
Household food security by kitchen gardening and	2	0	19	19	0	21	21	0	40	40

nutrition gardening										
Minimization of nutrient loss in processing	3	0	53	53	0	7	7	0	60	60
Women and child care	3	0	38	38	0	22	22	0	60	60
Drudgery reduction	2	0	21	21	0	19	19	0	40	40
Value addition	1	0	6	6	0	14	14	0	20	20
Total	**11**	**0**	**137**	**137**	**0**	**83**	**83**	**0**	**220**	**220**
Plant Protection										
Integrated Pest management	09	153	-	153	27	-	27	180	-	180
Integrated Diseases management	02	33	-	33	07	-	07	40	-	40
Total	**11**	**186**	**-**	**186**	**34**	**-**	**34**	**220**	**-**	**220**
VI Agric. Engg.										
Repair & Maintenance	10	164	-	164	36	-	36	200	-	200
Drip Irrigation	1	16	-	16	4	-	4	20	-	20
Protected cultivation	1	15	-	15	5	-	5	20	-	20
Total	**12**	**195**	**-**	**195**	**45**	**-**	**45**	**240**	-	**240**
Grand Total	**74**	**875**	**137**	**1012**	**185**	**83**	**268**	**1060**	**220**	**1280**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Seed Production	1	9	-	9	1	-	1	10	0	10
Value addition	1	0	7	7	-	3	3	-	10	10
Women empowerment	1	0	8	8	-	2	2	-	10	10
Vermin Compost	1	7	-	7	3	0	3	10	0	10
Nursery raising under poly house	1	10	0	10	0	0	0	10	0	10
Repair & maintenance	2	11	-	11	9	-	9	20	-	20
Integrated Pest Management	2	25	3	28	8	-	8	33	3	36
Integrated Nutrient Management	1	3	-	3	7	-	7	10	-	10
Total	**10**	**65**	**18**	**83**	**28**	**5**	**33**	**93**	**23**	**116**

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

Area of Training	ON CAMPUS									
	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Management	2	20	0	20	10	0	10	30	0	30
Integrated Nutrient management	3	30	0	30	15	0	15	45	0	45
Layout and management of orchard	2	25	0	25	5	0	5	30	0	30
Nutrient management	1	15	0	15	0	0	0	15	0	15
Women and Child care	2	0	25	25	0	5	5	0	30	30
House hold food security	1	0	12	12	0	3	3	0	15	15
Integrated Pest Management	3	37	0	37	08	0	08	45	0	45
Repair & maintenance	3	45	0	45	0	0	0	45	0	45
Irrigation	1	15	0	15	0	0	0	15	0	15
TOTAL	**18**	**187**	**37**	**224**	**38**	**8**	**46**	**225**	**45**	**270**

Sponsored training programmes

Area of training	Sponsoring Agency	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Farmers Technical Training	U.P. Government	04	140	10	150	28	22	50	168	32	200
TOTAL		04	140	10	150	28	22	50	168	32	200

IV. Extension Activity

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	Total
Advisory Services	512	971	39	1010
Diagnostic visits	14	49	21	70
Field Day	7	165	33	198
Group discussions	-	-	-	-
Kisan Ghosthi	33	1523	245	1768
Film Show	8	1325	67	1392
Self –help groups	4	73	13	86
Kisan Mela (Attended)	19	2433	57	2490
Exhibition	7	3512	23	3535
Scientists' visit to farmers field	48	235	14	249
Plant/animal health camps	-	-	-	-
Farm Science Club	-	-	-	-
Ex-trainees Sammelan	-	-	-	-
Farmers' seminar/workshop	-	-	-	-
Method Demonstrations	-	-	-	-
Celebration of important days	5	331	33	364
Special day celebration	2	153	15	168
Exposure visits	3	132	4	136
Others(Farmer visited KVK)	-	-	-	-
Total	**662**	**10902**	**564**	**11466**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	11
News paper coverage	39
Popular articles	13
Radio Talks	03
TV Talks	03
Animal health amps (Number of animals treated)	0
Others(Success Story,Book Published)	7
Total	**76**

Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Meerut	Text only	**302**	**8**	**13**	**18**	**48**	**23**	**412**
	Voice only	1520	23	48	17	430	211	2249
	Voice & Text both							
	Total Messages							
Total farmers Benefitted		**1822**	**31**	**61**	**35**	**478**	**234**	**2661**

VI. PRODUCTION OF SEED/PLANTING MATERIAL AND FODDER

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)
Rabi 2018-19	Wheat	HD – 2967	-	207.0	398475.00
	Jowar	PC – 9	-	Auction	76500.00
	Wheat Straw			127.0	45720.00
Total					**520695.00**

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)
Vegetable	Onion	Pusa Red	-	20700	7310
Total				20700	7310

Product	Quantity	Value (Rs.)
Milk Production	671 lit	30195.00
Mushroom Production	18 Kg	1600.00
Vermi Compost	800 Kg	4000.00

Production of Bio-Products: Vermi compost – 8.0 Qt. (Farm use)

Vermi Compost Demonstration Unit KVK Campus

Performance of Crop Cafeteria

Kharif		Rabi	
Name of crop	**Variety**	**Name of crop**	**Variety**
Brocolli	Green curd	Mustard	1. ADV- 414
			2. NRIY-5502
			3. RH- 749
Brinjal	Navkiran		4. Pusa Vijay
			5. Pitambri
Chilli	Ashwarya		6. YSH-402
Tomato	Ajanta	Timely sown Wheat	1. HD-3226
Onion	Pusa Red		2. HD-2967
			1. DBW-187
Cauliflower	K - 10		2. WB-02
Cabbage	1. Parvati		3. DBW-17
			4. DBW-88
			5. HD-2851(Pusa special)
			6. NAVI MG Black

			7. Karan-32
		Late sown wheat	1. DBW 71
			2. DBW 173
			3. DBW 90
			4. WH-1124
			5. HD-3059
			6. PBW-590
		Lentil	1. L-4717

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	869	869	12	70602
Water				
Plant				
Total	869	869	12	70602

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
Meerut	22.12.2020

IX. NEWSLETTER/MAGAZINE

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

X. PUBLICATIONS

Category	Number
Books	-
Training Manual	1
Book Chapter	11
Research papers	9
Seminar Papers	16
Technical bulletins	2
Technical reports	5
Total	44

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

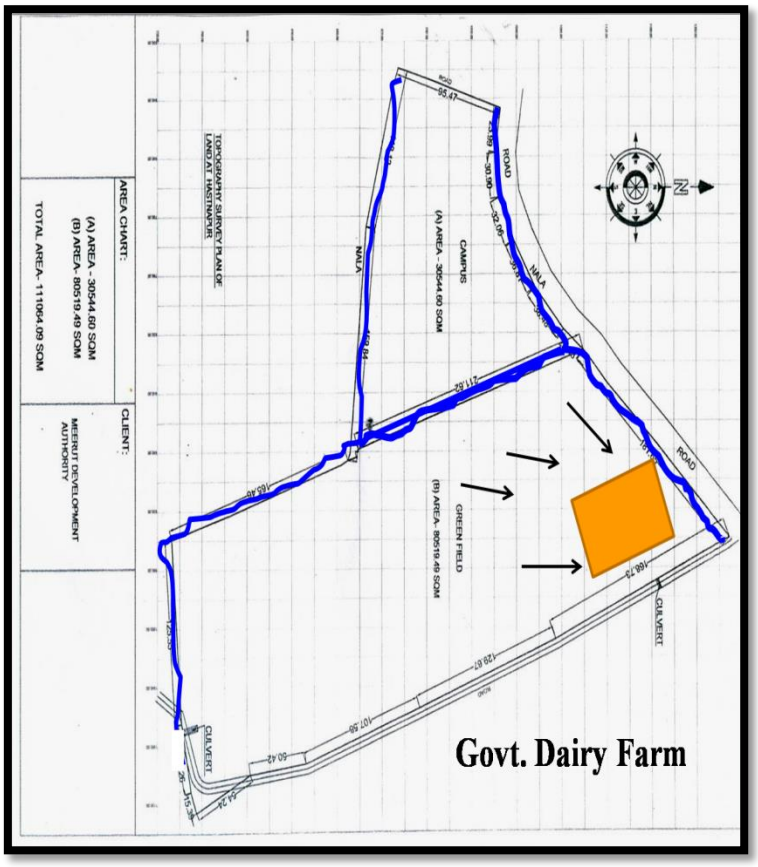
Rain Water Harvesting at KVK

Water is becoming a scare commodity and it is considered as a liquid god in the country. Demand of water is also increasing day by day not only for irrigation but also for household and industrial purposes. At the same time more area should be brought under irrigation to feed the increasing population of the country, which also needs more water. But we are not going to get 1liter more water than we get at present though the demand is alarming.

Objectives

- To demonstrate the technology among farmers
- To avoid water stagnation and crop damage
- Recycling of waste drain water
- To utilize the stored water for irrigation and other farm purposes during dry season
- To avoid sole dependency on electricity to irrigate farm as well as reducing costly electricity charges

Total Encatchment Area – 6



Summary of project for water harvesting structure:

S. N.	Item	Amount (Rs)
(A)	Cost of ponds	
1	Cost of ponds	834440.00
2	Cost of barbed wire fencing	132452.70
3	Cost of Syphon work	51476.00
4	Cost of sign board	5000.00
	Total	1023368.70

(B)	Additional charges	
	Cost of labour cess @ 1 % on A	10233.68
	Centage charges @ 6.875 % on A	70556.60
	Total	80970.28
(C)	Cost of Percolation treatment	
	Filling of clay soil and common salt in bottom of pond to prevent water percolation	100000.00
(D)	Cost of Solar pump	
	Cost of solar pump (3 HP)	434000.00
	Cost of trolley for panel installation	42000.00
		476000.00
	Grand Total = A + B + C + D =	1680338.98
	Say = Rs Sixteen lac and eighty thousand only	1680000.00

It is very important to make water everybody's business. It means a role for everybody with respect to water. Every household and community has to become involved in the provision of water and in the protection of water resources. As far as the KVK is concern, a water harvesting being a long life structure at KVK, not only useful for irrigation and money saving asset but also may serve the farming community to aware them about conservation of natural resources to counter water crises in future and may be integrate as component to develop integrated farming system as entrepreneurship development.

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

Introduction of alternate crops/varieties

Crops/cultivars	**Area (ha)**	**Extent of damage**	**Recovery of damage through KVK initiatives if any**
Total			

Major area coverage under alternate crops/varieties

Crops	**Area (ha)**	**Number of beneficiaries**
Oilseeds		
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants
Total		

Animal health camps organised

Number of camps	No.of animals	No.of farmers
Total		

Seed distribution in drought hit states

Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Total			

Large scale adoption of resource conservation technologies

Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Total		

Awareness campaign

	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers

XIII. DETAILS ON HRD ACTIVITIES

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

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
Total				

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

Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
Total			

Publications (Print & Electronic media)

S. No	Particulars	Number sold	Revenue generated in Rs.	Number of farmers benefited
01	Books			
02	Technical bulletins			
03	Technology Inventory			
04	CDs			
05	DVDs			
06	Video films			
07	Audio CDs			
08	Others if any (please specify)			

Technology Products provided

Particulars	Quantity	Unit of quantity	Value in Rs.	Number of farmers benefited
Seeds	207.0	Quintal	398475.00	-
Planting materials	20700	Numbers	7310.00	39
Livestock		Numbers		
Poultry birds		Numbers		
Mushroom	18	Kg	1800.00	
Total			**407,585.00**	**39**

Technology services provided

S. No	Particulars	Number of farmers benefited
01	Soil and water testing	869
02	Plant diagnostics	51
03	Details about the services to line Departments	281
Total		**1201**

XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE (2020)

A. Details on ATICs

S. No	Name of the ATIC	Name of the Host Institute	Name of the ATIC Manager
1.	Krishi Vigyan Kendra, Hastinapur, Meerut	SardarVallabhbhai Patel University of Agriculture & Technology, Meerut	Dr. Omvir Singh, Professor & Head

B. Details on Farmer's visit (Jan 2020 to Dec 2020)

S. No	Purpose of visit	Number of farmer's visited
01	Technology Information	861
02	Technology Products	
03	Others if any pl. specify	

C. Facilities in the ATIC which are in operation

S. No	Particulars	Availability (Please √ mark)	Number of ATICs
01	Reception counter	√	
02	Exhibition / technology museum	√	
03	Touch screen Kiosk		
04	Cafeteria	√	
05	Sales counter	√	
06	Farmer's feedback register	√	
07	Others if any (please specify)		

D. Technology information provided

D.1. Details on technology information (Jan 2020 to Dec 2020)

S. No	Information category	Number of ATICs	Total number of farmers benefitted	Category of information						
				Varieties / hybrids	Pest management	Disease management	Agro-techniques	Soil and water conservation	Post Harvest technology and Value addition	Animal Husbandry and fisheries
01	Kisan Call Centre / other Phone calls from farmers									
02	Video shows	10	159		3	1	2	2	2	

03	Letters received									
04	Letters replied									
05	Training to farmers / technocrats / students	4	84		1			1	2	
06	Others pl. specify									

D.2 . Publications (Print & Electronic media) (Jan 2020 to Dec 2020)

S. No	Particulars	Number sold	Number of farmers benefited
1	Books Chapter	11	Mass
2	Technical Mannual	1	Mass
3	Research Paper	9	Mass
4	T.V Talk	8	Mass
5	You Tube Videos	43	Mass

E. Technology Products provided (Jan 2020 to Dec 2020)

S. No	Particulars	Quantity	Unit of quantity	Value in Rs.	Number of farmers benefited
01	Seeds	207	Quintal	398475	
02	Planting materials	20700	Numbers	7310	
03	Livestock		Numbers		
04	Poultry birds		Numbers		
05	Bio-products		Quintals		
06	Fodder		Auction	76500	
07	Milk production	671	Lit	30195	
08	Mushroom Production	18	Kg	1800	46

F. Technology services provided (Jan 2020 to Dec 2020)

S. No	Particulars	Number of farmers benefited
01	Soil and water testing	869
02	Plant diagnostics	70
03	Details about the services to line Departments	480
04	Others if any (please specify)	

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION

States covered:
Number of Directorates of Extension:

A. Details on Directors of Extension

S. No	Name of the SAU	Name of the Director of Extension	Number of KVKs for which technological backstopping is provided					
			SAU/CAU	DU	ICAR	NGO	SDA	Others (pl. specify)

B. Workshops / meetings organized during (Jan 2020 to Dec 2020)

S. No.	Details of workshop/meeting conducted	No. of KVKs participated

C. Visits made by DE / Officials in the Directorate to KVKs during (Jan 2020 to Dec 2020)

S. No.	Particulars	Number of visits
01	SAC meetings	
02	Field days	
03	Workshops / seminars	
04	Technology week	
05	Training programmes	
06	Others pl. specify	

D. Overseeing of KVKs activities during (Jan 2020 to Dec 2020)

S. No.	Particulars	Number of fields visited	Major observations / remarks	Major suggestions given
01	On Farm Trials			
02	Front Line Demonstration			
03	Others pl. specify			

E. Publication on Technology inventory during (Jan 2020 to Dec 2020)

S. No.	Particulars	Number
01	Directorates published the technological inventory	
02	Directorates constantly updating the technological inventory	

F. **Technological Products provided to KVKs during** (Jan 2020 to Dec 2020)

S. No.	Major technologies provided	Number of KVKs
01	Seeds	
02	Planting materials	
03	Bio-products	
04	Livestock breed	
05	Livestock products	
06	Poultry breed	
07	Poultry products	
08	Others pl. specify	

CFLD demonstrations under NFSM During Year – 2020

S.No.	Demo.	Crop	Variety	Area (ha.)	No.of farmers	No. of villages
Kharif- 2020						
1	CFLD	Urdbean	P U 31	10	25	7
Rabi 2020 -21						
2	CFLD	Mustard	RH 749	30	75	7
3	CFLD	Lentil	PL 8	10	25	6

I. Cluster FLDs on pulses under NFSM (Kharif 2020)

1	Name of the crop	Urdbean (Blackgram)
2	Season and year	Kharif 2020
3	No. of FLDs (farmers) sanctioned	25
4	No. of FLDs (farmers) conducted	25
5	Area (ha) sanctioned	10
6	Area (ha) actually conducted	10
7	Sanctioned budget (Rs.)	180000.00
8	Budget received actually (Rs.)	180000.00
9	Actual expenditure (Rs.)	37700.00
10	Balance amount (Rs.)	33772.00
11	FLDs implemented in how many clusters?	Seven
12	No. of villages and farmers in each cluster	7 villages & 4 to7 farmers in each clusters
13	Land situation (irrigated, rainfed, others specify)	Irrigated
14	Name of variety/varieties demonstrated	PU-31
15	Technologies/package of practices demonstrated in each cluster	Seed 180 kg + Emizthpyr 750 gm/ha + Difenthuran 50% 1.25 Kg/ha
16	Sowing date/dates as per clusters	Cluster 1,2,&3- 15 to 30 August, & Cluster 4 & 5 - 17 to 25 August, 2018
17	Number of field operations taken so far like manuring, weeding, irrigation etc. and name them with approximate date/week	**Plant protection schedule-** 25-30 days : Spray Emamectin Benzoate 5 % SG 250 g/ha. to control of green caterpillar 45-50 days : Carbendazim 50% WP 750 g/ha to control Corynespora leaf spot. + Imidacloprid 17.8 SL 250 ml /ha., to control of whitefly 62 days : Second spray Imidacloprid 17.8 SL 250 ml /ha., to control of whitefly & aphids 72 days : Third spray Imidacloprid 17.8 SL 250 ml /ha., to control of whitefly & aphids
18	Stage of the crop	Harvested
19	Expected harvesting date/dates as per clusters	2 November to 15 November , 2020

IV. Critical inputs provided for demonstration

Sl. No.	Critical inputs	Name of critical input	Quantity	Value (Rs.)	No. of farmers	No. of villages	No. of clusters
1	Seeds (name variety)	Seed (PU 31)	180 Kg	15120.00	25	05	11
2	Fertilizers (Organic and inorganic)	-	-	-	-	-	-
3	Micro-nutrients	-	-	-	-	-	-
4	Weedicides, Pesticides, Fungicides etc.	1- Difenthuran 50 %	6 Kg	17500.00	25	6	6
5	Bio-agents						
6	Bio-products	-	-	-	-	-	-
7	Nutrient complex/ nutrient special	-	-	-	-	-	-

V. Training programmes organized

Sl. No.	Date	Type of training (on/off campus)	Title of training programme	Participant farmers (general)-A			Participant farmers (SC/ST)-B			Total participants (A+B)		
				Men	Women	Total	Men	Women	Total	Men	Women	Total
1	06-08-20	Off	Improved cultivation of kharif pulses	18	-	18	02	-	02	20	-	20

VI. Extension activities including field visits organized

Sl.No.	**Date**	Name of extension activity	Participant farmers			Participant extension personnel		
			Men	Women	Total	Men	Women	Total
1	06-07-20	Field selection	03	-	03	-	-	-
2	16-07-20	Sowing of demo.	06	-	06	-	-	-
3	25-08-20	Field visit	04	-	04	-	-	-
4	27-08-20	Field visit	03	-	03	-	-	-
5	10-09-20	Field visit	02	-	02	06	-	06

VII. Performance (results) of the demonstrations

(A) General information

Name of the crop	Demos (No.)	Variety		National average yield (q/ha)	State average yield (q/ha)	District average yield (q/ha)	Characteristics of the demo variety	Potential yield of the demo variety (q/ha)	Yield gap – I (%)	Yield gap – II (%)
		Check	Demo							
Urdbean (Kharif 2020)	25	8.43	10.86	5.85	4.58	3.54	Year of release- 2008 Average yield (Q/ha.)-15 Days of maturity- 75 to 80 Resistant - YMV	12.5	13.12	22.37

(B) Yield and net returns

Yield obtained (q/ha)						Yield increase (%)	Expenditure and returns (Rs./ha)								Net returns increase (%)
Check			Demo				Check				Demo				
Max.	Min.	Av.	Max.	Min.	Av.		Gross Cost (Rs/ ha)	Gross return (Rs/ ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ ha)	Gross return (Rs/ ha)	Net Return (Rs/ha)	B:C ratio	
9.71	7.15	8.43	11.60	10.12	10.86	28.82	34464.0	50580.0	16116.0	1:1.47	36785.0	65168.0	28375.0	1:1.85	76.0

Sale rate – Rs.6000 /q

VIII. Observations and feed-back

(a) Observations by Scientist(s) from KVK – Whitefly & green caterpillar are controlled only by chemical pesticides.
(b) Farmers opinion/feed-back- Blue bull & rain fall menace at pod formation stage.

IX. Visitors to cluster FLDs/study tours- D. D. Agriculture has visited the field.

X. Quality photographs for all activities to be submitted along with this format-

Cluster Frontline Demonstrations on Oilseeds under NFSM Rabi 2020-21

I. General Information

1	Name of the KVK	Hastinapur (Meerut)
2	Year of establishment	1992
3	Host Institution	S.V.P. University of Agriculture & Technology, Meerut (U.P.)
4	Address for communication including phone and fax numbers	KVK, Hastinapur (Meerut)
5	District	Meerut
6	State	Uttar Pradesh

II. Cluster FLDs on Oilseed under NFSM (Rabi 2020 - 21)

1	Name of the crop	Mustard
2	Season and year	Rabi 2020 -21
3	No. of FLDs (farmers) sanctioned	75
4	No. of FLDs (farmers) conducted	75
5	Area (ha) sanctioned	30
6	Area (ha) actually conducted	30
7	Sanctioned budget (Rs.)	60000.00
8	Budget received actually (Rs.)	119543.00 (Balance amount of 2019 – 20)
9	Actual expenditure (Rs.)	14000.00
10	Balance amount (Rs.)	36000 (as on November 20, 2020)
11	FLDs implemented in how many clusters?	Seven
12	No. of villages and farmers in each cluster	7 villages & 5-9 farmers in each clusters
13	Land situation (irrigated, rainfed, others specify)	Irrigated
14	Name of variety/varieties demonstrated	RH 749
15	Technologies/package of practices demonstrated in each cluster	Seed 5 kg/ha + Sulpher 12.5 Kg/ha + Pendamethelene 2.5 lt/ha + Neem oil 1 lit/ha + Carbendazim 12% WP 1kg/ha
16	Sowing date/dates as per clusters	Cluster 1,2,3 & 4- 15 to 30 September, & Cluster 4, 5,6 & 7 - 17 to 25 October, 2020
17	Number of field operations taken so far like manuring, weeding, irrigation etc. and name them with approximate date/week	**Plant protection schedule-** Pre emergence : Spray Pendametelene 2.5 lt/ha. to control of weeds 40-45 days : Broadcasting of Sulpher 12.5 Kg/ha

		55 days : Spray of Carbendazim 12% WP 1kg/ha 70 days : Spray of Neem oil 1 lit/ha to control of aphids
18	Stage of the crop	Vegetative stage
19	Expected harvesting date/dates as per clusters	15 to 30 March , 2021

III. Details on cluster FLD farmers

IV. Critical inputs provided for demonstration

Sl. No.	Critical inputs	Name of critical input	Quantity	Value (Rs.)	No. of farmers	No. of villages	No. of clusters
1	Seeds (name variety) (RH-749)	Seed	5.0 Kg.	500.00	25	11	11
2	Micro-nutrients	Sulphur	25 Kg/ha.	115.00	25	11	11

V. Training programmes organized

Sl. No.	Date	Type of training (on/off campus)	Title of training programme	Participant farmers (general)-A			Participant farmers (SC/ST)-B			Total participants (A+B)		
				Men	Women	Total	Men	Women	Total	Men	Women	Total
1.	11.09. 2020	On campus	Technical farming in Mustard	20	-	20	5	-	5	25	-	25
2.	05.01. 2020	Off Campus	Integrated weed management in Mustard	20	-	20	5	-	5	25	-	25

VI. Extension activities including field visits organized

Sl.No.	**Date**	Name of extension activity	Participant farmers			Participant extension personnel		
			Men	Women	Total	Men	Women	Total
1.	10.12.2020	Field visit	5	-	5	5	-	5
2.	21.12.2020	Field visit	4	-	4	4	-	4
3.	22.01.2021	Field visit	10	-	10	10	-	10
4.	15.02.2021	Field visit	7	-	7	7	-	7

VII. Performance (results) of the demonstrations

(A) General information

Name of the crop	**Demos (No.)**	**Variety**		**National average yield (q/ha)**	**State average yield (q/ha)**	**District average yield (q/ha)**	**Characteristics of the demo variety**	**Potential yield of the demo variety (q/ha)**	**Yield gap – I (%)**	**Yield gap – II (%)**
		Check	**Demo**							
Mustard (Rabi 20-21)	75	Pusa Bold	RH-749	7.8	11.36	11.05	1. One time maturity 2.High yielding variety	24	30.75	41.63

(B) Yield and net returns

Yield obtained (q/ha)						**Yield increase (%)**	**Expenditure and returns (Rs./ha)**								**Net returns increase (%)**
Check			**Demo**				**Check**				**Demo**				
Max.	Min.	Av.	Max.	Min.	Av.		Gross Cost (Rs/ ha)	Gross return (Rs/ ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ ha)	Gross return (Rs/ ha)	Net Return (Rs/ha)	B:C ratio	
15.75	12.89	14.32	18.45	13.85	16.15	12.77	23850	63366	39516	1:2.65	24450	71463	47013	1:2.92	18.97

Sale rate – Rs.4425 /q

(C)Results on specific technologies other than varieties

(D) Socio-economic impact parameters

Sl. No.	Parameters	Crop-1	Crop-2	Crop3
1	Name of the crop	Mustard		
2	Variety	RH-749		
	No. of clusters	11		
3	No. of farmers	75		
4	Total area (ha)	30.0		
8	Selling price (Rs./q)	4425		

VIII. Observations and feed-back

(a) Observations by Scientist(s) from KVK-Higher oil content up to 42 %

(b) Farmers opinion/feed-back- High Yielding Variety

IX. Quality photographs for all activities to be submitted along with this format

Cluster Frontline Demonstrations on pulses under NFSM 2020-2021

I. General Information

1	Name of the KVK	Hastinapur (Meerut)
2	Year of establishment	1992
3	Host Institution	S.V.P. University of Agriculture & Technology, Meerut (U.P.)
4	Address for communication including phone and fax numbers	KVK, Hastinapur (Meerut)
5	District	Meerut
6	State	Uttar Pradesh

II. Cluster FLDs on Lentil under NFSM (Rabi 2020-21)

1	Name of the crop	Lentil
2	Season and year	Rabi 2020 -21
3	No. of FLDs (farmers) sanctioned	25
4	No. of FLDs (farmers) conducted	25
5	Area (ha) sanctioned	10
6	Area (ha) actually conducted	10
7	Sanctioned budget (Rs.)	129511.00
8	Budget received actually (Rs.)	0.00.00
9	Actual expenditure (Rs.)	41000.00
10	Balance amount (Rs.)	88511.00
11	FLDs implemented in how many clusters?	Six
12	No. of villages and farmers in each cluster	3 villages & 5-9 farmers in each clusters
13	Land situation (irrigated, rainfed, others specify)	Irrigated
14	Name of variety/varieties demonstrated	PL 8
15	Technologies/package of practices demonstrated in each cluster	Seed 30 kg/ha
16	Sowing date/dates as per clusters	Cluster 1,2,3 - 2 to 10 November, & Cluster 4, 5,6 - 12 to 20 Nov, 2019
17	Number of field operations taken so far like manuring, weeding, irrigation etc. and name them with approximate date/week	**Plant protection schedule-** 80 – 90days **:** Spray of Flubendamide 39.35 SC 125 ml/ha
18	Stage of the crop	Sowing time
19	Expected harvesting date/dates as per clusters	-

III. Critical inputs provided for demonstration

Sl. No.	**Critical inputs**	**Name of critical input**	**Quantity**	**Value (Rs.)**	**No. of farmers**	**No. of villages**	**No. of clusters**
1	Seeds (name variety)	PL-8	12 kg/acre	1680.0	50	15	06

IV. Training programmes organized

Sl. No.	Date	Type of training (on/off campus)	Title of training programme	Participant farmers (general)-A			Participant farmers (SC/ST)-B			Total participants (A+B)		
				Men	Women	Total	Men	Women	Total	Men	Women	Total
1.	25.11.20	On campus	Agronomics practices of Lentil	15	-	15	05	-	05	20	-	20
2.	04.12.20	On campus	Agronomics practices of Lentil	13	-	13	07	-	07	20	-	20

V. Extension activities including field visits organized

Sl. No.	**Date**	Name of extension activity	Participant farmers			Participant extension personnel		
			Men	Women	Total	Men	Women	Total
1.	05.12.20	Visit of Demonstration field	20	-	20	02	-	02
2.	12.01.21	Visit of Demonstration field	20	-	20	03	-	03
3.	24.02.21	Visit of Demonstration field	20	-	20	03	-	03

VI. Performance (results) of the demonstrations

(A) General information

Name of the crop	Demos (No.)	Variety		National average yield (q/ha)	State average yield (q/ha)	District average yield (q/ha)	Characteristics of the demo variety	Potential yield of the demo variety (q/ha)	Yield gap – I (%)	Yield gap – II (%)
		Check	Demo							
Lentil (Rabi 20-21)	25	Local	PL-8	6.33	7.15	10.53	1. Disease resistance. 2. One time maturity	17.00	12.64	23.90

(B) Yield and net returns

Yield obtained (q/ha)						Yield increase (%)	Expenditure and returns (Rs./ha)								Net returns increase (%)
Check			Demo				Check				Demo				
Max.	Min.	Av.	Max.	Min.	Av.		Gross Cost (Rs/ ha)	Gross return (Rs/ ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ ha)	Gross return (Rs/ ha)	Net Return (Rs/ha)	B:C ratio	
12.75	10.34	11.54	14.65	11.95	13.30	15.25	31350	55392	24042	1:1.76	32475	63840	31365	1:1.96	30.45

(C) Socio-economic impact parameters

Sl. No.	Parameters	Crop-1	Crop-2	Crop3
1	Name of the crop	**Lentil**		
2	Variety	**PL-8**		
3	No. of clusters	**09**		
4	No. of farmers	**25**		
5	Total area (ha)	**10**		
6	Selling price (Rs./q)	**4800**		

VII. Observations and feed-back

(a) Observations by Scientist(s) from KVK- Less incidence of disease

(b) Farmers opinion/feed-back-

1. Maturity stage 125days
2. Low water requirement
3. High yielding variety in comparisons to old variety

VIII. Visitors to cluster FLDs/study tours etc.-

IX. Visitors to cluster FLDs/study tours etc.

Programmes under NARI – Year 2020

TRAINING PROGRAMMES

Clientele	No. of Courses	Female	Total participants
Technology Assessment	01	10	10
FLDs	02	20	20
Training Programmme	10	200	200
	13	**230**	**230**

I. TECHNOLOGY ASSESSMENT

Technology Assessed: Assessment of house hold food security through nutritional garden

Technology Option	No. of trials	Yield (kg/100 sqm)	Increase yield (%)	Performance indicators		Cost of cultivation (Rs)	Gross return (Rs)	Net Profit (Rs)	B:C Ratio
				Indicator	Performance				
Production of some leafy and cucurbitaceous vegetables only (Farmers Practice)	10	45	--	• Availability of green vegetables • General health • Disease occurrence	65 days Comparatively poor Comparatively more	250	1125	875	4.5
Enhance household food security through Nutritional Garden throughout the year		120	166	• Availability of green vegetables • General health • Disease occurrence	245 days Comparatively good Comparatively less	450	3000	2550	6.6

Sale Price: @ Rs 25 per kg

II. Details of FLDs implemented during year 2020

SN	Crop/ Enterprise	Thematic area	Technology Demonstrated	Season / year	Area (ha)	No. of farmers/ demonstration
						Total
1	Kitchen garden	House hold food security	Demonstration of well planned Kitchen Garden (100 m^2)	Rabi 2019-20	0.1	10
2	Mango	Value addition	Preparation of Mango Pickle	Kharif 2020	-	10

Thematic area	Tech. demonstrated	Yield (Kg)		% change in yield	Economics of demonstration (Rs./kg)				Economics of check (Rs./kg)			
		Demo.	Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
House hold food security	Kitchen gardening	120	35	242	450	3000	2550	1:6.6	250	875	625	1:3.5

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Yield (Kg.)	Economics of demonstration (Rs/.kg)			
				Demo.	Gross Cost	Gross Return	Net Return	BCR (R/C)
Mango	Value addition	Preparation of Mango Pickle	10	5	250	750	500	1:3.0

@ Rs. 150/kg

Poshan Mah-2020

1.Date of event organised	17.09.2020
2. Title of the event	Celebrating Poshan Maah
3. Objective of the event organised	• Celebrating Poshan Maah • Emphasis on Poshan Thali • To create awareness among Aaganwadi and Farm Women to establish Nutrition Garden
4.Text Write-up information	In this occasion 56 Aaganwadi Worker and 14 farm women participated in the programme. The chairmen Hastinapur was the chief guest in this programme. Vegetable seeds kits sponsored by IFFCO were distributed to the participants.

1.Date of event organised	18.09.2020
2.Title of the event	Awareness programme on Kitchen Gardening
3.Objective of the event organised	• To Establish Nutrition Garden • To motivate Aaganwadi workers and Farm Women to establish Roof Top Gardening.

1.Date of event organised	22.09.2020
2.Title of the event	Awareness programme on Balance Diet and How to save Nutrient during Cooking
3.Text Write up information	Balance diet How to save Nutrient during cooking
4.Programme Details	Demonstration through poster presentation on balance diet and How to save Nutrient during processing 15 Aaganwadi Workers 12 farm women and rural youth participated the programme at KVK Hastinapur Meerut

1.Date of event organised	28.09.2020
2.Title of the event	Nutritional Importance & Home level preparations from Moringa (Sahjan)
3.Text Write up information	lgtu gS vkS'kf/k dk HkaMkj lgtu dh iRrha] lw[kh iRrh vkSj Qyh dk mi;ksx
4.Programme Details	Village – Samaspur . In this occasion 10 Aaganwadi Worker and 12 farm women participated the programme.

Celebration of International Mahila Diwas

A programme has been conducted on Poshan awareness Progrmme for rural farm women on the occasion of International Mahila diwas on 08 March 2020

SN	Name of Activity	No. of Activity	No. of participants
1.	Awareness Programme at village level	15	298
2	Awareness Programme at KVK	06	106
3	Dusting & Cleaning of centre	Regular	
4	Hand sanatization programme	01	78

Skill Development Training

SN	Name of Job role	No. of trainees	Concern Scientist
1.	Vermi Compost Producer	20	Dr. Shiv Kumar
2	Nursery worker	20	Dr. Virendra pal

XVI Achievement of Special programmes

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

S. No.	Name of QP/Job role	Duration (hrs)	No. of Courses Organised	No. of Participants						
				SCs/STs		Others		Total		TOTAL
				Male	Female	Male	Female	Male	Female	
1	Nursery Worker	200		9		11				20
2	Vermicompost Producer	200		11		9				20
	TOTAL									

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		
1.	Awareness programmes conducted at Village Panchayat/ Block/ District Level		
2.	Mobilization of schools and colleges through essay completion,		

	painting, debate etc.		
3.	Demonstration conducted (ha)		
4.	Training Programmes conducted		
5.	Exposure visits organized		
6.	Field /harvest days organized		
	Total		

b) Other IEC activities organized under CRM Project by KVKs

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

3) Achievement of TSP (Tribal Sub Plan)

Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		Number of farmers involved			Participants in extension activities (No.)	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains (Number in lakh)	Production of fingerlings (Number in lakh)	Testing of Soil, water, plant, manures samples (Number)
No. of Trainings/Demos	No. of Farmers	No. of Trainings/Demos	No. of Women Farmers	No. of Trainings/Demos	No. of Youths	No. of Trainings/Demos	No. of Ext. Person	On- farm trials	Frontline demos	Mobile agro-advisory to farmers						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

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

Number of Adopted Villages	No. of Activities		No. of farmers benefited	
	Demo	Training	Demo	Training

5) Achievements of SCSP KVKs

Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		Number of farmers involved			Participants in extension activities (No.)	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains (Number in lakh)	Production of fingerlings (Number in lakh)	Testing of Soil, water, plant, manures samples (Number)
No. of Trainings/Demos	No. of Farmers	No. of Trainings/Demos	No. of Women Farmers	No. of Trainings/Demos	No. of Youths	No. of Trainings/Demos	No. of Ext. Person	On- farm trials	Frontline demos	Mobile agro-advisory to farmers						

6) Achievement under IFS KVKs

Sl. No.	IFS (Component Name)	No. of IFS established	Area (ha)	Number of Activities		No. of farmers benefited	
				Demo	Training	Demo	Training
1							
2							
3							

7) Achievements under Mera Gaon Mera Gaurav (MGMG) project

No. of institutes/ universities involved	Total No of Groups/team formed	No. of Scientists Involved	No. of villages covered	No. of field activities conducted	No. of messages/ advisory sent	Farmers benefited (No.)

8) Achievements of Farmers FIRST programme

NRM Module		Crop Module		Horticulture Module		Livestock & Poultry			IFS Model		Extension Activities	
Demon.	No Farm Families	Demon.	No Farm Families	Demon.	No Farm Families	Demon.	No Farm Families	No of Animals	Demon.	No Farm Families	No. of prog	Farmers

9) Activities performed under NARI programme

Activities	Number of activity	No. of farmers/ beneficiaries
OFTs – Nutritional Garden (activity in no. of Unit)	02	20
OFTs – Bio-fortified Crops (activity in no. of Unit)	01	10
OFTs – Value addition (activity in no. of Unit/Enterprise)	01	05
OFTs - Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)	01	05
FLDs – Nutritional Garden (activity in no. of Unit)	01	10
FLDs – Bio-fortified Crops (activity in no. of Unit)	01	10
FLDs – Value addition (activity in no. of Unit/Enterprise)	01	10
FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)	-	-
Trainings	11	220
Extension Activities	04	60
Grand Total	**23**	**350**

10) 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					
Water					
Plant					
Manure					
Total					

11) Achievements under NICRA Project

NRM		Crop production		Livestock & Fisheries			Capacity Building		Extension Activities	
Demo	Area (ha)	Demo	Area (ha)	Demo	Area (ha)	No. of animals	No of Courses	Farmers	No. of programmes	Farmers

12) Achievements under ARYA Project

Name of entrepreneurial units	No. of entrepreneurial units established	No. of Training programs organised	No. of rural youth trained		No. of youth established units	
			Male	Female	Male	Female
Mushroom production						
Fruits and vegetable processing units,						
Horticulture nursery						
Fish farming						
Poultry						
Goat farming						
Piggery						
Duck farming						

Bee keeping						
Others if any						

13) Achievements under Rainwater Harvesting Structures

Sr. No.	Activities	Number
1	Training programmes	
2	Demonstration	
3	Plant materials produced	
4	Visit by farmers	
5	Visit by officials	

14) Achievements under Pulses Seed Hub programme

Season/Crop	Name of Pulse crop	Variety	Production			Category of seed (F/S, C/S)
			Target (q)	Area sown (ha)	Actual Production (q)	
Kharif	Black gram					
	Green Gram					
	Pigeon pea					
Total (Kharif)						
Rabi	Chick pea					
	Field pea					
	Lentil					

Total (Rabi)						
Summer	Black gram					
Total (Summer)						
Grand Total						

15) 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

16) Achievements under CSISA (Cereal System Initiative for South Asia) project

S.No.	Name of Programme	Number/quantity
1	Plantation by paddy uppulling	
2	DSR	
3	Laser leveler	
4	Training	
5	Kisan Mela	
6	Seminar	
7	Seed production (q)	

17) Achievements under NIFTD (National Initiatives for fodder technology demonstrations)

Name of fodder	Variety	Production (q)	Training courses	No. of farmers benefitted

18) Achievements under Swachhata Abhiyan Mission

S.No.	Items	No. of Programmes	No. of persons paticipated
1	Toilet maintenance		
2	Road, drain cleaning		
3	Garbage disposal		
4	Door to door awareness		
5	Awareness campaign		
6	Nookkad Drama		
7	School Drama		
8	School rally		
9	Writing paining slogans		
10	Composting		
11	Other		
12			
13			

19) Achievements under Aspirational District Scheme

Name of programme	Number
Training	
Session No.	

No. of farmers	
Officers/staff involved	
Seed & Plant Distribution	
Programme number	
Seed distribution in q	
No. of plant distributed	
Biological products distributed	
No. of programme organised	
No. of farmers	
Officers/staff involved	
Animal husbandra & fish distribution programme	
Vaccination	
Medicine for control of parasite	
Distribution of mineral mixure	
No. of farmers	
Officers/staff involved	

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.

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