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PROFORMA FOR PREPARATION OF ANNUAL REPORT (January-2022-December-2022)

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	80	1209	391	1600
Rural youths	08	50	40	90
Extension functionaries	18	233	67	300
Sponsored	04	168	32	200
Total	110	1660	530	2190

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	45	24.0	02 Buffaloes
Pulses	125	45.0	Mushroom Unit
Cereals	30	12.0	01 NADEP
Vegetables	15	6.0	Vermi Compost
Commercial Crops	40	16.0	Fish Pond ,
Hybrid crops	15	4.40	Jagery Unit
Resource Conservation	15	6.0	
Total	285	113.4	
Livestock & Fisheries		-	
Other enterprises	10	0.10	
Total	10	0.10	
Grand Total	295	113.5	

3. Technology Assessment

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
Crops	07	36	18
Resource Conservation	02	12	06
House hold food security	02	20	10
Total	11	68	34

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	924	11507
Other extension activities	66	Mass
Total	990	11507

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
Meerut	Text only	440	15	11	22	68	53	609
	Voice only	1830	38	54	30	706	288	2946
	Voice & Text both							
Total farmers Benefitted		2270	53	65	52	774	341	3555

Name of Discipline	You-Tube	
	No. of vedios	No. of Subscribers
Plant Protection	83	57700
Total	83	57700

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.	Distributed to No. of farmers
Seed (q) (Wheat)	120.00	240000	NSC
Mustard	13.44	91000	Auction
Livestock Production Fodder	-	119000.00	
Milk Production	854.100 lit	38732.00	
Mushroom production (No.)	50 Kg	4400.00	--
Vermi Compost	470 Kg.	3760.00	Use in KVK farm

7. Soil, water & plant Analysis

Type of Samples	No. of samples analysis	No. of Beneficiaries	Value Rs.
Soil	410		61500
Water	-		-
Plant	-		-
Total	410		61500

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	04
2	Conferences	02
3	Meetings	12
4	Trainings for KVK officials	06
5	Visits of KVK officials	08
6	Book published	-
7	Training Manual	03
8	Book chapters	02
9	Research papers	03
10	Lead papers	0
11	Seminar papers	01
12	Extension folder	10
13	Proceedings	02
14	Award & recognition	0
15	On going research projects	02
16	Technical Bulletin	-
17	Technical Report	06

DETAIL REPORT OF APR (Jan. 2022 to December 2022)

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	
Sardar Vallabhbhai 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, 2022)

S N	Sanctioned post	Name of the incumbent	Designation	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	211800	07.01.2004	Permanent	OBC	9412109215	omvirsvp@gmail.com
2	Subject Matter Specialist	Dr.(Engg.) Sanjay Singh	Assoc. Professor	Agri. Engg.	15600-39000	156900	10.12.2003	Permanent	Gen	8279642419	sanjaytwofour@gmail.com
3	Subject Matter Specialist	Dr.Rakesh Tiwari	S.M.S/ Asstt. Prof.	Soil Science	15600-39000	101100	21.06.2008	Permanent	Gen	9411820189	191rakeshtiwari@gmail.com
4	Subject Matter Specialist	Smt. VeenaYadav	S.M.S/ Asstt. Prof.	Home Science	15600-39000	89900	23.06.2008	Permanent	OBC	9457263482	veenayadav1020@gmail.com
5	Subject Matter Specialist	Dr. Naveen Chandra	S.M.S/ Asstt. Prof.	Entomology	15600-39000	104100	23.06.2008	Permanent	OBC	9450803857	nchandra120@gmail.com
6	Programme Assistant	Smt. Vibha Sahu	Prog. Assistant	Computer	9300-34800	78800	21.10.1999	Permanent	OBC	9410456174	vibha.sahu1@gmail.com
7	Programme Assistant	Dr. Ashish Tyagi	Prog. Ast./ Farm Manager	Plant Protection	9300-34800	53600	22.07.2008	Permanent	Gen	9837474493	green.ashishtyagi@gmail.com
8	Accountant / Superintendent	Sh Amit Chaudhary	O.S. Cum Accountant	-	9300-34800	70000	10.12.2003	Permanent	OBC	9761444004	amitsvpuat@gmail.com
9	Stenographer	Sh. Sudesh Kumar	Steno	-	5200-20200	46800	15.12.2003	Permanent	SC	9457273887	Sudeshmeerut123@gmail.com
10	Driver	Sh. Upendra Kumar	Jeep Driver	-	5200-20200	33300	02.08.2007	Permanent	OBC	9837194455	-
11	Supporting staff	Sh. Hari Das	Sweeper	-	5200-20200	38600	01.07.1998	Permanent	SC	9760855760	-

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:

A) Buildings

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

1.8. A). Details of SAC meeting - 14 November 2022

Scientist Advisory Committee Meeting of KVK, Meerut has been organized on 14, November, 2022 in the Chairmanship of Hon'ble Vice Chancellor of the University. Total following 41 participants participated in the meeting and submit there valuable suggestions .

A. Details of Participants:

Total No.Participants:41

S. No.	Name of Participants	Designation	Department
1	Dr. K.K. Singh	Vice Chancellor, SVPUA&T, Meerut	SVP Univ. of Agric. & Tech. Meerut
2	Dr. P.K. Singh	Director , SVPUA&T, Meerut	Director of Extension
3	Dr. P.K.singh	Assoc. Professor,	SVP Univ. of Agric. & Tech. Meerut
4	Dr. Umesh Singh	Principal Scientist	ICAR-CIRC
5	Dr. Hariom Katiyar	Assoc. Professor,	SVP Univ. of Agric. & Tech. Meerut
6	Dr. Gam Pal Singh	DHO	Department of DHO Office
7	Sh. Shodan Singh	Farmer	Village – Amhera
8	Sh. Narendra Singh	Farmer	Village – Mahmoodpur
9	Sh Bharat Singh	Farmer	Village – Andawali
10	Sh Mange Ram	Farmer	Village – Andawali
11	Sh Kanshiram	Farmer	Village – Rahmapur
12	Sh Gajendra	Farmer	Village – Rahmapur
13	Sh Suneel Kumar	Farmer	Village – Rahmapur
14	Sh Suboth Kumar	Farmer	Village – Rahmapur
15	Sh Subodh Kumar	Farmer	Village – Rahmapur
16	Sh Lalit Tyagi	Farmer	
17	Sh Jai Kumar Yadav	Farmer	
18	Sh Rajendra Singh	Farmer	
19	Smt Meera	Farm Women	Village- Hastinapur
20	Smt Sushmita	Farm Women	Village- Malipur
21	Sh Shiv Kumar	Farmer	Village – Andawali
22	Sh Sauveer Singh	SC&I Mawana CDCO	Department of Sugarcane
23	Sh Shailaesh Kumari	Student	B.Sc, Ag, SVPUAT, Meerut
24	Anshikha	Student	B.Sc, Ag, SVPUAT, Meerut
25	Anjali Chauhaan	Student	B.Sc, Ag, SVPUAT, Meerut
26	Shrishti Chauhaan	Student	B.Sc, Ag, SVPUAT, Meerut
27	Sakshi Yadav	Student	B.Sc, Ag, SVPUAT, Meerut
28	Nikita Yadav	Student	B.Sc, Ag, SVPUAT, Meerut
29	Arushi Maurya	Student	B.Sc, Ag, SVPUAT, Meerut
30	Riya Yadav	Student	B.Sc, Ag, SVPUAT, Meerut
31	Anshika	Student	B.Sc, Ag, SVPUAT, Meerut
32	Dr. Sanjay Kumar	Associate Director (Agric. Engg.)/ Officer Incharge	KVK, Hastinapur, Meerut
33	Dr. Rakesh Tiwari	SMS/Asstt. Professor (Soil Sc.)	KVK, Hastinapur, Meerut
34	Dr Naveen Chandra	SMS/Asstt. Professor (PP.)	KVK, Hastinapur, Meerut
35	Smt. Veena Yadav	SMS/Asstt. Professor (Home Sci.)	KVK, Hastinapur
36	Dr Mahesh Kumar	SMS/Asstt. Professor (Home Sci.)	KVK, Hastinapur

37	Dr. Ashish Tyagi	Prog. Asstt./Farm Manager	KVK, Hastinapur
38	Smt Vibha Sahu	Prog. Asstt./Computer	KVK, Hastinapur
39	Sh. Amit Chaudhary	Accountant	KVK, Hastinapur
40	Sh. Sudesh Kumar	Steno Cum/ Comp Operator	KVK, Hastinapur
41	Sh Upendra Kumar Yadav	Driver	KVK, Hastinapur

Recommendation and suggestions

1. Honorable Vice-Chancellor wanted to know about the hostel located at KVK Farm whether it is being used or not. In this regard, the Vice-Chancellor was informed that at present the condition of the farmers' hostel is not usable because due to previous several years, no budget related to the maintenance of the hostel has been allocated by the ICAR.
2. Honourable Vice-Chancellor were informed about the technique used related to crop residue management and related agricultural machinery. In this regards it was informed that this year the project was transfer by ICAR from KVK Hastinapur, Merrut to KVK Shahjahanpur as per the instructions issued by Director ATARI, Kanpur . Is. Earlier, demonstration of available machines was being done by the scientist of KVK Hastinapur on farmers' fields.
3. It was informed to the Honourable Vice-Chancellor about the nursery raised at KVK farm that the said nursery would be made available to the farmers on the sale basis at the market rate.
4. Dr. Ashish Tyagi, Field Manager, informed about the constrains of the 'KVK farm that due to lack of bund surrounding the field, the problem of water logging is reducing the production of the field year by year. Due to the specific location of the field in the Hastinapur forest century, there are monkey related crop losses issues. The crop related losses are increasing year by year. Discussing about its diagnosis of the problems, Dr. Tyagi suggested that a low current & high voltage electric shock machine should be installed around the field by fencing wire, as to protect the crops on the field from domestic, wild animals like Neel Gai, Monkeys etc.
5. Director Extension suggested that the problems of the field should be resolved by establishing contact with the District Officer and other related departments.
6. In order to prevent the loss in orchard of mango and guava, planted under the high density orchard method, Honorable Vice-Chancellor suggested, the cultivation of dragon fruit and strawberry. It was endorsed by District Horticulture Officer Mr. Gam Pal Singh as an alternative. In this context, suggestions comes from the member of SAC that the youth should be encouraged for the cultivation of dragon fruit and strawberry.
7. A joint discussion was held between Director Extension and District Horticulture Officer on the proposal of setting up a hi-tech nursery on the Krishi Vigyan Kendra and University premises.
8. The Director of Extension emphasized on the propagation of various agricultural techniques to the farmer field by rigorous effort of the scientist which are established on the KVK field such as IFS, water conservation, vermin compost, animal husbandry, fish farming etc. to reach among the farmers.
9. In relation to the performance of organic, natural, and technology opted by the farmers, Honorable Vice-Chancellor and Director of Extension suggested that before crop production and after harvesting, the soil testing of micro-organism and organic matter must be done by contacting IARI, New Delhi and interpret the result.

10. Demonstrations of related subjects at farmers field and KVK farm should also be included in the employment-oriented training for rural youth and farm women, so that the trainees can easily understand and adopt the benefits of technology. Also write the success story of a successful trainee related to this.
11. Honorable Vice-Chancellor wish to know about the agricultural chemicals to be used by drones on which of the crops in this area. In this regard, the Director of Extension informed that the drone will be mainly used for sugarcane crop and will be made available to the farmers soon after purchase, initially the drone will be used free of cost for the farmers, after that economics and fee of operation will be decided.
12. For employment-oriented training based on Home Science subject, the Home Scientist was directed by the Honorable Vice-Chancellor to provide training to women and girls related to different types of products made by different processing techniques with coarse grains and soybean. The product made by women should not be confined to their homes, but it also be used as an entrepreneur by selling products in the market. The home scientist was asked to have hand on latest processing training from ICAR-IIMR and Central Institute of Agricultural Technology (Bhopal) on various products of soybean processing.
13. It was suggested by the farmer representatives of the Scientific Advisory Committee that whatever new technology scientists give to the farmers, it should be tested on the KVK or farmer's fields so that the farmers are well aware regarding the advantages and disadvantages of this technology and also got ability to estimate the pro and cons. Efforts should be made to connect the youth for farming in selecting the demonstration field by the KVK Scientist on priority bases so that the youth can also be attracted towards farming.
14. The Associate Director/Associate Professor (agricultural engineering) has been asked by the VC Sir to prepare a project related to custom hiring farm machines under RKVY scheme and submit it.
15. It was directed by Honorable Vice-Chancellor to take RAWE students on tour to the village so that they can be fully engaged in the works RAWE activities. The director of extension should inform the students of RAWE about the testing procedure of soil samples.
16. Honorable Vice-Chancellor directed that the number of members in self-help groups should be increased.
17. The Vice-Chancellor directed the Director of Extensions to established a call centre at the earliest so that the scientists of the University, Krishi Vigyan Kendra will be connected through the telephonically by the farmer to diagnose the problems related to the crops and diseases.



2. DETAILS OF DISTRICT (31st December, 2022)

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	<p>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.</p> <p>2. The zone is highly productive with light coloured loam soil. The average annual rainfall is 795 mm.</p> <p>3. Relative humidity range from 32 to 85% and the temperature ranges from 2.5⁰ C to 43⁰C. Rice wheat sugarcane based cropping system is prevalent in the zone.</p>

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 (December , 2022)

SN	Crop	Area (ha)	Production (M.Ton)	Productivity (Qtl /ha)
1	Sugarcane	132624.0	122958363.0	927.12
2	Wheat	79931.0	378933.0	47.41
3	Paddy	14.761	48095.0	32.58
4	Maize	304.0	996.0	32.76
5	Barely	109.0	436.0	40.0
6	Oil seed: Mustard	6309.0	9979.0	15.82
Pulses				
7	Urd	1604.0	2752.0	17.16
8	Gram	17.0	21.86	12.86
9	Moong	42.0	72.0	17.14
10	Pea	468.0	796.0	17.01
11	Lentil	700.0	824.0	11.77
12	Arhar	214.0	182.0	8.50
13	Others (Bajra)	26.0	53.0	20.38

2.5. Weather data (31st December, 2022)

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)	
		T min	T max	Rh1	Rh2
January	115.00	5.69	18.14	89.94	69.52
February	55.10	8.30	23.03	85.50	59.29
March	0.00	16.86	33.99	70.65	38.26

April	0.10	21.62	40.92	41.53	20.90
May	48.60	23.90	41.09	43.58	22.32
June	85.80	25.55	40.44	55.40	27.63
July	306.70	23.68	33.95	81.06	47.42
August	45.20	25.66	33.65	82.00	52.45
September	259	32.91	23.79	80	61.55
October	103.4	31.42	19.16	86.77	64.77
November	0.2	28.90	17.05	78.57	61.43
December	0.0	22.44	7.76	88.87	70.87

2.6 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

2.7 Details of Operational area villages 31st December, 2022

S N	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,	Sorghum, Potato, Wheat,	• Late sowing of sugarcane	• Intercropping with sugarcane

		Jhunjharpur, Nirpura	Mustard Livestock production (2-3-Graded buffalo / 1-Crossbred cow)	<ul style="list-style-type: none"> • Low production of milk in Cow and Buffaloes • Deficiency of miner elements and organic matter in soils • Attack of white grub in sugarcane 	<ul style="list-style-type: none"> • Soil health management • Management of infertility and repeat heat in Cattle and Buffaloes
	Rajpura	Salarpur, Muzaffarpur Saini, Rajpura, Morna, Kastla, Mameypur, Incholi, Kaserukhera	Sugarcane, Pigeon pea, Potato & Wheat	<ul style="list-style-type: none"> • Reducing production area of pulses due to blue horse. 	<ul style="list-style-type: none"> • Weed management in Paddy and Wheat • Balance use of fertilizer
	Daurala	Nihori, Lawad, Mahalka, Macchri, Rasoolpur, Walidpur, Panvari, Meetheypur, Andawali, Eloi, Daurala, Rassolpur	Vegetables, Sugarcane, Wheat Mustard,	<ul style="list-style-type: none"> • Red rot and grassy shoot in sugarcane • No use of Potash and micro elements in crops 	<ul style="list-style-type: none"> • Crop residues management • Pest management in Paddy and Sugarcane • Disease management in vegetable crops.
	Meerut	Chandsara, Alipur, Gagol, Phafunda, Fatehullahpur, Noornagar, TarapuriRasidnagar	S/cane, Urd, Rice Wheat	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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.
Sardhana	Sardhana	Mahadev, Kushawli, Begumabad, Nahli, Pali	S/cane, Wheat, Vegetables, Flower	<ul style="list-style-type: none"> • Late sowing of sugarcane • Low production of milk in Cow and Buffaloes 	<ul style="list-style-type: none"> • Intercropping with sugarcane • Soil health management
	Suroorpur	Pawarsa, Ikdri, PanchiBuzurg	-do-	<ul style="list-style-type: none"> • Deficiency of miner elements and organic matter in soils 	<ul style="list-style-type: none"> • Management of infertility and repeat heat in Cattle and Buffaloes
	Rohta	Rohata, Arnavali, Rasana, Shahapur jain pur,	S/cane, wheat	<ul style="list-style-type: none"> • Attack of white grub in sugarcane 	<ul style="list-style-type: none"> • Weed management in Paddy and Wheat
	Jani	Baffar, Meerpur, MohammadpurDhumi, Khumbha, SiwalKhas, NaglaKumbha, Bhola Ki Jhal	S/cane, wheat, mustard, paddy &Urd	<ul style="list-style-type: none"> • Reducing production area of pulses due to blue horse. • Red rot and grassy shoot in sugarcane 	<ul style="list-style-type: none"> • Balance use of fertilizer • Crop residues management • Pest management in

2					<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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. • Mngt.of Mango orchards.
3	Mawana	Hastinapur	<p>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</p>	<p>Sugarcane, Wheat Rice, potato, Mustard, Chickpea, Urd, Moong</p>	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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.
		Parikshitgarh	<p>Geshupur, Bonda, Kalirampur, Neemka, Khajuri, Dhanpura, Jithola, Anwarpur, Kohla</p>	<p>Sugarcane, Wheat Rice, potato, Mustard, Chickpea, Urd, Moong</p>	<ul style="list-style-type: none"> • Unorganized marketing system of agriculture produce • Long dry period and 	<ul style="list-style-type: none"> • Crop productivity enhancement in late sown wheat. • Nutritional

		<p>Mawana Kala</p>	<p>Meewa, Assa, Matoura, Tatina, Niloha, Piona, Baizadka, Kunda, AkbarpurGhari, Bhaisa, Nidawali, Tigri, Geshupur, Sirjepur, Meerpur, AkbarpurShadat, Mubareekpur, NagalaAjedi, NagalaHareur, Phalawada, ChotaMawana,</p>	<p>Sugarcane, Wheat, Rice, potato, Mustard, Chickpea, Urd, Moong</p>	<p>infertility in milch animals</p> <ul style="list-style-type: none"> • 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 	<p>management among farm women and children</p> <ul style="list-style-type: none"> • Introduction of HYV/Hybrids in vegetables. • Promotion of green manuring. • Managements of Mango orchards. • Intercropping with sugarcane • Soil health management
		<p>Machara</p>	<p>MaukhasHasanpur, Kaili Rampur, Dabthala, Behlolpur, Shahjahanpur,</p>	<p>Crops, Vegetables, Bee keeping</p>	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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

2.8 Priority Thrust Areas

S N	Crop/Enterprise	Thrust area
1	Doubling farmers income	Intercropping with winter planting sugarcane
2	Wheat, Paddy, Sugarcane	Promotion of natural farming
3	Vegetable & field crop	Promotion of Drone technology
4	Vegetable & field crop	Promotion of Nano Urea application in crops
5	Nutritional security	Promotion of millets & bio fortified varieties of vegetables in human diet
6	Pulses	Promotions of pulses as intercrop with sugarcane.
7	Resource Conservation	Management of crop residues
8	Integrated Pest Mangt.	Biological control of diseases and pest management
9	Soil Health Mangt.	Soil testing based application of fertilizers

2.9 Intervention/ Programmes for the doubling the farmers income – Submitted 110 DFI stories



TECHNICAL ACHIEVEMENTS

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

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
12	11	40	68	100-- 200	113.5	200	295

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	80	2000	1600	500	924	5000	11507
Rural youth		08		90				
Extn. Functionaries		18		300				
Sponsored		04		200				
		110		2190	500	924	5000	11507

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	120 (Wheat)	NSC	200	-	-
	13.44 (Mustard)	Auction			

Soil/plant/water Analysis		
5		
Target	Achievement	No. of farmers covered
1200	410	410

TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs (January to August 2022)

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Crop Management	Mustard	Assessment of intercropping of Mustard in Sugarcane.	06	03
Integrated Nutrient Management	Wheat	Assessment of fertilizer dose in Wheat (DBW-173) (2021-22)	06	03
Integrated Nutrient Management	Wheat	Assessment of fertilizer dose in Wheat (DBW-173) (2022-23)	06	03
Resource Conservation Technology	Sugarcane	Assessment of Trench Planting techniques of Sugarcane	06	03
	Wheat	Assessment of effect of wheat sowing after in Situ crop residue management.	06	03
Nutrition security	Wheat	Assessment of the effective supplementation of fortified wheat flour for improvement of nutritional status of farm women.	10	05
Small Scale Income Generation Enterprises & Nutritional Management	Pulses	Value addition of pulse and vegetables – Preparation of badi	10	05
Integrated Pest Management	Sugarcane	Assessment of insecticides to control early shoot borer in Sugarcane	06	03
	Paddy	Assessment of fungicides to control sheath blight.	06	03
Nutritional Management	Wheat	Assessment of bio fortified variety(WB-02) of wheat	06	03
Integrated Nutrient Management	Paddy	Assessment of fertilizer dose in Paddy. (Pusa 1509)	06	03
Total			74	37

I.C. TECHNOLOGY ASSESSMENT & REFINEMENT IN DETAIL

INTEGRATED CROP MANAGEMENT

On Farm Trial –1

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 ratio. 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.



20



On Farm Trial –2

THEMATIC AREA: INTEGRATED NUTRIENT MANAGEMENT

Problem definition: Imbalanced use of Fertilizer in late sown wheat. (2021-22)

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	42.60	-	49507	89460	39953	1:1.81
T ₂ -N:P:K:Zn:S:Fe@ N,P,K, Zn & S- 120:60:40:30 & 25 kg/ha.)		46.90	10.09	51490	98490	47000	1:1.92

Variety DBW-173 Sale price Wheat @ Rs. 2100 /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
Sanjeev Kumar	7.58	0.27	0.28	12.9	140	5.9	0.38	0.59	1.2	4.9	5.7
Praveen Kumar	7.55	0.22	0.31	20.4	135	4.8	0.35	0.57	1.1	5.1	5.2
Amrish	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 –3

THEMATIC AREA: INTEGRATED NUTRIENT MANAGEMENT

Problem definition: Imbalanced use of Fertilizer in late sown wheat. (2022-23)

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 150:60:0:0)	06	Result awaited					
T ₂ -N:P:K:Zn:S:Fe@ N,P,K, Zn & S- 100:60:40:25 & 20 kg/ha.)							

Variety DBW-173

On Farm Trial –4
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. Where as the traditional 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	894	-	98200	281610	183410	2.27
T ₂ : Trench method		1121	25.39	108000	353115	245115	3.27

Sale price of Sugarcane: Rs 315/qt.

Feed Back: *The method of Trench* planting was found better and gave Rs. 71505.00 additional income/ ha



On Farm Trial –5

THEMATIC AREA: Sowing of wheat after incorporation of crop residue

Problem diagnosed : Burning of crop residues (Paddy Straw)

Technology Assessed: Assessment of effect of crop 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 06 treatments under field condition. Data was collected 9.6 % more yields was obtained in corporation of paddy straw in the field as compare to burning of paddy straw .

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	47.8	-	24900	92015	67115	1:3.70
T ₂ : Sowing of wheat after incorporation of crop residue by mulcher		52.4	9.6	26400	100870	74470	1:3.82

Sale price of Wheat: Rs 1925/qt.

Feed Back: In treatment no, T₂ recorded maximum yield as 52.4 q/ha which is 9.6 % more than non adoption of the practices. Resulting the techniques obtained net profit of Rs. 74470 as compared to Rs. 67115 in farmers practice, B.C ration is also more as 3.82 as compared to 3.70.



On Farm Trial –6
THEMATIC AREA Nutritional Security

Problem definition: Nutrient inadequacy

Technology Assessed: : Assessment of the effective supplementation of fortified wheat flour for improvement of nutritional status of farm women

Technology Option	No. of trials	Performance indicators	
		Indicator	Performance
T ₁ - Farmer practice – Wheat flour only	10	Estimation of nutritional value	Result awaited
T ₂ - Fortified - wheat flour (75 %) + gram Flour (20%) + Barley (5 %) for 180 days		Hemoglobin Level	
		Adoption & Technology	



On Farm Trial –7

THEMATIC AREA: HOUSE HOLD FOOD SECURITY

Problem definition: Nutrient inadequacy

Technology Assessed: Assessment of Nutritional Management & income generation through preparation of Badi from different pulses and vegetable and spices. .

Preparation of Badi were assessed at different locations in comparison to often in practice. Badi with pulses & vegetable + spices was found better in respect of local practice. Badi with pulses & vegetable is more nutritional property, tasty, more self life and also add additional income .

Table: Performance

Technology Option	No. of trials	Yield (kg)	Increase in yield (%)	Performance indicators		Cost of cultivation (Rs)	Gross return (Rs)	Net Profit (Rs)	B:C Ratio
				Indicator	Performance				
T ₁ - Farmer practice – Preparation of Badi from green gram	10	1.5	--	Nutritive value	Rich in protein 25.43 gm & Rich in vitamin B Complex, K, minerals	110	225.0	115.0	1:2.0
T ₂ - Preparation of badi from pulses- greengram urd and Petha + spices		1.5	-	Self life	Better keeping quality	135.0	375.0	240.0	1:2.7

FEED BACK: Remarkable acceptance of Badi due to readily availability, more nutritional property and help in income generation.



On Farm Trial –8
THEMATIC AREA: Integrated Pest Management

Problem diagnosed : Heavy incidence of early shoot borer

Technology Assessed: Assessment of insecticide to control early shoot borer in Sugarcane

Table: Effectiveness, yield and economic parameters of different treatments for the management of early shoot borer in Sugarcane

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 -Carbofuron @ 25kg/ha. At 15 days per interval	03	15.8	725.0	28.57	92270	253750	161480	1:2.75
T ₂ . Thiomethoxam 1 % + Chlorantraniliprole 0.5 % @ 12 Kg/ha.at 15 days interval 2 application		3.50	1015.0		99550	355250	255700	1:3.56

Sale price: Sugarcane 350/q



On Farm Trial –9

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.

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

Technology Option	No. of trials	Disease 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	03	13.50	34.0	19.05	44500	115600	71100	1:2.59
T ₂ - Two Spray of Azoxystrobin @ 800 ml/ha 15 days interval		4.50	42.0		46900	142800	95900	1:3.04

Sale price: Paddy 3400/q

On Farm Trial –10

THEMATIC AREA: HOUSE HOLD FOOD SECURITY

Problem definition: Nutritional Management

Technology assessed : Evaluation of bio fortified variety(WB-02) of wheat

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 Wheat variety DBW- 71	06	42.75	-	49507	89775	40268	1.81
T ₂ - Wheat variety WB 02		46.90	2.57	51490	98490	41000	1.91

On Farm Trial –11

THEMATIC AREA: INTEGRATED NUTRIENT MANAGEMENT

Problem definition: Imbalanced use of Fertilizer in Paddy (Pusa- 1509).

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 150:75:0:25)	06	40.10	15.34	58690	128320	69630	1:2.19
T ₂ -N:P:K:Zn:S:Fe@ N,P,K, Zn & S- 120:60:40:25:25 & 0 kg/ha.)		46.20		55573	148000	92427	1:2.66

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

Soil Status Nitrogen- Low, fertilizer based- 210 Kg/ha.

Phosphorus – Low, 132 Kg/ Ha

Potash- Medium, 102 Kg/ha.

Sulphur- 40 Kg/ha.

Zinc(21 %)- 25 Kg/ha.

Ferrous- 25 K



II. FRONTLINE DEMONSTRATION

List of technologies demonstrated during previous year & popularized during 2021 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	Urd	Varietal evaluation	Promotion of improved variety Indira-1(NFSM)		12	25	10.0
3	Lentil	Varietal evaluation	Promotion of improved variety PL-8(NFSM)		8	25	10.0
4	Gram	Varietal evaluation	Introduction of high yielding GNG-2171 (NFSM)		11	25	10.0
5	Mustard	INM	Use of Improved variety and Sulphur @ 40 Kg/ha.		6	10	4.0
6	Mustard	INM	Use of Improved variety and Sulphur @ 40 Kg/ha.		1	10	4.0
7	Mustard	Varietal evaluation	Introduction of high yielding variety RH-749(NFSM)		3	10	30.0
8	Mustard	Varietal evaluation	Introduction of high yielding variety RH-749(NFSM)		1	75	10.0
9	Paddy	INM	Application of ferrous Sulphate in Paddy @25kg/ha		1	25	4.0
10	Wheat	Varietal evaluation	Introduction of high yielding timely sown variety HD-2967		1	10	1.20
11	Potato	Varietals Evaluation	Popularization of improved variety Kufri Mohan		3	03	8.80
12	Potato	Varietals Evaluation	Inter cropping of Potato variety Kufri Chipsona-1 with autumn planting of Sugarcane.		8	22	0.40
13	Paddy	IPM	Management of Srem borer of paddy through chlorantriliprole 0.4 %		2	05	2.0

14	Tomato	IPM	Management of fruit borer by spinosad 45 %		3	10	1.0
15	Parwal	IPM	Management of fruit fly in Parwal		4	05	4.0
16	Sugarcane	IDM	Management of Pokkabowing disease. Application of copper oxychloride.		2	10	2.0
17	Kitchen garden	House hold food security	Demonstration of well planned Kitchen Garden (100 m ²)		2	10	0.10
18	Vermin Composting	Women empowerment	Worms @ 10 kg/demon.		6	10	0
19	Paddy	Resource Conservation	Use of Power sprayer for spraying of insecticides in Paddy crop		3	05	4.0
20	Wheat	Resource Conservation	Sowing of wheat by seed drill.		3	10	6.0
21	Sugarcane	Resource Conservation	Crop residue management through Mulcher		3	112	130.0
Total						452	251.5



b. Details of FLDs implemented during January to December 2022

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)	Zaid 2022	10.0	07	18	25
2	Urd	Varietal evaluation	Promotion of improved variety Mukundara urd-2(NFSM)	Kharif 2022	20.0	20	30	50
3	Gram	Varietal evaluation	Introduction of high yielding GNG-2171 (NFSM)	Rabi 2021-22	10.0	18	7	25
4	Lentil	Varietal evaluation	Promotion of improved variety PL-4717	Rabi 2022-23	5.0	15	10	25
Oilseeds								
5	Mustard	Varietal evaluation	Introduction of high yielding variety RH-749(NFSM)	Rabi 2021-22	10.0	5	20	25
6	Til	Varietal evaluation	Introduction of high yielding variety G.J.T.-5	Kharif 2022	10.0	2	08	10
Other crop								
7	Mustard	INM	Use of Improved variety and Sulphur @ 40 Kg/ha. (Pusa Jagannath)	Rabi 2021-22	4.0	3	7	10
8	Paddy	INM	Application of ferrous Sulphate in Paddy @25kg/ha	Kharif 2022	4.0	6	4	10
9	Sugarcane	INM	Use of Ferrous Sulphate @ 40 Kg/ha.	Zaid 2022	4.0	3	7	10
10	Potato	ICM	Inter cropping of Potato variety Kufri Chipsona-1 with autumn planting of Sugarcane.	Rabi 2021-22	0.40	3	2	5
11	Sugarcane	IDM	Management of Pokkabowing disease. Application of copper oxychloride.	Kharif 2022	4.0	3	7	10
12	Paddy	IPM	Management of Srem borer of paddy through chlorantriliprole 0.4 %	Kharif 2022	4.0	2	8	10
13	Parwal	IPM	Management of fruit fly in Parwal	Kharif 2022	4.0	2	8	10
14	Potato	IDM	Management of late blight of Potato by Infinito (fluopicolide 55.6% hydrochloride 55.6 %)	Rabi 21-22	4.0	2	8	10
15	Tomato	IPM	Management of fruit borer by spinosad 45 %	Rabi 2021-22	2.0	1	4	5
16	Marigold	IDM	Management of blight in marigold by mancozeb 64.5 % + Cymoxanil 1 %	Rabi 2022	4.0	-	10	10
17	Marigold	IPM	Management of Red spidermite by propergite 57 EC	Rabi 2022	4.0	-	10	10
18	Wheat	RCT	Sowing of wheat by seed drill.HD-2967	Rabi 2021-22	6.0	5	10	15

19	Wheat	INM	Use of Ferrous Sulphate	Rabi 2022-23	4.0	3	7	10
20	Kitchen garden	House hold food security	Demonstration of well planned Kitchen Garden (100 m ²)	Rabi 2021-22	0.10	3	7	10
Total					113.5	103	192	295

Technical Feedback on the demonstrated technologies

SN	Crop/ Animal	Feed Back
1	Urd	Variety PU-31 is susceptible to mosaic disease. Production of PU-31 variety is 18.67% higher over check var.
2	Gram	Varietal trial in line sowing. To increase the productivity of Gram.
3	Mustard	An application of sulphur 40 kg/ha. Resulted 12.77 % more yield along with higher oil content in the mustard grains in the same variety RH-749
4	Potato	Early maturity & low starch value so it has a demand for chips industry.
5	Sugarcane	An increase 14.01 % increase in yield of Sugarcane was recorded after application of spraying of blitox 50@ 3kg./ha to control pokkabowing
6	Potato	The fungicide infinito has very good controlling late blight of Potato and enhance yield.
7	Tomato	Application of spraying of spinoshed 45% to control fruit borer. Resulting higher yield and safe for health.
8	Wheat	Line sowing of wheat to increases the yield of wheat by seed drill.
9	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

Farmers' reactions on specific technologies

S. No	Crop	Feed Back
1	Urd	Comparatively low infestation of YVM.
2	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.
3	Mustard	Sulpher is easily available in local market and cheaper technology to increase oil content resulting higher income.
4	Potato	Due to medium and manageable size, softness, darkness in color and market price acceptance is better.
5	Potato	The fungicide infinito has very good controlling late blight of Potato and enhance yield.

6	Tomato	Application of spraying of spinoshed 45% to control fruit borer. Resulting higher yield and safe for health.
7	Wheat	By use of seed drill enhancement of yield and control of lodging. Therefore farmers are liking the seed drill.
8	Kitchen garden	Farmers enjoyed the sufficient, chemical free, cheaper , all nutrients and quality green fresh and vegetables for almost throughout the year.

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										
Urd Zaid 2022	Varietal evaluation	Promotion of improved variety Indira-1(NFSM)	PU-31 (NFSM)	25	10.0	9.6	8.74	9.17	7.12	28.79	25300	51352	26052	2.17	39872	15172	18020	1.72
Urd kharif 2022	Varietal evaluation	Promotion of improved variety Indira-1(NFSM)	Mukundara URD (NFSM)	50	20.0	12.83	9.01	10.92	8.75	24.85	28500	72072	43572	2.53	26400	57552	31152	2.18
Gram Rabi 2021-22	Varietal evaluation	Introduction of high yielding GNG-2171 (NFSM)	GNG-2171 (NFSM)	25	10.0	19.87	16.45	18.16	13.45	35.01	26475	92616	66141	3.4	23750	68595	44845	2.88
Lentil Rabi 2022-23	Varietal evaluation	Promotion of improved variety	PL-4717	25	5.0	Result awaited												

* Sale price – Urd @ 8000/qtl Gram- @ 5100



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 Rabi (2021-22)	Varietal evaluation	Introduction of high yielding variety	RH749 (NFSM)	25	10.0	19.64	16.95	18.96	15.12	25.42	24305	95748	71443	3.93	23150	76356	53206	3.29
Til Kharif 2022	Varietal evaluation	Introduction of high yielding variety	G.J.T.-5	27	10	5.56	3.42	4.09	3.32	23.19	22500	40900	18400	1.81	20500	33200	12700	1.61

* Sale price of Mustard: @ Rs 6600/-, Til @ Rs. 10000/Q



FLD on Other crops:

Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)			Check	% increase in Yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo					Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Av.										
Mustard (2021-22)	INM	Use of Improved variety and Sulphur @ 40 Kg/ha. (Pusa Jagannath)	10	4.0	17.90	10.15	12.99	11.30	12.99	24310	118140	101000	4.15	23115	74580	58480	2.5
Paddy Kharif 2022	INM	Application of ferrous Sulphate in Paddy @25kg/ha	10	4.0	48.25	43.15	45.69	43.18	5.18	55573	146208	90635	2.63	58690	138176	49486	2.35
Sugarcane	INM	Application of ferrous Sulphate in Sugarcane @ 40kg/ha	10	4.0	Result awaited												

* Sale price –Paddy @ Rs 3200/qt, Mustard -6600/-

Crop	The metric	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)
Potato (Rabi 2021-22)	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	532665.0	390565.0	1:3.74	96500.0	263025.0	166525.0	1:2.72

Sale price @ / Qt/ha. Potato -1000,



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.										
Sugarcane/ Co-238	IDM	Management of Pokkabowing by using of CoC@3g/lit	10	4.0	1020	650	843.0	720.0	14.59	98990	295050	196060	1:2.98	92270	252000	159730	1:2.73
Paddy	IPM	Management of Srem borer of paddy through chlorantriliprole 0.4 %	10	4.0	42.00	29.50	35.50	28.00	21.12	42500	120700	78200	1:2.84	41000	95200	55200	1:2.32
Parwal	IPM	Management of fruit fly in Parwal by using pheromone traps @ 5 / acre	10	4.0	160.0	100.0	140.50	98.00	30.24	50200	281000	230800	1:5.59	48000	196000	148000	1:4.10
Potato	IDM	Management of late blight of Potato by Infinito (fluopicolide 55.6% hydrochloride 55.6 %)	10	4.0	380	335	348.50	260	25.39	241840	522750	280910	1:2.4	222500	390000	167500	1:1.75
Tomato	IPM	Management of fruit borer by spinosad 45 %	5	2.0	250	200	233.20	190	18.52	185280	559680	374400	1:3.02	180780	456000	275220	1:2.5

Sale price : Sugarcane Rs 350/ Q, Paddy Rs 3400/Q, Parwal Rs. 2000/Q Potato Rs. 1500 /Q, Tomato Rs. 2400/.,



Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)			Check	% Change in Yield	Economics of demo. Rs./ha				Economics of check (Rs./ha)			
					Demo					Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Av.										
Marigold	IDM	Mngt. of blight in marigold by mancozeb 64.5 % + Cymoxanil 1 %	10	4.0	Result awaited												
Marigold	IPM	Management of Red spidermite by propergite 57 EC	10	4.0	Result awaited												
Wheat /HD-2967	RCT	Sowing of wheat by Seed Drill/	15	6.0	51.2	48.7	49.95	46.6	7.19	23700	96153	72453	1:4.05	22700	89705	67005	1:3.95
Wheat	INM	Use of Ferrous Sulphate	10	4.0	Result awaited												

Sale price - Wheat- @ Rs, 1925.00 , Paddy - @ Rs, 2100.00



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 (2021-22)	10	410	75	446	2150	10250	8100	4.7	500	1875	1375	3.7



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										
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	16	0	16	04	0	04	20	0	20
Production and use of organic inputs	1	19	0	19	01	0	01	20	0	20
Micro nutrient deficiency in crops	1	17	0	17	03	0	03	20	0	20
Organic Farming	1	18	0	18	02	0	02	20	0	20
Total	04	70	0	70	10	0	10	80	0	80
IV Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	3	0	22	22	0	38	38	0	60	60
Minimization of nutrient loss in processing	3	0	18	18	0	42	42	0	60	60
Drudgery reduction	1	0	10	10	0	10	10	0	20	20
Self Help Group	1	0	07	07	0	13	13	0	20	20
Total	8	0	57	57	0	103	103	0	160	160
Ag. Engg										
Repair & Maintenance	2	35	-	35	5	-	5	40	-	40
Protected cultivation	1	12	-	12	08	-	08	20	-	20
Drip Irrigation	1	12	-	12	08	-	08	20	-	20
Total	4	59	-	59	21	-	21	80	-	80
Plant Protection										
Integrated Pest management	03	43	-	43	17	-	17	60	-	60
Integrated Disease management	03	48	-	48	12	-	12	60	-	60
Total	06	91	-	91	29	-	29	120	-	120
GRAND TOTAL	24	252	57	309	68	103	171	320	160	480

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										
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	3	60	0	60	0	0	0	60	0	60
Integrated Nutrient Management	2	33	0	33	07	0	07	40	0	40
Micro nutrient deficiency in crops	3	50	0	50	10	0	10	60	0	60
Organic farming	2	36	0	36	04	0	04	40	0	40
Natural farming	2	35	0	35	5	0	5	40	0	40
Total	12	214	0	214	26	0	26	240	0	240
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	0	31	31	0	9	9	0	40	40
Minimization of nutrient loss in processing	4	0	34	34	0	46	46	0	80	80
Value addition	3	0	25	25	0	35	35	0	60	60
Women and child care	1	0	0	0	0	20	20	0	20	20
Drudgery reduction	1	0	18	18	0	2	2	0	20	20
Total	11	0	108	108	0	112	112	0	220	220
Agri. Engg										
Repair & Maintenance	3	45	-	45	15	-	15	60	-	60
Protected cultivation	4	60	-	60	20	-	20	80	-	80
Drip Irrigation	5	75	-	75	25	-	25	100	-	100
Total	12	180	-	180	60	-	60	240	-	240
V Plant Protection										
Integrated Pest management	8	148	01	149	02	09	11	150	10	160
Integrated Diseases management	6	103	01	104	16	-	16	119	01	120
Total	14	251	02	253	18	09	27	269	11	280
G Total	56	764	110	874	125	121	246	889	231	1120



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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										
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	3	60	0	60	0	0	0	60	0	60
Integrated Nutrient Management	3	49	0	49	11	0	11	60	0	60
Micro nutrient deficiency in crops	4	67	0	67	13	0	13	80	0	80
Organic farming	3	54	0	54	06	0	06	60	0	60
Production and use of organic inputs	1	19	0	19	01	0	01	20	0	20
Natural farming	2	35	0	35	5	0	5	40	0	40
Total	16	284	0	284	36	0	36	320	0	320
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	5	0	53	53	0	47	47	0	100	100
Minimization of nutrient loss in processing	7	0	52	52	0	88	88	0	140	140
Value addition	3	0	25	25	0	35	35	0	60	60
Women and child care	1	0	0	0	0	20	20	0	20	20
Drudgery reduction	2	0	28	28	0	12	12	0	20	40
Self Help Group	1	0	07	07	0	13	13	0	20	20
Total	19	0	165	165	0	215	215	0	360	380
Plant Protection										
Integrated Pest management	11	191	1	192	19	09	28	210	10	220
Integrated Diseases management	9	151	1	152	28	0	28	179	01	180

Total	20	342	2	344	47	09	56	389	11	400
VI Agric. Engg.										
Repair & Maintenance	5	80	-	80	20	-	20	100	-	100
Protected cultivation	5	72	-	72	28	-	28	100	-	100
Drip Irrigation	6	87	-	87	33	-	33	120	-	120
Total	16	239	-	239	81	-	81	320	-	320
Grand Total	80	1016	167	1183	193	224	417	1209	391	1600

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
Women empowerment	2	0	9	9	-	11	11	-	20	20
Repair & maintenance	1	7	-	07	03	-	03	10	-	10
Integrated Nutrient Management	1	7	-	07	03	0	03	10	0	10
Soil testing and organic farming	2	20	-	20	0	-	0	20	-	20
Mushroom Production for Income generation	1	0	04	04	-	16	16	-	20	20
Bee Keeping	1	07	--	07	03	--	03	10	-	10
Total	8	41	13	54	09	27	36	50	40	90



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
Integrated Nutrient mnngt.	2	25	0	25	05	0	05	30	0	30
Nutrient management	2	23	0	23	7	0	7	30	0	30
Women and Child care	1	0	12	12	0	3	3	0	15	15
House hold food security	1	0	10	10	0	5	5	0	15	15
Minimization of nutrients	2	0	20	20	0	10	10	0	30	30
Integrated Pest Management	7	92	05	97	36	02	38	128	07	135
Repair & maintenance	3	30	0	30	15	0	15	45	0	45
TOTAL	18	170	47	217	63	20	83	233	67	300



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	610	1113	52	1165
Diagnostic visits	25	57	20	77
Field Day	07	270	10	280
Group discussions	03	60	15	75
Kisan Ghosthi	10	1340	60	1400
Film Show	08	200	17	217
Self –help groups	06	516	06	522
Kisan Mela (Attended)	05	3184	60	3244
Exhibition	04	718	27	745
Scientists visit to farmers field	55	320	05	325
Plant/animal health camps	0	0	0	0
Farm Science Club	0	0	0	0
Ex-trainees Sammelan	0	0	0	0
Farmers seminar/workshop	0	0	0	0
Method Demonstrations	0	0	0	0
Celebration of important days	09	870	18	888
Special day celebration	12	1560	11	1571
Exposure visits	05	170	08	178
Others(Farmer visited KVK)	165	780	40	820
Total	924	11158	349	11507



Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	03
News paper coverage	28
Popular articles	10
Radio Talks	0
TV Talks	0
Animal health amps (Number of animals treated)	0
Others(Success Story, Book Published)	25
Total	66

Important Events

Exposure Visit

Exposure visit of Farmers from Village Pali, Saidpur, at Krishi Vigyan Kendra, Hastinapur under ATMA Yojna Programme on dated 28 Feb, 2022 and visited ATIC and Mushroom Unit etc.



Celebration of International Women Day

International women day has been celebrated at the centre on 08, March 2022. On the occasion 65 farm women to aware for importance of balance food, Nutri Thali and Nutritional Gardening .

Farmer's Training Programme Under ATMA

One day training programme organized by Krishi Vigyan Kendra at village- Bijauli dated 02.03.2022 on Natural Farming, Organic Farming, Soil testing and Crop Residue Management under ATMA Yojna Programme. 60 farmers were participated



Exposure Visit

Under ATMA Programme , 60 Farmers from Village Bastaura, Pali Rahmapur, were visited village Noon khera, Jansath, Mujaffarnagar.

Rural agricultural Work Experience ¼RAWE½

Under (RAWE) Programme 11 students from IIMT Meerut stay one month at KVK Hastinapur, and each student adopted one village for data evaluation based on agriculture



Programme under SCSP

1000 demonstration of paddy variety Pusa-1509 has been organized covering block Kharkhauda, Rajpur, Daurala Hastinapur and Parikshitgarh under SCSP programme. The programme has been conducted in Kharif 2022 and 5 Kg seed of the variety provided to the selected each farmer with technical support.

Under this programme seed of vegetables were also provided to the 50 farm women of village Pali, Rahmapur, Samaspur, Daurala, Lawad and Lukadhadi.

Innaugration of Neer Adarsh Jaivik Kisan utpadak sangathan

A FPO named Neer Adarsh Jaivik Kisan utpadak sangathan, Kushawali was formed with the technical support of KVK and inaugurated on 06, April 2022 in the presence of 100 associated farmers. On the occasion Officers from NABARD and line department were present.





Exposure Visits

25 students of Rudra Institute of technology, Mawana and 50 students of MIET, Meerut visited the KVK on 18, April and 28 May 2022 respectively. During the visit students were benefited with programmes running at KVK and laboratories working at the center.

Celebration of Kisan Bhagidari Prathmikta Hamari

The programme has been celebrated on 26, April 2022 at the centre, during the event 340 farmers were benefited with 20 stalls of line departments and firms. A kisan gosthi is also organised to aware the farmers about technologies and schemes of the Government. Jila Panchayat Adhyaksh was the chief guest and district level officers were present on the occasion.



Awareness programme for Energy Saving

A awareness and training programme was organized on 18, May 2022 at KVK, Hastinapur to make aware the farmers to save energy in their farm and domestic work. The programme was sponsored by UPNEDA. On the occasion officials from UPNEDA and 70 farmers and farm women were benefited.

Unnat Pashudhan Sashakt Kisan

The programme was organized on 01, June 2022 at NASC complex, New Delhi, in this event 50 farmers of the district of village Pali and Bijauli were participated and benefited with discussion with entrepreneurs and exhibition of animals.



Peer Review Team Visit

The Peer Review Team visited KVK on 18 July 2022 along with Hon'ble Vice Chancellor, Director Extension and Other officer's of the university. During the visit a brief presentation of last five year progress of the centre presenting before the team. The team visited KVK office, Demo. units, ATIC and discuss with KVK scientists and suggested the points for improvement.

Programme of Independence day

A programme was organised on the occasion of Independence day, In this programme 75 farmer's were facilitated with owner, Tirang and provided fruit plants to them. During the program farmer are made aware are about the Importane of independence day and schemes for farmer welfare.



	<p>Celebration of Kisan Samman Diwas</p> <p>Kisan Samman Diwas has been celebrated at the centre on 23, December 2022. On the occasion 110 farmers & farm women were participated in this programme .</p>
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Programme Under Mahila Adyyan Kendra (January 2022 to March 2022)

Organised 4 programme under Mahila Adyyan Kendra at adopted village Samaspur. In all different programme such as Global famiy day, , National Mahila day, National Science day ,International Mahila Diwas etc 120 farm women, rural youth, Aagan wadi karyakarta and students were participated and aware and educate the women regarding Mahila Addyan Programme.



Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	
Meerut	Text only	440	15	11	22	68	53	609
	Voice only	1830	38	54	30	706	288	2946
	Voice & Text both							
Total farmers Benefitted		2270	53	65	52	774	341	3555

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies			S.cane, Wheat, Mustard. Paddy, Potato,& Vegetable
	Lectures organised			
	Exhibition			
	Film show			
	Fair			
	Farm Visit			
	Diagnostic Practicals			
	Distribution of Literature (No.)			
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)			
	Bio Product distribution (Kg)			
	Bio Fertilizers (q)			
	Distribution of fingerlings			
	Distribution of Livestock specimen (No.)			
	Total number of farmers visited the technology week			

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)	Number of Farmers
Rabi 2021-22	Wheat	HD-3226	-	120.00	240000	
Rabi 2021-22	Mustard	Pusa Vijay	-	13.44	91000	
Kharif 2022	Bajra +Jowar	Commercial	-	Auction	119980	
Rabi 2022-23	Mustard	RH-749	-	--	-	
Rabi 2022-23	Wheat	DBW-303				
Total					450980	

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity(Kg)	Value (Rs.)	No. of Farmers
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others				
Total				

Table: Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl. specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
Total				

Product	Quantity	Value (Rs.)
Milk Production	854.100 lit	38732.00
Mushroom Production	50 Kg	4400.00
Vermi Compost	470 Kg.	3760.00

Performance of Crop Cafeteria

Name of crop	Variety	Name of crop	Variety
Wheat (Timely)	1. PBW- 173	Mustard	1. Pusa - Vijay
	2. HD-3226		2. Giriraj
	3. HD-3271		3. RGN - 298
	4. WB-02		4. CS-60
			5. RH-749
	6. NRCYS - 502		
Wheat (Late)	1. PBW-226	Lentil	1. L- 47 - 17
	2. DBW - 90		
	3. DBW - 71		

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	410	410	22	61500.00
Water				
Plant				
Total	410	410	22	61500.00

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
Meerut	14 November 2022

IX. NEWSLETTER/MAGAZINE

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

X. PUBLICATIONS

Category	Number
Training Manual	07
Book Chapter	03
Research papers	05
Technical bulletins	08
Technical reports	12
Total	35

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

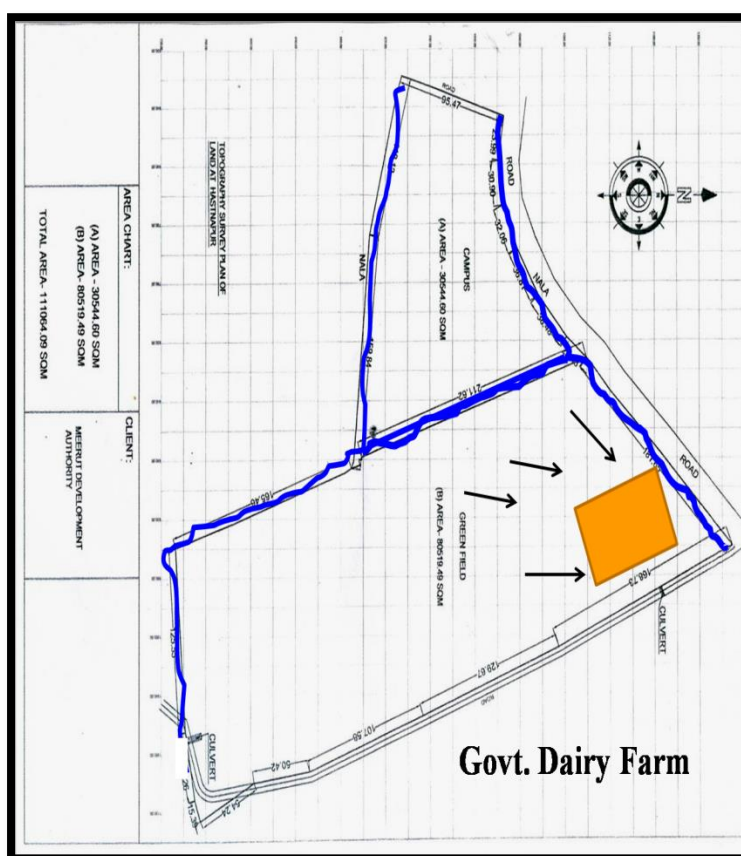
Rain Water Harvesting at KVK

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

SN	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			

XIV. CASE STUDIES (CASE STUDIES MAY BE GIVEN IN DETAIL AS PER THE FOLLOWING FORMAT)

Each Zone should propose a minimum of three case studies with good action photographs (with captions on the backside of the hard copy of the photos) on the following topics

- a) *Effective popularization on a larger scale of any one FLD technology and its role in transformation of district agriculture with respect to that particular crop or enterprise*
- b) *Performance of the end results of any one technology assessed, its refinement if any and its impact in district agriculture with respect to that crop or enterprise*
- c) *Effect of production and supply of seeds and planting material / animal breed / or bio-product and its impact on district agriculture with respect to that crop/ enterprise/ bio-product*

The general format for preparing the above case studies are furnished below

Name of the KVK

TITLE

Introduction

KVK intervention

Output

Outcome

Impact

XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE (2022)

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	Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut	Dr. Omvir Singh, Professor & Head

B. Details on Farmer's visit (Jan 2022 to Dec 2022)

S. No	Purpose of visit	Number of farmer's visited
01	Technology Information	563
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 (Jan 2022 to Dec 2022)

D.1. Details on technology information

S. No	Information category	Number of ATICs	Total number of farmers benefited	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	1	215	05	02	02	03	03	04	
03	Letters received									
04	Letters replied									
05	Training to farmers / technocrats / students	1	68		02			01	01	
06	Others pl. specify									

D.2 . Publications (Print & Electronic media)

S. No	Particulars	Number sold	Number of farmers benefited
1	Books Chapter		
2	Technical Manual		
3	Research Paper		
4	T.V Talk		
5	You Tube Videos		

E. Technology Products provided (Jan 2022 to Dec 2022)

S. No	Particulars	Quantity	Unit of quantity	Value in Rs.	Number of farmers benefited
01	Seeds	120	Quintal	240000.00	
02	Planting materials		Numbers		
03	Livestock		Numbers		
04	Poultry birds		Numbers		
05	Bio-products		Quintals		
06	Fodder		Auction	119000.0	
07	Milk production	854.10	Lit	38732.00	
08	Mushroom Production	50	Kg	4400.00	

F. Technology services provided

S. No	Particulars	Number of farmers benefited
01	Soil and water testing	410
02	Plant diagnostics	340
03	Details about the services to line Departments	52
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 (Jan 2022 to Dec 2022)

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 2022 to Dec 2022)

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

C. Visits made by DE / Officials in the Directorate to KVKs during (Jan 2022 to Dec. 2022)

S. No.	Particulars	Number of visits
01	SAC meetings	01
02	Field days	05
03	Workshops / seminars	02
04	Technology week	
05	Training programmes	02
06	PRT Visit	01
07	ATARI Officers Visit	01

D. Overseeing of KVKs activities during (Jan 2022 to Dec 2022)

S. No.	Particulars	Number of fields visited	Major observations / remarks	Major suggestions given

E. Publication on Technology inventory during (Jan 2022 to Dec 2022)

S. No.	Particulars	Number
01	Directorates published the technological inventory	05
02	Directorates constantly updating the technological inventory	06

F. Technological Products provided to KVKs during (Jan 2022 to Dec 2022)

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	

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									
2	Vermi compost Producer									
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/ Shredder / 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
1.	Kisan Melas organized 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		

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/De mos	No. of Farmers	No. of Trainings/De mos	No. of Women Farmers	No. of Trainings/De mos	No. of Youths	No. of Trainings/De mos	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						
1000	1000	12	220	04	38	04	28	05	15							

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

9.1 Table-9.1: Details of activities performed under NARI programme

Nutritional Garden		Bio-fortified crops		Value addition		Training programmes		Extension activities	
No of Established	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries
10	10	5	73	5	90	15	300	4	60

Table-9.2: Details of Bio-Fortified Crops used for nutritional security under NARI programme

Category	Bio Fortified Crop	Variety	Area (ha)	No of Beneficiaries
Cereal	Maize			
	Rice			
	Wheat	WB-02	1.2	03
Millet	Finger millet			
	Pearlmillet			
	Sorghum			
Oilseed	Groundnut			
	Mustard			
Pulses	Lentil			
	Lathyras			
Vegetable	Cauliflower	Pusa Beta Kesari	100 sqm/ 10 farmer	10
	Raddish	Pusa Jamuni	100 sqm	10
	Potato	Kufri Neelkanth	100 sqm	10
Tuber	Sweet Potato			

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

Sample	No. of Samples in	No. of Farmers in	No. of Villages in	Amount realized	No. of Soil Health Cards issued
Soil	410	410	22	61500.00	410
Water					
Plant					
Manure					
Total				61500.00	

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 participated
1	Toilet maintenance	02	06
2	Road, drain cleaning		
3	Garbage disposal	05	60
4	Door to door awareness	02	12
5	Awareness campaign	12	280
6	Nookkad Drama		
7	School Drama		
8	School rally		
9	Writing painting slogans		
10	Composting	01	15
11	Other	08	125

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. Achivements under Natural Farming

Name of KVK	Number of awareness / training programmes organized	No. of Participants	Number of demonstrations organized at farms of KVKs	Number of farmers visited demonstration plots
Meerut	06	490	01 at KVK + 07 at farmers field	340

XVII Awards

S.No.	Name of Award received	Name of KVK/farmer	Year of Award	Date on which award received
1	Outstanding Contribution in the field of Agriculture Extension	Meerut		
2	Best Extension Scientist (Entomology)	Meerut		
3	Best Article Award	New Delhi, Fertilizer Association of India		

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

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