APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	92	1484	356	1840
Rural youths	17	97	91	188
Extension functionaries	14	300	85	385
Sponsored Training(FTT)	03	150	00	150
Vocational Training				
Total	**126**	**2031**	**532**	**2563**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	158	68.0	158
Pulses	142	67.0	142
Cereals	35	14.0	35
Vegetables	10	2.0	10
Other crops	-	-	-
Hybrid crops	-	-	-
Total	345	151.0	345
Livestock & Fisheries	50	50	100
Other enterprises	35	0.2	35
Total	85	50.2	135(100 animals)
Grand Total	**430**	**251.40**	**515**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
Technology Assessed			
Crops	02	11	11
Livestock	03	20	20
Various enterprises	05	19	19
Total	**10**	**50**	**50**
Technology Refined			
Crops	-	-	-
Livestock	-	-	-
Various enterprises	-	-	-
Total	-	-	-
Grand Total	**10**	**50**	**50**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	703	11750
Other extension activities	225	Mass
Total	**928**	**11750**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
KVK, Shahjahanpur	Text only	145	74	5696	-	-	-	5915
	Voice only				-	-	-	
	Voice & Text both	145	74	5696	-	-	-	5915
	Total Messages	**145**	**74**	**5696**	-	-	-	**5915**
	Total farmers Benefitted	**145**	**258**	**5696**	-	-	-	**5915**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	271.12	600000 (Approx.)
Planting material (No.)	35860	9480.0
Bio-Products (kg)	7700	-
Livestock Production (No.)	10	1000.0
Fishery production (No.)	-	-

7. Soil, water & plant Analysis

Samples		No. of farmers	Value Rs.
Soil	210	**135**	-
Water		-	-
Plant		-	-
Total	**210**	**135**	-

8. HRD and Publications

Sr. No.	Category	Number	No. of participants
1	Workshops	**08**	08
2	Conferences	**03**	03
3	Meetings	26	32
4	Trainings for KVK officials	08	10
5	Visits of KVK officials	210	288
6	Book published	-	-
7	Training Manual	**01**	-
8	Book chapters	**02**	-
9	Research papers	01	-
10	Lead papers	-	-
11	Seminar papers	02	-
12	Extension folder	16	-
13	Proceedings	**04**	-
14	Award & recognition	**08**	-
15	On going research projects	**04**	-

DETAIL REPORT OF APR-(Jan 2022 to June 2023)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone (O)	FAX(PP)	E mail
KVK Niyamatpur, Shahjahanpur	-	-	shahjahanpurkvk@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Vice Chancellor, S.V.P.U.A. & T., Meerut	0121-2411503	2411505	vc2016svpuat@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. N.C. Tripathi	-	9450417136	nalinchandratripathi@gmail.com

1.4. Year of sanction: F.No 5(I)/93-KVK (F-II) Date 31.March 1993

1.5. Staff Position (as on 31st May, 2023)

S. N.	Sanctioned post	Name of the incumbent	Designation	Subject	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Cate -gory	Mobile No	Age	Email ID
1	Programme Coordinator	-	-	-	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Dr. N.C. Tripathi	Professor & O.I.C.	Agronomy	37400-67000 (GP 10000)	182700	01.06.98	Permanent	Gen	9450417136	57	nalinchandratripathi@gmail.com
3	Subject Matter Specialist	Dr Narendra Prasad	Professor	Agril. Extn.	37400-67000 (GP 10000)	182700	10.07.96	Permanent	OBC	9450416956	56	narendraprasadkvk@gmail.com
4	Subject Matter Specialist	Km. Vidya Gupta	Asstt. Prof./. SMS	Home Science	15600-39100 (GP 7000)	101200	16.12.03	Permanent	OBC	9415366111	55	vidyaguptakvk@gmail.com
5	Subject Matter Specialist	Dr. Shiv Kr. Yadav	SMS	Livestock Production	15600-39100 (GP 5400)	56100	28.06.08	Permanent	OBC	9473588885	40	dr.shivkumarjnp@gmail.com
6	Subject Matter Specialist	Dr Mahesh Kr	SMS	Horticulture	15600-39100 (GP 5400)	56100	28.06.08	Permanent	SC	6394318919	38	mkrao477@gmail.com
7	Programme Assistant	Dr. Chandrapal	Programme Assistant (A.V.Aids)	Agril.Extn	9300-34800 (GP 5400)	87700	20.12.95	Permanent	Gen	9415482746	52	cpdeepali@gmail.com
8	Computer Programmer	Dr Manoj Kr. Mishra	Computer Programmer	Computer Science	9300-34800 (GP 4800)	78800	28.10.99	Permanent	Gen	9412423526	49	dr_mishra@in.com
9	Programme Assistant	Dr Vimal Kr. Singh	Programme Assistant (Soil/F.M.)	Entomology	9300-34800 (GP 4600)	55200	15.09.08	Permanent	OBC	9452215713	46	-
10	Stenographer	Sandeep Saxena	Jr. Steno	-	5200-20200 (GP 4200)	64100	02.09.95	Permanent	Gen	9450443210	51	-
11	Driver	Sonu Gupta	Driver/Mechanic	-	5200-20200 (GP 1900)	33300	27.07.07	Permanent	OBC	9411986427	44	-
12	Supporting Staff	Shubham Kumar Sagar	Office Attendant	-	5200-20200 (GP 1800)	20900	21.03.17	Permanent	SC	8874594581	25	-

1.6. Total land with KVK (in ha) : 18.314 :

S. No.	Item	Area (ha)
1	Under Buildings	0.600
2.	Under Demonstration Units	0.016
3.	Under Crops	4.000
4.	Newly develop farm under land reclamation	10.00
5.	Others (Specify)	3.698

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	March 2000	0.600	2647000	-	-	Completed
2.	Farmer's Hostel	ICAR	Sept., 2006	0.300	2289916	-	-	Completed
3.	Staff Quarters (6)	ICAR	-	0.040	2671000	''	-	Completed
4.	Demonstration Units (2)	ICAR	-	0.016	1104974	''	-	Completed
5	Fencing	ICAR	-	2000R/M	3843000	''	-	Completed
6	Rain Water harvesting system	ICAR	-	0.400	50000	''	-	Completed
7	Threshing floor	ICAR	-	0.030	230000	''	-	Completed
8	Farm godown	ICAR	-	0.006	362539	''	-	Completed

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero jeep UP27G-0138	June, 2009	5.07 Lac	206000	Condemn
Hero Honda Super Splender UP27G-0146	April , 2010	46159.00	41333	Old in Working order

C) Equipments& AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Daree – 05	2002	2010.00	Working order
Kirloskar Diesel Engine Model Ks-10 with Acess.	2003	21210.00	------do-----
Spade – 02	2003	140.00	------do-----
Zero tillage Cum Bed Planter - 2	2003	11900.00	------do-----
Office Chair- 10 No.	2003	3564.00	------do-----
Dice	2003	1800.00	------do-----
Steel Book Shelf -2	2003	6261.84	Working order
Harrow	2004	16800.00	------do-----
Lavellor	2004	4250.00	------do-----
Daree – 04	2004	2010.00	------do-----
Heat Convector - 2	2004	850.00	------do-----
Home Science Material (Bartan)	2004	4589.75	------do-----
Home Science Material (Oth. Material)	2004	8996.00	------do-----
Gas Cylinder - Two	2004	2074.72	------do-----
Television	2004	10490.00	------do-----
D.V.D Player	2004	11990.00	------do-----
Office Table With One Side drawer 9	2004	12222.00	------do-----
Office Table With Two Side drawer	2004	8028.00	------do-----
Computer Table	2004	3450.00	------do-----
Office Chair Can Seat & Back -80	2004	28640.00	------do-----
Computer Chair	2004	1575.00	------do-----
Ex. Rev. Chair	2004	2859.00	------do-----
Rack - 2 (Covered Side Rack)	2004	1500.00	------do-----
Steel Rack - 1	2004	1617.00	------do-----
Scanner	2004	3700.00	Not Working
Library book - 40 No.	2004		Working order
Library book - 6 No.	2004	1064.00	------do-----
Steel Book Shelf -2	2004	6579.28	------do-----
Chair donlup cushion	2004	12360.00	------do-----
Invertor Battery	2004	11200.00	------do-----
Generator - 5 KVA	2004	3700.00	------do-----
Photo copier G1508	2004	61240.00	Not working
Stabilizer 5 KVA	2004	5000.00	Working order
Slide Projector	2004		------do-----
Over hade Projector	2004		------do-----
Soil Science Unit Grinder, Sale Willy Mill Chamlur	2005	23252.40	------do-----
Conductivity Meter - 1	2005	8750.00	------do-----
Mechanical Shaper - 1	2005	5270.00	------do-----
Cooler	2005	5670.00	------do-----
Office Table With Two Side drawer	2005	1950.00	------do-----
Ex. Rev. Chair	2005	2800.00	------do-----
Steel Rack - 1	2005	1464.48	------do-----
Steel Rack - 2	2005	2713.92	------do-----
Book Case - 1	2005	2933.00	------do-----
Book Shelf	2005	5586.00	------do-----
Ex. Table	2005	4215.00	------do-----
Printer	2005	2900.00	Not working
Library book - 13 No.	2005	1483.00	Working order
Library book - 6 No.	2005	1782.00	------do-----
Library book - 3 No.	2005	1098.00	------do-----
Library book - 2 No.	2005	168.00	------do-----
Chemical Balance	2005	87000.00	------do-----

Oven	2005	14500.00	------do-----
Refrigerator With Stabilizer	2005	12000.00	------do-----
Microscope	2005	4600.00	------do-----
Kejeldal Digestion Unit For Six Slash - 2	2005	13400.00	------do-----
Kejeldal Distillation Unit for 6 Slash - 2	2005	30000.00	------do-----
Spectrophotometer	2005	106500.00	------do-----
Flame Photometer	2005	33430.00	------do-----
PH Meter	2005	10350.00	Working order
Hot Plate	2005	8200.00	------do-----
Water Distillation Unit	2005	85000.00	------do-----
Soil Science Unit (Others Materials)	2005	15179.00	------do-----
Physical Balance	2005	11990.00	------do-----
Phawara - 6	2005	780.00	------do-----
Khurpi – 12	2005	300.00	------do-----
Laboratory Tray- 4	2005	2200.00	------do-----
Sieves Brass - 5	2005	2480.00	------do-----
Tube well Boring - 1	2005	9850.00	------do-----
Diesel Suction Pump	2005	3278.70	------do-----
Reading Cum Conference Table	2006	9850.00	------do-----
Stabilizer 6 KVA	2006	5500.00	------do-----
Grinder/milling machine with motor	31.03.11	18850.00	------do-----
Humidityfier	31.03.11	17800.00	------do-----
Electronic polybag sealing machine	31.03.11	4300.00	------do-----
Physical Scale	31.03.11	3500.00	------do-----
Electronic scale	31.03.11	46200.00	------do-----
Steplizer	31.03.11	2622.00	------do-----
BOD incubator	31.03.11	46075.00	------do-----
Steplizer	31.03.11	4218.00	------do-----
laminar flow bench with access table with manome	31.03.11	44460.00	------do-----
Steplizer	31.03.11	19665.00	------do-----
Corcyra cages	31.03.11	42750.00	------do-----
microscope binocular	31.03.11	32219.00	------do-----
Manual weighing machine	31.03.11	712.00	------do-----
Hygrometer	31.03.11	1425.00	------do-----
Medium duty stirrer	31.03.11	10412.00	------do-----
Hot air oven	31.03.11	10500.00	------do-----
Hot plate with regulator	31.03.11	1850.00	------do-----
Vaccum cleaner	31.03.11	9000.00	------do-----
Double Distillation apparatus	31.03.11	48780.00	------do-----
Deep freezer	31.03.11	29500.00	Working order
Autoclave	31.03.11	44000.00	------do-----
Mixer cum grinder	31.03.11	10500.00	------do-----
Fridge	29.02.12	16770.00	------do-----
Hot air oven, Digital control	31.03.12	34000.00	------do-----
Air circulating fan	31.03.12	2400.00	------do-----
testube stand aluminium	31.03.12	3700.00	------do-----
Aorkborer ,machine	31.03.12	3560.00	------do-----
Haemo cytometer	31.03.12	6208.00	------do-----
Inoculation/UV chamber	31.03.12	19475.00	------do-----
B.O.D. Incubator With Accessories	31.03.12	104857.00	------do-----
Office Table	31.03.12	8320.00	------do-----
Office Chair	31.03.12	6448.00	------do-----
Computer Table	31.03.12	5200.00	------do-----
Computer Chair	31.03.12	2808.00	------do-----
Visitor chair	31.03.12	3640.00	------do-----
Stool	31.03.12	1976.00	------do-----
Almira	31.03.12	15600.00	------do-----

Book Case	31.03.12	11440.00	------do-----
Rack	31.03.12	7700.00	------do-----
Lab Table Steel Fram 8x2x	31.03.12	24960.00	------do-----
Capboard Steel Fram	31.03.12	7488.00	Working order
Inverter	31.03.12	6900.00	------do-----
Battery	31.03.12	20764.00	------do-----
Cooker	22.03.13	1400.00	------do-----
Rice chalni	22.03.13	650.00	------do-----
Jug	22.03.13	450.00	Working order
Bhagona With Dhakan	22.03.13	1900.00	Working order
Piller	22.03.13	180.00	------do-----
Spoon	22.03.13	150.00	------do-----
Souce Pain	22.03.13	535.00	------do-----
Air condition	20.05.11		------do-----
computer Desktop with assessory& Monitor	19.03.10	29000.00	------do-----
Fax machine	19.03.10	6500.00	------do-----
Raised bed multi crop planter	20.11.10	57500.00	------do-----
Paddy harrow	20.03.2017	19000.00	------do-----
Rotavator	16.03.2017	97832.00	------do-----
16 disc harrow	16.03.2017	33220.00	------do-----
Winnowing fan	16.03.2017	2516.00	------do-----
Tractor	01.03.2017	520863.00	------do-----
Mridaparishak unit	24.03.2017	86000.00	------do-----
Submersible Tube well	29.03.2017	125000.00	------do-----
Steel Stool (Small-02)	08.02.2018	1208.00	------do-----
Filling Cabinet	08.02.2018	9252.00	------do-----
Steel Almirah	08.02.2018	9504.00	------do-----

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

Sl. N.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	10.11.2022	1. Dr. P.K. Singh, Director Extension S.V.P.U.A.T. Meerut 2. Dr. .K.G. Yadav, Assoc. Director S.V.P.U.A.T. Meerut 3. Er. Jayveer Singh, Assoc. Director S.V.P.U.A.T. Meerut 4. Dr. S.K. Lodhi, Assoc. Director S.V.P.U.A.T. Meerut 5. Anand Kumar Tripathi, D.D. Agriculture, District Shahjahanpur 6. Raghavendra Singh, D.H.O. Shahjahanpur 7. A.C. Shrivastav, A.D. Fisheries Deptt., SPN 8. Pradeep Shukla, F.I. Fisheries Deptt. Shahjahanpur 9. Dr. Anoop Singh, S.S.O. UPSRC Shahjahanpur 10. P.K. Kapil , A.D. Ganna Sansthan 11. Sarvesh Kumar Singh, SCDI. Cane Department 12. Somvati, Pragatisheel Mahila Krishak Village- Ladhauli	Crop diversification needs to be promoted.	Action are being motivated to raise diversified crops,cereals,oilseeds,pulses, vegetables,spices,medicinal crops, and millets through training ,gosthi and demonstration.
			Agri-enterpreneurship should be promoted among farmers.	Bee keeping , Mushroom cultivation value addition , dairy and poultary are being promoted through training ,gosthi and demonstration.
			Farmers should be motivated to join FPOs of district.	Three whatsapp group of farmers have been made and FPOs and sharing activities informations for better crop price in market.
			Jaivik kheti needs to be promoted among farmers.	Jaivik kheti with bio-fertilisers and bio-pesticides is being promoted through training ,gosthi and demonstration.

		13. leeravati, Pragatisheel Mahila Krishak , Village- Ladhauli 14. Sudhir Mohan, Pragatisheel Kisan Villgae- Nougawan 15. Gyanesh Tiwari, Krishak. Village- Navipur 16. Mohit Rajvanshi, BSVS, SPN B.S.V.Shahjahanpur 19. Awanish Pal, SO Hngr-HPCL. Shahjahanpur 20. Anshul Mishra, Pragatisheel Krishak Village – Chillaoua 21. Dr. N.C. Tripathi, Prof. /OIC KVK Shahjahanpur 22. Dr. Narendra Prasad, Prof. KVK Shahjahanpur 23. Km. Vidya Gupta, S.M.S. H.Sc. KVK Shahjahanpur 24. Dr. Shiv Kumar Yadav, S.M.S. Livestock Production. KVK Shahjahanpur 25. Dr. Mahesh Kumar, S.M.S. Horticulture KVK Shahjahanpur 26. Dr. C.P. Gupta, T.A. KVK Shahjahanpur 27. Dr M. K Mishra, Programmer, KVK, Shahjahanpur 28. Dr. Vimal Kumar Singh, Farm Manager KVK Shahjahanpur 28. Sandeep Saxena, Steno KVK Shahjahanpur	Farmers trainings should on different aspects of crop production should be planned well advance of time of implementation.	The training schedule has been prepared as per recommendation prior to season of crops.
			Farmers nominated by DHO should be included in poly house vegetables seedling raising trainings.	The polyhouse nursery trainings are being orgainsed as per recommendation.
			Outcome of CFLD, FLDs should be include weather relation and climate change effect on crops.	Weather data is maintained and outcome attributes are prepared like wise to have an eye on climate change effect on agriculture
			Intercroping in sugarcane should be promoted among farmers.	Intercropping of vegetables,specially onion is being promoted with sugarcane through through training and FLD.
			Rain water harvesting water management in vegetables raising should be promoted.	Training program on drip irrigation and sprinkler irrigation have been organized and being promoted with alliance to DHO.
			Fisheries training should be organized.	Training on fisheries have been included and being done for needy farmers.

2. DETAILS OF DISTRICT (31st March, 2023)

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

S. No	Farming system/enterprise
1	Crop production system
2	Crop production and livestock production system
3	Fruits / Vegetable /Floriculture /farming
4	Fisheries, Poultry, Mushroom production and Goatary

2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

S. No	Agro-climatic Zone	Characteristics
1	Mid Western plain zone	Alluvial, Calcareous , Clay , Saline Alkaline Annual rainfall 807 mm

S. No	Agro-ecological situation	Characteristics
1	AES-1 (PowayanTehsil) Block 1. Sindhauli 2. Powayan 3. Banda 4. Khutar	1. Productive plain land under canal and tube well irrigation 2. Main cropping system rice wheat sugar cane & potato. 3. Soil type – Loam ,Clay loam , Sandy loam,
2	AES-2 (Sadar and TilharTehsil) Block- 1. Bhawalkhera 2. Dadraul 3. Negohi 4. Khudaganj 5. Tilhar	1. Plain and water logged under canal and tube well irrigation 2. Major crops grown i.e. Rice, Wheat, S.Cane.Toria, Potato, Lentil, Urd&Til 3. Soil type loam,clay loam.
3	AES-3 (Jalalabad Tehsil) Block- 1. Jalalabad 2 Kant 3. Madnapur 4. Kalan 5. Mirjapur 6. Jaitipur	1. Rainfed and tube well irrigated cultivable land 2. Major crop – Jowar , Bajra , Til , Ground Nut, maize, Mustard , Lentile ,Urd , Wheat ,S.Cane , Paddy. 3. Soil type – Sandy /sandy loam

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Sandy soil	About 50% sand in this soil mostly rain fed farming	157677
2	Loam /Clay loam	Irrigated land & all crop grown	208899
3	Loam	In this soil paddy wheat and other oil seed and pulses crops are grown	60818

2.4. Area, Production and Productivity of major crops cultivated in the district (2020-21)

S. No.	Crop	Area (ha)	Production (qt.)	Productivity (qt. /ha)
1	Rice	190621	667870	38.20
2	Maize	1236	120	25.91
3	Jowar	1108	1115	10.07
4	Bajra	3383	5264	15.56
5	Pulses (Kharif)	4306	2830	5.35
6	Urd	13266	8981	6.75
7	Moong	39	15	3.97
8	Ground nut	4711	71120	15.1
9	Sesmum (Til)	3867	5712	14.77

10	Soybean	18	100	5.61
11	Wheat	247913	989801	44.56
12	Barley	258	734	28.46
13	Gram	189	198	10.48
14	Pea	182	1914	23.57
15	Lentil	19543	19504	9.98
16	Linseed	0	0	0
17	Mustard/Toria	14441	17734	12.28
18	Sugarcane	72466	42879000	788.28

2.5. Weather data

S. No	Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)
			Maximum	Minimum	
1	January -2022	28.00	18.00	9.00	82
2	February	12.00	23.80	9.90	68
3	March	59.00	28.40	15.50	68
4	April	36.80	35.00	19.90	54
5	May	30.00	36.60	22.60	59
6	June	30.00	35.50	25.30	69
7	July	431.00	33.30	25.80	81
8	August	92.90	33.20	26.10	79
9	September	26.40	34.70	25.30	75
10	October	0.00	35.90	17.10	69
11	November	11.40	28.01	10.90	70
12	December-2022	0.00	22.30	7.70	74
13	January -2023	22.50	22.70	3.40	83
14	February	26.00	27.20	5.80	70
15	March	19.50	36.10	10.10	66
16	April	13.00	38.80	18.30	62
17	May	32.00	41.70	17.40	64
18	June-2023	2.00	37.40	24.10	78

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

Category	Population	Production	Productivity
Cattle			
Crossbreed/Indigenous	15663	-	-
Buffalo	228183	-	-
Sheep+Goats	277953	-	-
Pigs	24384	-	-
Rabbits	287	-	-
Poultry			
Hens	114247	-	-
Desi	28436	-	-
Horse	2807	-	-
Dog	75759	-	-

Category	Area (ha.)	Production (Mt.)	Productivity (kg/ha)
Fish	1910.285	5865.56	370.0
Marine	-	-	-
Inland	-	-	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

2.7 Details of Operational area / Villages

Sl No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1-	Sadar	Bhawalkhera, Madnapur,kant ,Dadraul	Tiulak, Pena Bujurg, Mahumahesh, Daulatpur, Badavan, Daudpur,Niyamtpur, Tikri,Madnapur, Chndokha, Khaikhera, Mathana, Satwankhurd, Roshannagar, Guwari , Rampur Barkatpur ,Basak , Kakrakalan Daulatpur,Niwari.Khutaria.Kapsera.Shahbajnagar.,Gumta, Kuriyan Kalan and Akra-Rasulpur,	Rice , Wheat , Sugarcane ,Ground nut, Potato, Urd ,Lentil , Toria , Mustard / Mushroom production ,Vermi-compost , Seed production , Animal husbandry, Vegetable production ,Soil and water conservation, preservation of fruits and vegetable	1. Non use of HYV seeds 2. Non use of balance fertilizers 3. Non use of PP measures 4.Non use of sulphur and boron in oilseed crop	1.Need to enhance productivity by HYV of crops 2.Need to promote INM and IPM 3. Need to adopt organic farming 4. Need to promote agro based activities like Mushroom cultivation and value addition
	Powayan, Jalalabad, Tilhar	Sindhauli ,Powayan , Jalalabad , Tilhar, Nigohi, Jaitipur, Banda, Khutar, Khudaganj, Mirzapur and Kalan	Jewa, MudiaKumiat, Bangwan,Barapur , Moorchha , Karnapur , ChakKanhau , Painakhurd , Siklapur ,Mudiyapawar , Nagariya , Nahil , Puraina ,DakiaHameednagar, Razau ,Chadari ,Benipur,,Dahar, Mirzapur, MuriaKurmiyat, Mahuwa Pathak, Rautapur, Rajanpur, Dahar, Jallapur and Majhil	Rice , Wheat , Sugarcane ,Ground nut, Potato, Urd ,Lentil , Toria , Mustard / Mushroom production ,Vermi-compost , Seed production , Animal husbandry, Vegetable production ,Soil and water conservation, preservation of fruits and vegetable	1. Non use of HYV seeds 2. Non use of balance fertilizers 3. Non use of PP measures 4.Non use of sulphur and boron in oilseed crop	1.Need to enhance productivity by HYV of crops 2.Need to promote INM and IPM 3. Need to adopt organic farming 4. Need to promote agro based activities like Mushroom cultivation and value addition

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Rice	IPM, IDM, IWM and Integrated Nutrient Management
Wheat	Integrated Weed Management and Nutrient Management
Sugarcane	Intercropping, IPM, IWM and INM
Pulses	IPM, IWM & INM
Oilseeds	Use of sulphur and IWM
Vegetable	INM & IPM, Protective vegetable cultivation

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during Jan 2022 to June 2023

OFT (Technology Assessment)				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
10	10	50	50	250.0	250.8	415	417

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	95	92	1900	1840	900	928	11000	11750
Rural youth	18	17	180	170				
Extn. Functionaries	18	14	540	405				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
300	271.12	NSC	30000	35860	92

I.A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Nutrient Management				
Varietal Evaluation	Cucumber	Production and Management Technology	02	08
	Paddy		01	06
	Wheat		01	05
Integrated Pest Management	Sugarcane	Top Borer Management	01	03
Integrated Crop Management				
Integrated Disease Management	Paddy	Sheath Blight Management	01	03
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				

Seed / Plant production				
Post Harvest Technology / Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)				
Total			**06**	**25**

Summary of technologies assessed under livestock by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Disease(disorder) Management	Buffalo	Assessment of Clinical and none-clinical remedies in controlling repeat breeding	15	15
Evaluation of Breeds	-	-	-	-
Feed and Fodder management	-	-	-	-
Nutrition Management	Buffalo	On-farm validation trial to assess to impact of mineral supplement under taken at farm gate level with a special focus on problematic dairy animal. Response to the mineral supplementation will be ascertained by measuring relevant parameters related to production and reproduction. Farmers perception will be recorded about socio-economic feasibility of the mineral supplement	40	40
Nutrition Management	Mineral Mixture feeding	50 gm mineral mix/ Animal/day + 25 g Tata salt	10	05
Production and Management	-	-	-	-
Others (Pl. specify)	-	-	-	-
Total			**65**	**60**

Summary of technologies assessed under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers

Note: Suppose **IPM in paddy** is the technology assessed by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with 50*5 = 250 trials and No. of KVKs will be 50. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

I.B. TECHNOLOGY ASSESSMENT IN DETAIL

Varietal Evaluation

1. **Problem definition:** Low yield of wheat due to unavailability of HYV
   Technology Assessed: Evaluation of HYV wheat.
   Critical Input: Seed of variety DBW-187.

KVK, Shahjahanpur, Uttar Pradesh conducted on-farm trial to assess the new HYV DBW-187 of wheat, to compare with farmers practices HD-3967.

Table: OFT to assess the new HYV of wheat DBW-187.

Technology Option	No. of trials	Yield (q/ha)	% increase in Yield	Cost of cultivation (Rs. /ha)	Gross Return (Rs./ha)	Net Returns (Rs./ha))	B:C Ratio
T1-Farmers Practice HD-2967	06	55.35	-	40700	110700	70000	2.71
T2- DBW-187		60.90	10.02	40700	121800	81100	2.99

Interference & Feed back	DBW-187 performed better. This is due to bold seed size and more effective ear head.
Farmers Reaction	Positive, Farmers liked the HYV DBW-187 as its yield is higher than farmers practices.

2. **Problem definition:** Low productivity of marigold due to use of local variety

Technology Assessed: Use of hybrid variety of marigold.

KVK, Shahjahanpur, Uttar Pradesh conducted on-farm trial to assess the use of hybrid variety Arka Honey to compare with local variety Hawai Orange.

Table: Production of local and high yielding varieties of marigold

Technology Option	No. of trials	Yield (t/ha)	Net Returns (Rs in lakh/ha)
T1- Hawai Orange(Local)	03	9.64	1.12
T2- Arka Honey		14.88	2.31

3. **Problem definition:** Low productivity in cucumber due to use of local variety

Technology Assessed: Use of high yielding variety of cucumber.

KVK, Shahjahanpur, Uttar Pradesh conducted on-farm trial to assess the use of high yielding variety Pusa Barkha to compare with local variety Supermo

Table: Production of local and high yielding varieties of cucumber (Zaid 2023)

Technology Option	No. of trials	Yield (t/ha)	Net Returns (Rs in lakh/ha)
T1- Supermo (Local Variety)	05	Result Awaited	
T2- Kashi Nutan			

4. Problem definition: Low productivity of Basmati Rice due to use of local variety
Technology Assessed: Use of high yielding variety of Basmati Rice

KVK, Shahjahanpur, Uttar Pradesh conducted on-farm trial to assess the use of hybrid varietyPB -1637 to compare with local varietyPB-1

Table: Production of local and high yielding varieties of Basmati Rice

Technology Option	No. of trials	Yield (t/ha)	Net Returns (Rs in lakh/ha)
T1- PB- 1	05	4.36	0.45
T2- PB-1637		5.23	0.60

LIVESTOCK ENTERPRISES

5. ON REPEAT BREEDING

Problem definition: Higher incidence of repeat breeding in buffaloes resulting lower productivity and profitability of dairying.

Technology assessed or refined (as the case may be): Assessment of clinical and non-clinical remedies in controlling repeat breedinginbuffaloes in Distric: Shahjahanpur

KVK, conducted trial to find out suitable control measure for repeat breeding in buffaloes as the recommended practice could not stop recurrence of repeat breeding to the desired level. The technology recommended was fine tuned by including Receptol injection for the control of repeat breeding.

Table Effect of Receptol injection in the control of repeat breeding.

Technology Option	No.of trials	Per cent incidence of repeat breeding
Use choker (Farmers practice)	05	100
Mineral mixture @50g/day/animal up to 45 day + Receptol 5 ml (72-96 hrs before AI or Natural breeding) recommended practice		04 Conception take place

6. Problem definition: Higher incidence of repeat breeding in buffaloes resulting lower conception rate leading to heavy loss of profitability of dairying.

Technology assessed or refined (as the case may be): Assessment of clinical and non-clinical remedies in controlling repeat breeding in buffaloes in District: Shahjahanpur

KVK, conducted trial to find out suitable control measure for repeat breeding in buffaloes as the recommended practice could not stop recurrence of repeat breeding to the desired level. The technology recommended was fine tuned by including mineral mixture and tata salt for the control of repeat breeding.

Table Effect of mineral mixture and tata salt in the control of repeat breeding.

Technology Option	No.of trials	Per cent incidence of repeat breeding
Deworming with-out mineral mixture (Farmers practice)	10	60
Mineral mixture @50g/day/animal up to20 days + Tata salt 25 mg		20

NUTRIENT MANAGEMENT

7. Problem definition: Higher age at first calving in buffaloes due to mineral deficiency.

Technology assessed or refined (as the case may be): Use of mineral mixture provided by Department of animal nutrition, I.V.R.I. Bareilly (PI- Dr.Narayan Dutta) supplementation in buffalo heifers.

KVK, Shahjahanpur conducted on-farm trial to find out the effect of mineral mixture supplementation on buffalo heifers not responding/responding but not conceived.(age group between 3 year to 5.5 year) The **assessed** practice of mineral mixture supplementation @ 50 gram/day/animal (heifers) for 100 days was found that 72.5 % heifers are conceived.

Table Effect of mineral mixture supplementation in enhancing conception rate and fertility in buffalo heifers.

Technology Option	No.of trials	Responding Rate %	Conception rate %	Repeating Rate%
T1: Use of choker and common salt (Farmers Practice)	05	-	-	-
T1+mineral mixture supplementations @50g/day/heifers for 100 days. (Recommended Practice)		100	80	20

Value Addition

8. Problem definition: Low income of farm women due to no value addition of mango commercially.

Technology Assessed: Assessment of mango squash, mango papad and amchour making and its marketing for gradational income. Women in rural areas knew only to prepare pickle and chatani from mango. The do not knew how to prepare squash, aampapad and amchour. An OFT on no value addition of mango was design and conducted.The performance of OFT revealed that the value addition of mango can double the family income of rural women.

Critical Input: Preservatives

Table : Assessment of value addition of mango

Technology Option	No. of trials	Product Kg/qt	Gross Cost Rs.	Gross Return Rs.	Net Returns Rs.	% increase in net return	B:C Ratio
T1-Farmers Practices (Mango pickle only)	05	137	3950	4950	1000	-	1.25
T2- a. Preparation of mango squash b. AamPapad c. Amchour		190 19.5 19	9500 2950 1750	18500 5500 3900	9000 2550 2150	94.73 86.44 122.85	1.94 1.86 2.22

PEST AND DISEASE MANAGEMENT

9 . Problem definition: Incidence of Sheath Blight l in Paddy effecting yield loss of 15-20% and income loss of Rs.14000/ha

Technology Assessed (as the case may be): Management of Sheath Blight Disease.

Paddy is an important Cereal crop of mid-western plane zone of UP. However, the productivity of paddy is badly affected by incidence and severity of Sheath Blight disease in District Shahjahanpur. To assess the performance of the technology as seed treatment before sowing and two sprays of fungicide, an OFT was conducted at three locations in 1.2 ha area .The performance of OFT conducted revealed that tested technology can increase20.65% yield over farmers practice.

Table: Effect of Seed Treatment and Spray Fungicide on Incidence of Sheath Blight in Paddy.

Technology Option	**No.of trials**	**Incidence of Sheath blight (%)**	**Yield (q/ha)**	**% Increase in yield over farmer's practice**
Farmers Practice-Spray of Carbendazim@1.0kg/ha	03	14.5	40.34	--
Seed Treatment Tricyclozole@2g/kgand 2 Sprays of Thifluzamide24%SC@375ml/ha.		2.0	48.67	20.65

10. Problem definition: Low yield of Sugarcane due to infestation of Top Borer.

Technology Assessed (as the case may be): Cartap hydrochloride 4 G @ 30 kg/ha and Tricho card @ 15/ha.

Sugarcane is an important cash crop of mid western plane zone of UP.Infestation of Top Borer badly affect the productivity of sugarcane.To assess the performance of technology used,an OFT was conducted at farmers fields at 3 locations in 1.2 ha area.The performance of OFT conducted revealed that using Cartap hydrochloride 4 G @30 kg/ha &Tricho cards @15/ha can increase 32.47 % yield over local farmers practice

Table: Effect of Cartap hydrochloride 4 G & Tricho Cards on infestation of Top Borer in Sugarcane.

Technology Option	**No.of trials**	**Top borer infestation (%NMC)**	**Yield (q/ha)**	**% Increase in yield over farmer's practice**
Farmers Practice-Fipronil 0.3G@20 kg/ha	03	19	633.33	--
Cartap hydrochloride 4 G@30kg/ha+Tricho cards @15/ha (5cards/ha Used 3 Times)		05	841.67	32.47

NMC –Non Millable Canes

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2022-23 and recommended for large scale adoption in the district

S.N.	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
.					No. of villages	No. of farmers	Area in ha
1.	Groundnut	ICM	HYV Seed @100 kg/ha, seed treatment carbendazim@2.5g/kg, Bentonite sulphur@25kg/ha, Mancozeb +Carbendazim@1.25kg/ha, Imidacloperid@0.25l/ha, Chlorpyriphos@2.5l /ha, Trichoderma@5kg/ha	Training, Demonstration, Field Day , Field Visit, Print and Electronic Media	15	72	28.0
2.	Blackgram	ICM	HYVPU-31@15kg/ha,Bentonite Sulphur@25kg/ha,Mancozeb+Carbendazim@1.25kg/ha,Imidacloprid@0.25l/haQuinalphos@2.5l/haTrichoderma@5kg/ha	Training, Demonstration, Field Day , Field Visit, Print and Electronic Media	14	60	17.0
3.	Toria	ICM	HYV(PT-507)@4kg/ha Bentonite Sulphur@25kg/ha,Mancozeb+Carbendazim@1.25kg/ha,Imidacloprid@0.25l/ha	Training, Demonstration, Field Day , Field Visit, Print and Electronic Media	20	55	20.0
4.	Mustard	ICM	HYV RH 749 and Pant Shweta@5kg/ha Bentonite Sulphur@25kg/ha,Mancozeb+Carbendazim@1.25kg/ha,Imidacloprid@0.25l/ha	Training, Demonstration, Field Day , Field Visit, Print and Electronic Media	22	58	20.0
5.	Lentil	ICM	HYV Seed (KLS-09-03)@30kg/ha,Carbandazim+mancokzeb@1.25kg/ha, sulphur W.P.@ 2.5kg/ha, Trichoderma @ 5kg/ha	Training, Demonstration, Field Day , Field Visit, Print and Electronic Media	20	82	52.0

**** Thematic areas as given in Table 3.1 (A1 and A2)***

b. Details of FLDs implemented during Jan 2022 to June 2023

(Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Groundnut	ICM	HYV Seed GJG @100kg/ha, Bentonite sulphur 90%@12.5 kg/ha Mancozeb+Carbendazim @1.25kg/ha, Imidacloprid@0.25l/ha, Trichoderma@5kg/ha	Kharif 2022	10.0	10.0	03	22	25	
2.	Sesamum	ICM	HYV GJT-5 @ 5kg/ha, Bentonite sulphur 90%@12.5 kg/ha Quinalphos 50 EC@1.25l/ha Mancozeb + carbandazim @1.25kg/ha	Kharif 2022	10.0	10.0	05	20	25	
3.	Blackgram	ICM	HYV @15kg/ha, Bentonite sulphur 90%@12.5 kg/ha Quinalphos 50 EC@1.25l/ha Mancozeb+carbandazim @1.25kg/ha	Kharif 2022	20.0	20.0	07	43	50	
4.	Mustard	ICM	HYV Giriraj (DMRIJ-31) @5kg/ha sulphur W.P.@ 2.5kg/ha,Imidacloprid@ 0.25l/ha	Rabi 2022-23	20.0	20.0	09	41	50	
5.	Lentil	ICM	HYV L-4717@30kg/ha, Mancozeb+Carbendazim@ 1.25kg/ha, Imidacloprid@0.25l/ha, Trichoderma@5kg/ha	Rabi 2022-23	20.0	20.0	04	46	50	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Groundnut	Kharif 2022	Irrigated	Sandy Loam	L	L	M	Wheat	14-18 July 2022	21-25 Oct. 2022	414	20
Sesamum	Kharif 2022	Irrigated	Sandy Loam	L	L	M	Wheat	15-20 July 2022	17-22 Oct. 2022	414	20

Blackgram	Kharif 2022	Irrigated	Sandy Loam	L	L	M	Wheat	17-25 July 2022	05-10 Oct. 2022	414	20
Mustard	Rabi 2022-23	Irrigated	Sandy Loam	L	L	M	Paddy	05-11 Nov.2022	20-28 March 2023	83	09
Lentil	Rabi 2022-23	Irrigated	Sandy Loam	L	L	M	Paddy	05-10 Nov. 2022	15-20 March 2023	83	09

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	**Feed Back for researchers**	**Feedback for line department**
1	Use of Sulphur in oilseeds crops increased yield and oil content	Use of Sulphur in oilseeds crops needs promotion
2	Use of Sulphur WP increased yield in pulses	Use of Sulphur WP in pulses needs promotion

Technical feedback on specific technologies demonstrated in FLDs

S. No	**Feed Back**
1	Use of Bentonite sulphur as basal dose and Sulphur WP in standing crop before flowering is beneficial increased oil content
2	Sulphur provides resistance to various leaf spot and blight diseases in pulses
3	Use of Trichoderma provided resistance to wilt . root rot in groundnut and Lentil

Extension and Training activities under FLD

Sl.No.	**Activity**	**No. of activities organised**	**Date**	**Number of participants**	**Remarks**
1	Field days	09	Jan.2022 to June,2023	140	-
2	Farmers Training	09	Jan.2022 to June,2023	140	-
3	Media coverage	25	Jan.2022 to June,2023	Mass	-
4	Training for extension functionaries	02	Jan.2022 to June,2023	11	-

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Parameters name (No. of branches, No. of tillers, No. of pods or grains per plant, duration (days), No. of plants/sq mt.)	Result of main parameter				% Advantage	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
							Demo plot			Check plot		Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
							High	Low	Average			High	Low	Average										
Groundnut																								
	ICM	HYV Seed GJG @100kg/ha, Bentonite sulphur 90%@12.5 kg/ha Mancozeb+Carbendazim @1.25kg/ha, Imidacloprid@0.25l/ha, Trichoderma@5 kg/ha	GJG-22	25	10	No. of branches/ plant No. of pods/plant	10 52	07 48	9.5 51.6	06 45	58.33 14.60	21.3	13.5	18.5	12.1	52.89	36000	98050	62050	2.73	32000	64130	32130	2.0
Sesamum																								
	ICM	HYV GJT-5 @ 5kg/ha, Bentonite sulphur 90%@12.5 kg/ha Quinalphos 50 EC@1.25l/ha Mancozeb + carbandazim @1.25kg/ha	GJT-5	25	10	No. of branches/ plant No. of pods/plant	07 51	05 49	6.5 44	3.5 32	85.71 37.50	7.2	4.1	5.5	3.9	41.05	20500	37400	16900	1.82	16050	26520	10470	1.65

Mustard																								
	ICM	HYV Giriraj (DMRIJ-31) @5kg/ha sulphur W.P.@ 2.5kg/ha,Imidacloprid@ 0.25l/ha	Griraj DMRIJ-31	50	20	No. of Siliqua/plant No. of seeds/ Siliqua	205 16	192 14	201 15	175 12	14.85 25.00	24.5	17.6	22.5	16.5	36.36	28500	157500	12900	5.52	25500	115500	90000	4.52
Toria																								
Linseed																								
Sunflower																								
Soybean																								

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

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	**Feed Back for researchers**	**Feedback for line department**
1	Use of Sulphur in oilseeds crops increased yield and oil content	Use of Sulphur in oilseeds crops increased yield and oil content

Technical feedback on specific technologies demonstrated in FLDs

S. No	**Feed Back**
1	Use of Bentonite sulphur as basal dose and Sulphur WP in standing crop before flowering is beneficial increased oil content

Frontline demonstration on pulse crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Parameters name (No. of branches, No. of tillers, No. of pods or grains per plant, duration (days), No. of plants/sqmt.)	Result of main parameter				% Advantage	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
							Demo plot			Check plot		Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
							High	Low	Average			High	Low	Average										
Pigeonpea																								
Blackgram																								
	ICM	HYV @15kg/ha, Bentonite sulphur 90%@12.5 kg/ha Quinalphos 50 EC@1.25l/ ha Mancozeb +carbandazim @1.25kg/ha	Pratap Urd-1	50	20	No. of branches/ plant No. of pods/ plant	10 52	08 48	09 50	06 40	50 25	16.5	11.2	12.5	8.2	52.43	30500	75000	44500	2.40	25000	49200	24200	1.96
Greengram																								
Chickpea																								

Fieldpea																								
Lentil																								
	ICM		L-4717	50	20	No. of pods/ plant	41	37	40.5	32	26.56	16.5	11.7	14.8	9.1	62.63	32650	96200	63550	2.95	28150	63700	35550	2.26
						No of seeds/ pod	1.6	1.2	1.5	0.9	66.66													
Horsegram																								

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

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	**Feed Back for researchers**	**Feedback for line department**
1	Use of Sulphur WP increased yield in pulses	Use of Sulphur WP increased yield in pulses
2	Lentil variety L-4717 perform resistant to wilt disease	Lentil variety L-4717 perform resistant to wilt disease

Technical feedback on specific technologies demonstrated in FLDs

S. No	**Feed Back**
1	Sulphur provides resistance to various leaf spot and blight diseases in pulses
2	Use of Trichoderma provided resistance to wilt . root rot in in Lentil

FLD on Other crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Parameters name (No. of branches, No. of tillers, No. of pods or grains per plant, duration (days), No. of plants/sq mt.)	Result of main parameter				% Advantage	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
							Demo plot			Check plot		Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
							High	Low	Average			High	Low	Average										
Cereals																								
Paddy																								
Paddy Kharif 2022	IPM	Cartap Hydrochloride 4G@25kg/ha and Cartap Hydrochloride 50SP @1kg/ha	PR-113	05	2.0	% of dead hearts at tillring stage	3.1	1.5	2.3	15.5	85.16	53.5	50.5	51.76	42.52	21.73	46800	95756	48956	2.04	41950	78662	36712	1.87
Paddy Kharif 2022	IWM	Pretilachlor @500ml/ha	PR-113	10	4.0	Grains per panicle	142	135	139	129	7.19	54.1	50.5	57.9	41.8	24.16	47100	96015	48915	2.03	46300	77330	31030	1.67
Paddy Kharif 2022	INM	Zinc+ Sulphur	Basmati	10	4.0	Plant height (in cm)	105	96	100.5	97	3.48	55.5	49.9	52.3	42.3	23.64	47500	96755	49255	2.04	44500	78255	33755	1.75
Waterlogged Situation																								
Coarse Rice																								
Scented Rice																								
Wheat	Varietal	HD 3226	HD 3226	06	1.2	Plant height (in cm)	112	103	107.5	101	6.04	59.5	53.1	58.2	43.5	33.79	47500	123675	76175	2.6	46500	92437	45937	1.98

	Weed Control	Chlorinofop Propozyl 15% WP 0.8 kg/ha	HD 2967	10	4.0	Effective tillers / m^2	272	260	266	237	10.9	56.2	48.5	55.3	43.25	21.53	45500	99540	54040	2.18	44600	81900	37300	1.83
Wheat Timely sown																								
Wheat Late Sown																								
Mandua																								
Barley																								
Maize																								
Amaranth																								
Millets																								
Jowar																								
Bajra																								
Barnyard millet																								
Finger millet																								

Vegetables																								
Bottlegourd																								
Bittergourd																								
Cowpea																								
Spongegourd																								
Petha																								
Tomato																								
Frenchbean																								
Capsicum																								
Chilli																								
Brinjal	ICM	Hybrid Variety seed Kashi Sandesh	Kashi Sandesh	05	1.0	No of fruits per plant	45	30	37.5	30	25.66	499.20	485.76	492.23	381.97	28.87	81500	492230	410730	5.039	70100	343773	273673	3.90
Vegetable pea																								

Softgourd																								
Okra																								
Colocasia (Arvi)																								
Broccoli																								
Cucumber																								
Onion	**ICM**	Seed of Onion Variety Pusa Ridhi		05	1.0							196	187	192	138	39.13	40200	153600	113400	3.82	35500	96600	61600	2.72
Coriender																								
Lettuce																								
Cabbage																								
Cauliflower																								
Elephant fruit																								
Flower crops																								

Marigold																								
Bela																								
Tuberose																								
Gladiolus																								
Fruit crops																								
Mango																								
Strawberry																								
Guava																								
Banana																								
Papaya																								
Muskmelon																								
Watermelon																								
Spices & condiments																								

Ginger																								
Garlic																								
Turmeric																								
Commercial Crops																								
Sugarcane																								
Potato	IDM	Mancozeb 75% @ 2.5 kg/ha Mancozeb+ metalaxyl @1.25 kg/ha	Kufri-Pukhraj	05	2.0	% incidence of late blight	2.2	1.75	1.97	8.5	76.82	365	335	350	288	21.35	72000	420000	348000	5.83	68500	345600	277100	5.04
Medicinal & aromatic plants																								
Mentholment																								
Kalmegh																								
Ashwagandha																								
Fodder Crops																								

Sorghum (F)																								
Cowpea (F)																								
Maize (F)																								
Lucern																								
Berseem																								
Oat (F)																								

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	**Feed Back for researchers**	**Feedback for line department**
1	This hybrid seed of brinjal is almost good for farmers but minute problems of fruit borer occurs.	Needs to popularize this variety of brinjal among vegetable farmers in distt Shahjahanpur
2		

Technical feedback on specific technologies demonstrated in FLDs

S. No	**Feed Back**
1	Varietal demonstration of brinjal at farmer's field, response is very good.
2	

FLD on Livestock

Category	**Thematic area**	**Name of the technology demonstrated**	**No. of Farmer**	**No.of Units (Animal/ Poultry/ Birds, etc)**	**Major parameters**		**% change in major parameter**	**Yield (Kg/animal) or No. of eggs/bird)**		**Economics of demonstration (Rs.)**				**Economics of check (Rs.)**			
					Demo	**Check**		**Demo**	**Check**	**Gross Cost**	**Gross Return**	**Net Return**	**BCR (R/C)**	**Gross Cost**	**Gross Return**	**Net Return**	**BCR (R/C)**

Cattle																	
	Disease Managment	Deworming (Fenbendazole + Ivermectin)	50	100	Nil worm infestation	90% worm infestation		6.1Lit/day	5.4Lit/day	212.5	277.5	65	1.30	204.3	245.2	40.9	1.2
Buffalo																	
Buffalo Calf																	
Dairy																	
Poultry																	
Sheep & Goat																	
Vaccination																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	**Feed Back for researchers**	**Feedback for line department**
1	To develop such a dewormer drug having combination of two salts and record the effect of this drug on dry, milch and pregnant animals. To evaluate efficacy of de-wormer drugs and its impact on production & reproduction.	To make aware farmers to adopt deworming practices like time of deworming and interval of two consecutive deworming and its beneficial impact to improve production capacity of animals.
2	Prepare pregnancy safe de-wormer drug and evaluate the efficacy if these drugs.	To follow regular deworming schedule for animals as it improves the production and reproductive performance of animals, reduce mortality rate in calves and improve the growth rate.

Technical feedback on specific technologies demonstrated in FLDs

S. No	**Feed Back**
1	
2	

FLD on Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps																	
Composite fish culture																	
Feed Management																	

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

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	**Feed Back for researchers**	**Feedback for line department**
1		
2		
3		
4		

Technical feedback on specific technologies demonstrated in FLDs

S. No	**Feed Back**
1	
2	
3	
4	

FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oyster Mushroom																
Button Mushroom																
Apiculture																
Maize Sheller																
Value Addition																
Vermi Compost																

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	**Feed Back for researchers**	**Feedback for line department**
1		
2		

Technical feedback on specific technologies demonstrated in FLDs

S. No	**Feed Back**
1	
2	

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	Feed Back for researchers	Feedback for line department
1		
2		

Technical feedback on specific technologies demonstrated in FLDs

S. No	Feed Back
1	
2	

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	Feed Back for researchers	Feedback for line department
1		
2		

Technical feedback on specific technologies demonstrated in FLDs

S. No	Feed Back
1	
2	

FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters (Availability of vegetable in gram/person/day)		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Nutrition Kitchen Garden Rabi 2021-22	House hold food security by Nutrition Kitchen Gardening	High yielding varieties of vegetable seeds	05	05	198	139	42.44	235kg	165	2027500	237360	29860	1.14	129265	138700	9435	1.07
Nutrition Kitchen Garden Kharif 2022	House hold food security by Nutrition Kitchen Gardening	High yielding varieties of vegetable seeds	10	10	395	290	36.2	470g	345g	187570	255750	65180	1.68	168750	224600	55850	1.37
Nutrition Kitchen Gardening (Rabi 2022-23)	House hold food security by Nutrition Kitchen Gardening	High Yielding variety of vegetable seeds	10	10	196	183.7	6.6	326.66	306.66	158900	29400	135100	1.85	145500	220440	74940	1.51

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	Feed Back for researchers	Feedback for line department
1	Varieties of vegetable and fruits needed to be deloped suitable for kitchen garden	Nutrition kitchen garden vegetables seed kits and fruit saplings should be provided to farmers

Technical feedback on specific technologies demonstrated in FLDs

S. No	Feed Back
1	Farmers should be encouraged to grow high yielding varieties of vegetable and fruits saplings

FLD on Demonstration details on crop hybrids *(Details of Hybrid FLDs implemented during* **2023***)*

Crop	Technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average						
Oilseed crop													

Pulse crop													
Cereal crop													
Vegetable crop													
Fruit crop													
Other (specify)													

Note : Remove the Enterprises/crops which have not been shown

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	**Feed Back for researchers**	**Feedback for line department**
1		
2		

Technical feedback on specific technologies demonstrated in FLDs

S. No	**Feed Back**
1	
2	

Home Science FLD other than oilseed & pulses (Year 2022)

Crop/Activity	technology demonstrated	No. of Farmers	Area (ha)	Harvested area sq mt /hour		% Change	Mandays / ha		Saving of Mandays / ha	Cost reduction /ha (Rs)
				Demo	Check		Demo	Check		
Wheat cutting	Improved sickle (Naveen)	05	0.05	104	89	16.8	13	11	02	2x300=600
Paddy cutting	Improved sickle (Naveen)	05	0.05	116	94	23.4	11	14	03	3x300=900

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	Feed Back for researchers	Feedback for line department
1	Darati can be made by using stainless sheet to increase its durability	Naveen darati should be provided to farmers at large scale

Technical feedback on specific technologies demonstrated in FLDs

S. No	Feed Back
1	Naveen darati should be used for hand harvesting of crops as well as

III. Natural Farming

1) Crop Harvesting Details

Name of KVK	Crop Details Under Demonstration										Date of Sowing	Date of Harvesting
	Natural farming					Farmer's Practice						
	Name of Crop	Variety	Area(ha)	Yield (Q/ha)	Total Cost of Cultivation (Rs./ha)	Name of crop	Variety	Area(ha)	Yield (Q/ha)	Total Cost of Cultivation (Rs./ha)		
Shahjahanpur	Paddy	PB-1509	0.125	12.80	22600	-	-	-	-	-	-	-
	Wheat	DBW-107	0.125	23.00	24500	Wheat	DNW-107	0.40	34.81	44964	14.11.22 to 26.11.22	09.04.23 to 22.04.23

2) Preliminary Soil Data of Natural Farming Field

Name of KVK	Soil data of Demonstrated/KVK Plot	Soil Analysis				Micronutrients				Microbial Analysis				
		N (Kg/ha)	P (Kg/ha)	K (Kg/ha)	Organic Carbon (%age)	Ca (Kg/ha)	Mg (Kg/ha)	Zn (Kg/ha)	Others	Bacterial count (Nos.)	Fungi (Nos.)	Actinomycetes (Nos.)	Phosphorus Solubilizer (Nos.)	N Fixers (Nos.)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

3) Details of Demonstrations Conducted under Natural Farming Project

S. No.	Name of KVK	Name of village	Name of farmer	Mobile no. of farmer	Area under demonstration on Natural Farming (ha)
1	KVK, Shahjahanpur	Bharthauli	Vikas kumar Singh	9793923448	0.4
2		Takeli	Radhe Shyam	9721914893	0.4
3		Biladpur gaddipur	Kunendra Pal singh Arya	7388468177	0.4
4		Samdhana	Salik Ram	9236653610	0.4
5		Baribara	Sukhlal Verma	8476888957	0.4

6		Gadhchapa	Vijay Pal Singh	9473554769	0.4
7		Gurthana	Kaushal Kishor	9198795808	0.4
8		Imaliya	Pramod Kumar	9453308296	0.4
9		Nibiya Nagala	Satyendra Singh	8400829008	0.4
10		Nibiya Nagala	Ram Sevak	8081530691	0.4
11		Baldevpur	Dinesh Kumar	9696388092	0.4
12		Etamadpur pidariya	Ram Dev	8299172993	0.4
13		Dhaka	Raj Veer Yadav	9208214541	0.4
14		Bilhara	Ram Saran	9918610041	0.4
15		Sarovan nagar	Dharmesh Kumar	7376969661	0.4
16		Niyamatpur	KVK,	9450416956	0.4

4) Information of Farmers already Practicing Natural Farming

Sl. No.	Name of the District	Name of the Farmers	No. of desi (indigenous) cows	Land holding (ha)	Crops Grown	No. of Years in Natural Farming	Area Covered under Natural Farming (ha)	Crops Grown under Natural Farming	Any significant achievements under natural farming
1	Shahjahanpur	72	-	110	Wheat, Paddy, Sugarcane, Tomato,Mustard, Brinjal, Chilli, Sweet potato, Jowar, Bajra, Maize	01-05	110	Wheat, Paddy, Sugarcane, Tomato,Mustard, Brinjal, Chilli, Sweet potato, Jowar, Bajra, Maize	

5) Natural Farming Nodal officer & Associate Name

S.No.	Name of KVK	Name of Head/SMS	Discipline/Subject	Mobile No.
1.	Shahjahanpur	Dr. Narendra Prasad	Prof. Agri. Extension	9450416956
2.	Shahjahanpur	Dr. Shiv Kumar Yadav	S.M.S. Livestock Production	9473588885

6) Preliminary Soil Data of Natural Farming Field

Name of KVK	Soil data of Demonstrated/KVK Plot	Soil Analysis				Micronutrients				Microbial Analysis				
		N (Kg/ha)	P (Kg/ha)	K (Kg/ha)	Organic Carbon (%age)	Ca (Kg/ha)	Mg (Kg/ha)	Zn (Kg/ha)	Others	Bacterial count (Nos.)	Fungi (Nos.)	Actinomycetes (Nos.)	Phosphorus Solubilizer (Nos.)	N Fixers (Nos.)

IV. Drone Project

1) Details of Drone Training

S.No	Name of the Institute/KVK	No. of Drone Alloted	No. of Drones Received	No. of Trainees	Name of RPTOs (Pilot)	Designation of Trainee	Mob No. of Trainee	Email Id of Trainee	Training Institute	Training Status Done/Scheduled	Passport No. of the Trainee	Training Schedule	Remarks about Training Schedule

2) Details of Nodal officers under Drone Project

S.No	Name of the Institute	Name of Nodal Officer	Contact No.	Email

3) Expenditure regarding Agri-Drone

S. No.	Name of KVK, ICAR Institute and AU	No. of Drones allotted	No. of Drones Purchased	Funds for purchase of Drones@ Rs.10.0 lakh/drone	Funds for conducting demonstration Rs.@ 0.03 lakh/demo Rs. In lakh	Total funds released (Rs. In Lakh)	Funds utilized for purchase of Drones (Rs. In Lakh)	Funds utilized for conducting demonstration (Rs. In Lakh)	Total Fund Utilized (Rs. In Lakh)	Balance (Rs. In Lakh)	Percentage Utilization of Released Budget	Target Area under demonstration (ha)	Area under herbicidal spray (ha)	Area under insecticidal spray (ha)	Area under fertilizer spray (ha)	Area under nano-fertilizer spray (ha)	Total target achieved under demonstration (ha)

V. DAMU Project

PROJECT DETAILS

1. Title of the Project **:** Gramin Krishi Mausam Sewa (GKMS)

2. Sanction letter **:** ATARI/DAMU/2018-19

3. Name of Damu, District, ATARI zone and Year

DAMU Name **:** District Agro Meteorology Unit, Shahjahanpur.

District **:** Shahjahanpur

ATARI Zone **:** Zone III, Kanpur

Year of start of AAS at DAMU **:** 2020

Name of Blocks **:** Banda, Bhawal Khera, Dadrol, Jaitipur, Jalalabad, Kalan, Kanth, Khudaganj Katra, Khutar, Madnapur, Mirzapur, Nigohi, Powayan, Sindhauli, Tilhar **(15 Blocks).**

4. Name and address with landline and mobile numbers along with STD code (also provide e-mail address) of head of ATARI, Project Coordinator, Head of the Krishi Vigyan Kendra (KVK)

Designation	Name	Address	STD code Telephone no. & Fax	Email-id
Head of ATARI	Dr. Shantanu Kumar Dubey	Nandini 7B, Kanha Shyam Residency, Mukharji Vihar, Indira nagar, Kanpur	9936209925, 9651420137	shantanu.kumar@icar.gov.in skumar710@gmail.com
Head of KVK	Dr. N.C Tripathi	Krishi vigyan Kendra, Shahjahanpur	9027805571	shahjahanpurkvk@gmail.com
Project Coordinator (PC)	Dr. N.C Tripathi	Krishi vigyan Kendra, Shahjahanpur	9027805571	shahjahanpurkvk@gmail.com
SMS	Vaccant	-	-	-
Agromet Observer (AO)	Mr. Kumar Ashirwad Gautam	Mannapurwa Lucknow Road Hardoi District- Hardoi Pin -241001	7652065291	Kumarashirwad007@gmail.com

5. Date of start of Agromet Advisory Bulletins: 03-04-2020

6. Nearest Air, Tv And Railway Station (provide the road distance from DAMU)

(i) Air Station : Lucknow (200 Km.)

(ii) TV Station : Lucknow (198 Km.)

(iii) Railway Station: Shahjahanpur Junction (7.0 Km.)

7. Status of Agro-AWS

7.1 Date of installation of AWS : **10 August 2021**

7.2 List of instruments presently available in working condition: **Temaperature Humidity Sensor, Ultrasonic Wind Sensor, Rain Gauge Sensor, Soil Sensor, Sunshine Duration Sensor, Solar Pannel , Battery , AWS System, Data Logger.**

7.3 Instruments to be replaced/repaired indicating type of defect: **No**

7.4 Please provide frequency of observation, exposure conditions of the site etc. **Not Available**

7.6 Number of years of data records available: **From 10 August 2021 to till now**

7.8 Whether the observatory is periodically inspected, maintained and calibrated by IMD (If yes, please indicate the latest data of inspection by the IMD) : **Yes**

7.9 Details of soil moisture observations taken, if any (please provide frequency and depths of observation etc.) -**Instrument not purchased due to insufficient balance.**

8. Details of Agromet Advisory Services

i. How many times the weather forecasts were received during the year:

ii. When do you receive the forecasts from MC/RMC? : **Every Tuesday and Friday**

iii. How many AAS bulletins were prepared and disseminated to the farmers in the year?

S. No.	Advisory Name	Number of Advisories
1.	District	356
2.	Blocks	356×15 = 5340
Total		**5696**

iv. How many AAS bulletins were prepared using Agromet-DSS in English and regional languages?

S. No.	Advisory Name	Number of Advisories
1.	District	356
2.	Blocks	356×15 = 5340
Total		**5696**

v. List the modes of mass communication adopted for AAS dissemination:

Through Whatsapp groups, Facebook, Newspaper, SMS and Direct Contact etc.

vi. Details of broadcast on AIR and TV (name of station broadcast frequency, time slot provided etc.) (Audio tape of the recent broadcast): **NA**

vii. Give list of farmers awareness programmes conducted like Krishi / Kishan Melas, training, participation in national day parades etc. and photograph of Farmer's Awareness Programme (no of Farmer attended).

FAP/Farmers meet / Meghdoot Popularization activities					
Month	Date	Title	Organization	Place	No. of Participants
January	10-01-2023	Introduction of Gramin Krishi Mausam Sewa, Meghdoot mobile app popularization and Management of Rabi crops based on Weather	KVK	KVK	**30**
January	17-01-2023	Farmers training regarding Management of Rabi crops based on Weather	KVK	**Village-Ghulamkheda , Shahjahanpur**	**30**
February	**09-02-2023**	Farmers training regarding Management of Rabi crops based on Weather	KVK	**Village-Gadchapa, Block- Kanth , Shahjahanpur**	**30**

February	**20-02-2023**	Introduction of Gramin Krishi Mausam Sewa, Meghdoot mobile app popularization	KVK	KVK	**100**
February	**27-02-2023**	Farmers training regarding Damini mobile app popularization	KVK	KVK	**30**
March	03-03-2023	Introduction of Gramin Krishi Mausam Sewa, Meghdoot mobile app popularization	KVK	KVK	**30**
March	06-03-2023	Kisan Ghosthi under DAMU project	KVK	**Village-Mahaudurg , Shahjahanpur**	**100**
March	10-03-2023	Introduction of Gramin Krishi Mausam Sewa, Meghdoot mobile app popularization	KVK	**Village-Dhakiyahamidnagar , Shahjahanpur**	**30**
TOTAL					380

viii. No of SMS sent through Kisan Portal and how many farmers were benefitted during the year

ix. List of other organizations receiving Agromet advisories: **Horticulture Department of Shahjahanpur, Agriculture Department of Shahjahanpur, Soil Department of Shahjahanpur , Soil Conservation Department of Shahjahanpur.**

9. Verification results of District and Block level weather forecast: Not Available

10. Economic impact of Agromet advisory services:

- Under GKMS, farmers started weather tuned farming and optimum use of inputs and different farm operations well in time through AAS in a particular agro-climatic zone.
- Due to judicious and timely utilization of inputs, production cost for the AAS farmers reduces.
- The increased yield level and reduced cost of cultivation led to increase of net returns.
- AAS based on weather forewarning has also significant impact on farmer's income.

11. Mobile APP based Agromet advisory services for farmers: Meghdoot Mobile App

12. Feedback from progressive farmers:

We have received good farmers' feedback about the application of Agromet Advisory Bulletin, based on current and forecasted weather, which is useful for enhancing their production and income. They accepted that yield were increase in different crops *i.e*. paddy, pigeonpea, wheat, chickpea, mustard, vegetables, flowers etc. through technical guidance on all cultivation aspects, especially selection of varieties, timely application of fertilizers , pesticides, input and post harvest management saving in terms of water, manpower, electricity and fuel through proper irrigation scheduling.

VI. Training Programme

Farmers' Training including sponsored training programmes (on campus)

Thematic area (May be specific to any given KVK)	Actual Title of training conducted	No. of courses	Participants								
			Others			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production											
Weed Management	Weed Management of Zaid pulses	02	38	0	38	02	0	02	40	0	40
Resource Conservation Technologies	Rabi Pulse Production on FIRBS	02	38	0	38	02	0	02	40	0	40
Cropping Systems											
Crop Diversification											
Integrated Farming											
Micro Irrigation/irrigation											
Seed production											
Nursery management											
Integrated Crop Management	Direct seed and SRI Production Technology	02	38	0	38	02	0	02	40	0	40
Soil & water conservatioin	Water Management in Rabi crops	02	38	0	38	02	0	02	40	0	40
Integrated nutrient management											
Production of organic inputs											
Others (pl specify)											
Total		**08**	**152**	**0**	**152**	**08**	**0**	**08**	**160**	**0**	**160**
II Horticulture											
a) Vegetable Crops											
Production of low value and high volume crops	Production Technology of Bottle Gourd and Bitter Gourd by Scaffold Method	01	13	01	14	06	0	6	19	01	20
	Insect, Pest and Disease management of Cucurbits	01	18	0	18	02	0	2	20	0	20
Off-season vegetables	Production Technology of Off-season vegetables	02	36	0	36	04	0	04	40	0	40
Nursery raising	Nursery Management in Vegetables	01	20	0	20	0	0	0	20	0	20
Exotic vegetables											
Export potential vegetables											
Grading and standardization											
Protective cultivation											
Others (pl specify)											
Total (a)		**05**	**87**	**01**	**88**	**12**	**0**	**12**	**99**	**01**	**100**
b) Fruits											
Training and Pruning											
Layout and Management of Orchards											
Cultivation of Fruit											
Management of young plants/orchards	Management of young orchards	02	32	0	32	08	0	08	40	0	40
Rejuvenation of old orchards											
Export potential fruits											
Micro irrigation systems of orchards											
Plant propagation techniques											
Others (pl specify)											

Total (b)		**02**	**32**	**0**	**32**	**08**	**0**	**08**	**40**	**0**	**40**
c) Ornamental Plants											
Nursery Management											
Management of potted plants											
Export potential of ornamental plants											
Propagation techniques of Ornamental Plants											
Others (pl specify)											
Total (c)											
d) Plantation crops											
Production and Management technology											
Processing and value addition											
Others (pl specify)											
Total (d)											
e) Tuber crops											
Production and Management technology											
Processing and value addition											
Others (pl specify)											
Total (e)											
f) Spices											
Production and Management technology											
Processing and value addition											
Others (pl specify)											
Total (f)											
g) Medicinal and Aromatic Plants											
Nursery management											
Production and management technology											
Post harvest technology and value addition											
Others (pl specify)											
Total (g)											
GT (a-g)		**07**	**119**	**01**	**120**	**20**	**0**	**20**	**139**	**01**	**140**
III Soil Health and Fertility Management											
Soil fertility management											
Integrated water management											
Integrated Nutrient Management	Integrated Nutrient Management	01	18	0	18	02	0	02	20	0	20
Production and use of organic inputs	Production and use of organic inputs	01	17	0	17	03	0	03	20	0	20
Management of Problematic soils											
Micro nutrient deficiency in crops											
Nutrient Use Efficiency	Technology of Fertilizer use Efficiency	01	17	0	17	03	0	03	20	0	20
Balance use of fertilizers											

Soil and Water Testing											
Others (pl specify)	Natural Farming	02	35	0	35	05	0	05	40	0	40
Total		**05**	**87**	**0**	**87**	**13**	**0**	**13**	**100**	**0**	**100**
IV Livestock Production and Management											
Dairy Management	Calf management	01	13	0	13	07	0	07	20	0	20
Poultry Management											
Piggery Management											
Rabbit Management											
Animal Nutrition Management											
Disease Management	FMD in animals, its symptom and control FMD, RP, PPR: aetiology, mode of transmission, treatment, prevention & control BQ, HS, TRP: prevention & control	03	50	0	50	10	0	10	60	0	60
Feed & fodder technology											
Production of quality animal products											
Others (pl specify)											
Total		**04**	**63**	**0**	**63**	**17**	**0**	**17**	**80**	**0**	**80**
V Home Science/Women empowerment											
Household food security by kitchen gardening and nutrition gardening	Household food security by nutrition kitchen gardening	01	0	20	20	0	0	0	0	20	20
Design and development of low/minimum cost diet	Balanced diet for children	01	0	18	18	0	02	02	0	20	20
Designing and development for high nutrient efficiency diet	Importance of coarse grains in diet	01	0	18	18	0	02	02	0	20	20
	Management of high Nutrient efficient diet	01	0	17	17	0	03	03	0	20	20
Minimization of nutrient loss in processing											
Processing and cooking											
Gender mainstreaming through SHGs											
Storage loss minimization techniques	Storage loss minimization techniques	02	0	38	38	0	02	02	0	40	40
Value addition	Importance of soya bean in diet and its processing	01	0	20	20	0	0	0	0	20	20
	Preparation of Mango products	01	0	20	20	0	0	0	0	20	20
Women empowerment	Small Scale cottage industries for women empowerment	02	0	38	38	0	02	02	0	40	40
Location specific drudgery reduction technologies											
Rural Crafts											
Women and child care	Importance of human health and hygiene	01	0	20	20	0	0	0	0	20	20
Others (pl specify)											

Total		**11**	**0**	**209**	**209**	**0**	**11**	**11**	**0**	**220**	**220**
VI Agril. Engineering											
Farm Machinary and its maintenance											
Installation and maintenance of micro irrigation systems											
Use of Plastics in farming practices											
Production of small tools and implements											
Repair and maintenance of farm machinery and implements											
Small scale processing and value addition											
Post Harvest Technology											
Others (pl specify)											
Total											
VII Plant Protection											
Integrated Pest Management	IPM in Groundnut and Til	01	18	0	18	02	0	02	20	0	20
	IPM in Zaid Pulses	01	18	0	18	02	0	02	20	0	20
Integrated Disease Management	Management of Diseases in Toria and Mustard	01	13	0	13	06	01	07	19	01	20
Bio-control of pests and diseases											
Production of bio control agents and bio pesticides											
Others (pl specify)											
Total		**03**	**49**	**0**	**49**	**10**	**01**	**11**	**59**	**01**	**60**
VIII Fisheries											
Integrated fish farming											
Carp breeding and hatchery management											
Carp fry and fingerling rearing											
Composite fish culture											
Hatchery management and culture of freshwater prawn											
Breeding and culture of ornamental fishes											
Portable plastic carp hatchery											
Pen culture of fish and prawn											
Shrimp farming											
Edible oyster farming											
Pearl culture											
Fish processing and value addition											
Others (pl specify)											
Total											
IX Production of Inputs at site											
Seed Production											
Planting material production											
Bio-agents production											
Bio-pesticides production											
Bio-fertilizer production											

Vermi-compost production											
Organic manures production	Organic manures production	01	19	0	19	01	0	19	20	0	20
Production of fry and fingerlings											
Production of Bee-colonies and wax sheets											
Small tools and implements											
Production of livestock feed and fodder											
Production of Fish feed											
Mushroom Production											
Apiculture											
Others (pl specify)											
Total											
X Capacity Building and Group Dynamics											
Leadership development											
Group dynamics											
Formation and Management of SHGs	Formation and Management of SHGs/FPO	02	36	0	36	04	0	04	40	0	40
Mobilization of social capital											
Entrepreneurial development of farmers/youths											
WTO and IPR issues											
Others (pl specify)											
Total		**03**	**55**	**0**	**55**	**05**	**0**	**05**	**60**	**0**	**60**
XI Agro-forestry											
Production technologies											
Nursery management											
Integrated Farming Systems											
Others (pl specify)											
Total											
GRAND TOTAL		**41**	**525**	**210**	**735**	**73**	**12**	**85**	**598**	**222**	**820**

Farmers' Training including sponsored training programmes (off campus)

Thematic area (May be specific to any given KVK)	**Actual Title of training conducted**	**No. of courses**	**Participants**								
			Others			**SC/ST**			**Grand Total**		
			Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
I Crop Production											
Weed Management	Weed Management in wheat	01	18	0	18	02	0	02	20	0	20
	Integrated weed management in sugarcane	01	17	0	17	03	0	03	20	0	20
Resource Conservation Technologies	Residue management in wheat	01	18	0	18	02	0	02	20	0	20
	Residue management in paddy	01	16	0	16	04	0	04	20	0	20
Cropping Systems											
Crop Diversification											
Integrated Farming											
Micro Irrigation/irrigation											
Seed production											
Nursery management											

Integrated Crop Management	Foliar application of soluble fertilizer in rabi oilseed and pulses	01	17	0	17	03	0	03	20	0	20
	Foliar application of soluble fertilizer in crop production	01	18	0	18	02	0	02	20	0	20
Soil & water conservation	Water management in kharif pulses	01	18	0	18	02	0	02	20	0	20
Integrated nutrient management											
Production of organic inputs											
Others (pl specify)											
Total		**07**	**122**	**0**	**122**	**18**	**0**	**18**	**140**	**0**	**140**
II Horticulture											
a) Vegetable Crops											
Production of low value and high valume crops	Advance Production Techniques of Bottle Gourd	02	34	03	37	03	0	03	37	03	40
Off-season vegetables											
Nursery raising											
Exotic vegetables											
Export potential vegetables											
Grading and standardization											
Protective cultivation	Micro Irrigation Management of vegetables	01	10	0	10	10	0	10	20	0	20
Others (pl specify)											
Total (a)		**03**	**44**	**03**	**47**	**13**	**0**	**13**	**60**	**0**	**60**
b) Fruits											
Training and Pruning											
Layout and Management of Orchards											
Cultivation of Fruit	Production Techniques of Papaya	02	38	02	40	0	0	0	38	02	40
	Cultivation Practices of minor fruits	02	40	0	40	0	0	0	40	0	40
Management of young plants/orchards											
Rejuvenation of old orchards											
Export potential fruits											
Micro irrigation systems of orchards											
Plant propagation techniques											
Others (pl specify)											
Total (b)		**04**	**78**	**02**	**80**	**0**	**0**	**0**	**78**	**02**	**80**
c) Ornamental Plants											
Nursery Management	Nursery Management of Ornamental plants	01	20	0	20	0	0	0	20	0	20
Management of potted plants											
Export potential of ornamental plants											
Propagation techniques of Ornamental Plants											
Others (pl specify)											
Total (c)		**01**	**20**	**0**	**20**	**0**	**0**	**0**	**20**	**0**	**20**
d) Plantation crops											
Production and Management technology											
Processing and value addition											

Others (pl specify)											
Total (d)											
e) Tuber crops											
Production and Management technology											
Processing and value addition											
Others (pl specify)											
Total (e)											
f) Spices											
Production and Management technology	Advance Production Techniques of Turmeric and Ginger	02	36	0	36	04	0	04	40	0	40
Processing and value addition											
Others (pl specify)											
Total (f)		**02**	**36**	**0**	**36**	**04**	**0**	**04**	**40**	**0**	**40**
g) Medicinal and Aromatic Plants											
Nursery management											
Production and management technology											
Post harvest technology and value addition											
Others (pl specify)											
Total (g)											
GT (a-g)		**10**	**178**	**05**	**183**	**17**	**0**	**17**	**198**	**02**	**200**
III Soil Health and Fertility Management											
Soil fertility management											
Integrated water management											
Integrated Nutrient Management											
Production and use of organic inputs	Production and use of organic inputs	01	18	0	18	02	0	02	20	0	20
Management of Problematic soils											
Micro nutrient deficiency in crops											
Nutrient Use Efficiency											
Balance use of fertilizers											
Soil and Water Testing	Technology of fertilizer use efficiency	01	17	0	17	03	0	03	20	0	20
Others (pl specify)	Natural Farming	03	54	0	54	06	0	06	60	0	60
Total		**05**	**89**	**0**	**89**	**11**	**0**	**11**	**100**	**0**	**100**
IV Livestock Production and Management											
Dairy Management	Care and Management of:- Dry & pregnant animals Newly born calf & heifers Animal reproductive cycle: symptoms of heat & methods of heat detection	02	37	00	37	03	00	03	40	00	40
Poultry Management											
Piggery Management											
Rabbit Management											

Animal Nutrition Management	Optimizing of animal production through better use & quality assurance of feed resources in mix farming system Importance of mineral mixture in reproduction of livestock farming	02	35	00	35	05	00	05	40	00	40
Disease Management	Importance of herbal drugs used in animal health Mastitis in milch animals, its symptom & control Vaccination schedules of livestock. Various causes of abortion in animals Common reproductive disease in cattle & buffalo.	05	89	01	90	09	01	10	98	02	100
Feed & fodder technology	Treatment technique of wheat/ paddy straw for optimization of digestibility	01	18	00	18	02	00	02	20	00	20
Production of quality animal products											
Others (pl specify)	Goat production technology for high economic return	01	14	03	17	02	01	03	16	04	20
Total		**11**	**193**	**04**	**197**	**21**	**02**	**23**	**214**	**6**	**220**
V Home Science/Women empowerment											
Household food security by kitchen gardening and nutrition gardening											
Design and development of low/minimum cost diet	Balanced diet for lactating and pregnant women	02	0	40	40	0	0	0	0	40	40
Designing and development for high nutrient efficiency diet											
Minimization of nutrient loss in processing											
Processing and cooking											
Gender mainstreaming through SHGs											
Storage loss minimization techniques											
Value addition	Preparation of aonla products	01	0	20	20	0	0	0	0	20	20
Women empowerment	Income generation activities for women empowerment	02	0	40	40	0	0	0	0	40	40
Location specific drudgery reduction technologies	Drudgery reducing farm implement	01	0	18	18	0	02	02	0	20	20
Rural Crafts											
Women and child care											
Others (pl specify)											
Total		**06**	**0**	**118**	**118**	**0**	**02**	**02**	**0**	**120**	**120**
VI Agril. Engineering											
Farm Machinary and its maintenance											
Installation and maintenance of micro irrigation systems											

Use of Plastics in farming practices											
Production of small tools and implements											
Repair and maintenance of farm machinery and implements											
Small scale processing and value addition											
Post Harvest Technology											
Others (pl specify)											
Total											
VII Plant Protection											
Integrated Pest Management	IPM in Zaid urd moong	01	18	0	18	02	0	02	20	0	20
	IPM in Kharif Pulses	01	18	01	19	01	0	01	19	01	20
	IPM in Paddy	01	20	0	20	0	0	0	20	0	20
	IPM in G.nut &Til	01	20	0	20	0	0	0	20	0	20
	Management of BPH in Paddy	01	15	01	16	04	0	04	19	01	20
	IPM in Toria & Mustard	01	20	0	20	0	0	0	20	0	20
Integrated Disease Management	IDM in Sugarcane	01	19	0	19	01	0	01	20	0	20
	Management of Sheath Blight in Paddy	01	18	0	18	02	0	02	20	0	20
	IDM in Sugarcane	01	16	04	20	0	0	0	16	04	20
Bio-control of pests and diseases	Bio-Control of Pod Borer in Chickpea	01	20	0	20	0	0	0	20	0	20
Production of bio control agents and bio pesticides											
Others (pl specify)											
Total		**10**	**184**	**06**	**190**	**10**	**0**	**10**	**194**	**06**	**200**
VIII Fisheries											
Integrated fish farming											
Carp breeding and hatchery management											
Carp fry and fingerling rearing											
Composite fish culture											
Hatchery management and culture of freshwater prawn											
Breeding and culture of ornamental fishes											
Portable plastic carp hatchery											
Pen culture of fish and prawn											
Shrimp farming											
Edible oyster farming											
Pearl culture											
Fish processing and value addition											
Others (pl specify)											
Total											
IX Production of Inputs at site											
Seed Production											
Planting material production											
Bio-agents production											
Bio-pesticides production											
Bio-fertilizer production											
Vermi-compost production	Vermi-compost production	01	18	0	18	02	0	02	20	0	20

Organic manures production	NADEP Compost production	01	19	0	19	01	0	01	20	0	20
Production of fry and fingerlings											
Production of Bee-colonies and wax sheets											
Small tools and implements											
Production of livestock feed and fodder											
Production of Fish feed											
Mushroom Production											
Apiculture											
Others (pl specify)											
Total		**02**	**37**	**0**	**37**	**03**	**0**	**03**	**40**	**0**	**40**
X Capacity Building and Group Dynamics											
Leadership development											
Group dynamics											
Formation and Management of SHGs											
Mobilization of social capital											
Entrepreneurial development of farmers/youths											
WTO and IPR issues											
Others (pl specify)											
Total											
XI Agro-forestry											
Production technologies											
Nursery management											
Integrated Farming Systems											
Others (pl specify)											
Total											
GRAND TOTAL		**51**	**803**	**133**	**936**	**80**	**04**	**84**	**886**	**134**	**1020**

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

Thematic area (May be specific to any given KVK)	**Actual Title of training conducted**	**No. of courses**	**Participants**								
			Others			**SC/ST**			**Grand Total**		
			Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
I Crop Production											
Weed Management	Weed Management of Zaid pulses	02	38	0	38	02	0	02	40	0	40
	Weed Management in wheat	01	18	0	18	02	0	02	20	0	20
	IWM in Sugarcane	01	17	0	17	03	0	03	20	0	20
Resource Conservation Technologies	Rabi Pulse Production on FIRBS	02	38	0	38	02	0	02	40	0	40
	Residue management in wheat	01	18	0	18	02	0	02	20	0	20
	Residue management in paddy	01	16	0	16	04	0	04	20	0	20
Cropping Systems											
Crop Diversification											
Integrated Farming											
Micro Irrigation/irrigation											
Seed production											
Nursery management											
Integrated Crop Management	Foliar application of soluble fertilizer in rabi oilseed and	01	17	0	17	03	0	03	20	0	20

	pulses										
	Foliar application of soluble fertilizer in crop production	01	18	0	18	02	0	02	20	0	20
Soil & water conservation	Water management in kharif pulses	01	18	0	18	02	0	02	20	0	20
	Water Management in Rabi crops	02	38	0	38	02	0	02	40	0	40
Integrated nutrient management											
Production of organic inputs											
Others (pl specify)											
Total		**15**	**274**	**0**	**274**	**26**	**0**	**26**	**300**	**0**	**300**
II Horticulture											
a) Vegetable Crops											
Production of low value and high valume crops	Advance Production Techniques of Bottle Gourd	02	34	03	37	03	0	03	37	03	40
	Production Technology of Bottle Gourd and Bitter Gourd by Scaffold Method	01	13	01	14	06	0	6	19	01	20
	Insect, Pest and Disease management of Cucurbits	01	18	0	18	02	0	2	20	0	20
Off-season vegetables	Production Technology of Off-season vegetables	02	36	0	36	04	0	04	40	0	40
Nursery raising	Nursery Management in Vegetables	01	20	0	20	0	0	0	20	0	20
Exotic vegetables											
Export potential vegetables											
Grading and standardization											
Protective cultivation	Micro Irrigation Management of vegetables	01	10	0	10	10	0	10	20	0	20
Others (pl specify)											
Total (a)											
b) Fruits											
Training and Pruning											
Layout and Management of Orchards											
Cultivation of Fruit	Production Techniques of Papaya	02	38	02	40	0	0	0	38	02	40
	Cultivation Practices of minor fruits	02	40	0	40	0	0	0	40	0	40
Management of young plants/orchards	Management of young orchards	02	32	0	32	08	0	08	40	0	40
Rejuvenation of old orchards											
Export potential fruits											
Micro irrigation systems of orchards											
Plant propagation techniques											
Others (pl specify)											
Total (b)											
c) Ornamental Plants											
Nursery Management	Nursery Management of Ornamental	01	20	0	20	0	0	0	20	0	20

	plants										
Management of potted plants											
Export potential of ornamental plants											
Propagation techniques of Ornamental Plants											
Others (pl specify)											
Total (c)											
d) Plantation crops											
Production and Management technology											
Processing and value addition											
Others (pl specify)											
Total (d)											
e) Tuber crops											
Production and Management technology											
Processing and value addition											
Others (pl specify)											
Total (e)											
f) Spices											
Production and Management technology	Advance Production Techniques of Turmeric and Ginger	02	36	0	36	04	0	04	40	0	40
Processing and value addition											
Others (pl specify)											
Total (f)											
g) Medicinal and Aromatic Plants											
Nursery management											
Production and management technology											
Post harvest technology and value addition											
Others (pl specify)											
Total (g)											
GT (a-g)		**17**	**297**	**06**	**303**	**37**	**0**	**37**	**337**	**03**	**340**
III Soil Health and Fertility Management											
Soil fertility management											
Integrated water management											
Integrated Nutrient Management	Integrated Nutrient Management	01	18	0	18	02	0	02	20	0	20
Production and use of organic inputs	Production and use of organic inputs	02	35	0	35	05	0	05	40	0	40
Management of Problematic soils											
Micro nutrient deficiency in crops											
Nutrient Use Efficiency	Nutrient Use Efficiency	01	17	0	17	03	0	03	20	0	20
Balance use of fertilizers											
Soil and Water Testing	Soil and Water Testing	01	18	0	18	02	0	02	20	0	20
Others (pl specify)	Natural Farming	05	92	0	92	08	0	08	100	0	100
Total		**10**	**176**	**0**	**176**	**14**	**0**	**14**	**200**	**0**	**200**
IV Livestock Production and Management											
Dairy Management	Calf management Care and Management of:- Dry & pregnant animals Newly born calf & heifers	03	50	00	50	10	00	10	60	00	60

	Animal reproductive cycle: symptoms of heat & methods of heat detection										
Poultry Management											
Piggery Management											
Rabbit Management											
Animal Nutrition Management	Optimizing of animal production through better use & quality assurance of feed resources in mix farming system Importance of mineral mixture in reproduction of livestock farming	02	35	00	35	05	00	05	40	00	40
Disease Management	FMD in animals, its symptom and control FMD, RP, PPR: etiology, mode of transmission, treatment, prevention & control BQ, HS, TRP: prevention & control	08	139	01	140	19	01	20	158	02	160
Feed & fodder technology	Treatment technique of wheat/ paddy straw for optimization of digestibility	01	18	00	18	02	00	02	20	00	20
Production of quality animal products											
Others (pl specify)	Goat production technology for high economic return	01	14	03	17	02	01	03	16	04	20
Total		**15**	**256**	**04**	**60**	**38**	**02**	**40**	**294**	**06**	**300**
V Home Science/Women empowerment											
Household food security by kitchen gardening and nutrition gardening	Household food security by nutrition kitchen gardening	01	0	20	20	0	0	0	0	20	20
Design and development of low/minimum cost diet	Balanced diet for pregnant and lactating women	02	0	40	40	0	0	0	0	40	40
	Balanced diet for Children lactating women	01	0	18	18	0	02	02	0	20	20
Designing and development for high nutrient efficiency diet	Importance of coarse grains in diet	01	0	18	18	0	02	02	0	20	20
	Management of high nutrient efficient diet	01	0	17	17	0	03	03	0	20	20
Minimization of nutrient loss in processing											
Processing and cooking											
Gender mainstreaming through SHGs											
Storage loss minimization techniques	Storage loss minimization techniques	02	0	38	38	0	02	02	0	40	40
Value addition	Preparation of Mango products	01	0	20	20	0	0	0	0	20	20
	Preparation of Aonla products	01	0	20	20	0	0	0	0	20	20

	Importance of soya bean in diet and its processing	01	0	20	20	0	0	0	0	20	20
Women empowerment	Income Generation Activities for women empowerment	02	0	40	40	0	0	0	0	40	40
	Small Scale cottage industries for women empowerment	02	0	38	38	0	02	02	0	40	40
Location specific drudgery reduction technologies	Drudgery reducing farm implements	01	0	18	18	0	0	0	0	20	20
Rural Crafts											
Women and child care	Importance of women health and hygiene	01	0	20	20	0	0	0	0	20	20
Others (pl specify)											
Total		**17**	**0**	**327**	**327**	**0**	**13**	**13**	**0**	**340**	**340**
VI Agril. Engineering											
Farm Machinary and its maintenance											
Installation and maintenance of micro irrigation systems											
Use of Plastics in farming practices											
Production of small tools and implements											
Repair and maintenance of farm machinery and implements											
Small scale processing and value addition											
Post Harvest Technology											
Others (pl specify)											
Total											
VII Plant Protection											
Integrated Pest Management	IPM in Groundnut and Til	01	20	0	20	0	0	0	20	0	20
	IPM in zaid urd moong	01	18	0	18	02	0	02	20	0	20
	IPM in paddy	01	20	0	20	0	0	0	20	0	20
	IPM in kharif pulses	01	18	01	19	01	0	01	19	01	20
	Management of BPH in paddy	01	15	01	16	04	0	04	19	01	20
	IPM in Toria and Mustard	01	20	0	20	0	0	0	20	0	20
	IPM in Groundnut and Til	01	18	0	18	02	0	02	20	0	20
	IPM in Zaid Pulses	01	18	0	18	02	0	02	20	0	20
Integrated Disease Management	Integrated Disease in sugarcane	02	35	04	39	01	0	01	36	04	40
	Management of sheath blight in paddy	01	18	0	18	02	0	02	20	0	20
	Management of Diseases in Toria and Mustard	01	13	0	13	06	01	07	19	01	20
Bio-control of pests and diseases	Bio-control of pod borer in	01	20	0	20	0	0	0	20	0	20

	chick pea										
Production of bio control agents and bio pesticides											
Others (pl specify)											
Total		**13**	**233**	**06**	**239**	**20**	**01**	**21**	**253**	**07**	**260**
VIII Fisheries											
Integrated fish farming											
Carp breeding and hatchery management											
Carp fry and fingerling rearing											
Composite fish culture											
Hatchery management and culture of freshwater prawn											
Breeding and culture of ornamental fishes											
Portable plastic carp hatchery											
Pen culture of fish and prawn											
Shrimp farming											
Edible oyster farming											
Pearl culture											
Fish processing and value addition											
Others (pl specify)											
Total											
IX Production of Inputs at site											
Seed Production											
Planting material production											
Bio-agents production											
Bio-pesticides production											
Bio-fertilizer production											
Vermi-compost production	Vermi-compost production	01	18	0	18	02	0	02	20	0	20
Organic manures production	NADEP Production	01	19	0	19	01	0	01	20	0	20
Production of fry and fingerlings											
Production of Bee-colonies and wax sheets											
Small tools and implements											
Production of livestock feed and fodder											
Production of Fish feed											
Mushroom Production											
Apiculture											
Others (pl specify)											
Total		**02**	**27**	**0**	**27**	**03**	**0**	**03**	**40**	**0**	**40**
X Capacity Building and Group Dynamics											
Leadership development											
Group dynamics											
Formation and Management of SHGs											
Mobilization of social capital											
Entrepreneurial development of farmers/youths											
WTO and IPR issues											
Others (pl specify)											
Total											
XI Agro-forestry											
Production technologies											
Nursery management											
Integrated Farming Systems											
Others (pl specify)											
Total											
GRAND TOTAL		**92**	**1328**	**343**	**1671**	**153**	**16**	**169**	**1484**	**356**	**1840**

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

Thematic area (May be specific to any given KVK)	Actual Title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	Nursery Management in vegetable crops	03	26	0	26	04	0	04	30	0	30
Training and pruning of orchards											
Protected cultivation of vegetable crops											
Commercial fruit production											
Integrated farming											
Seed production											
Production of organic inputs											
Planting material production											
Vermi-culture											
Mushroom Production	Oyster Mushroom Cultivation Technology	03	23	02	25	04	01	05	27	03	30
Bee-keeping											
Sericulture											
Repair and maintenance of farm machinery and implements											
Value addition	Fruit & Vegetables Preservation	02	0	20	20	0	0	0	0	20	20
Small scale processing											
Post Harvest Technology											
Tailoring and Stitching	Tailoring	02	0	20	20	0	0	0	0	20	20
Rural Crafts	Tie& Dye Techniques	01	0	10	10	0	0	0	0	10	10
	Hand Embroidery stitches	01	0	09	09	0	01	01	0	10	10
	Soft Toy Making	01	0	22	22	0	06	06	0	28	28
Production of quality animal products											
Dairying	Dairy farming	01	09	00	09	01	00	01	10	00	10
Sheep and goat rearing	Goat farming Organized goat farming & management	02	15	00	15	05	00	05	20	00	20
Quality farming											
Piggery											
Rabbit farming											
Poultry production	Poultry farming	01	09	00	09	01	00	01	10	00	10
Ornamental fisheries											
Composite fish culture											
Freshwater prawn culture											
Shrimp farming											
Pearl culture											
Cold water fisheries											
Fish harvest and processing technology											
Fry and fingerling rearing											
Any other (pl.specify)											
TOTAL		**17**	**82**	**83**	**165**	**15**	**08**	**23**	**97**	**91**	**188**

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

Thematic area (May be specific to any given KVK)	Actual Title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops											
Training and pruning of orchards											
Protected cultivation of vegetable crops											
Commercial fruit production											
Integrated farming											
Seed production											
Production of organic inputs											
Planting material production											
Vermi-culture											
Mushroom Production											
Bee-keeping											
Sericulture											
Repair and maintenance of farm machinery and implements											
Value addition											
Small scale processing											
Post Harvest Technology											
Tailoring and Stitching											
Rural Crafts											
Production of quality animal products											
Dairying											
Sheep and goat rearing											
Quail farming											
Piggery											
Rabbit farming											
Poultry production											
Ornamental fisheries											
Composite fish culture											
Freshwater prawn culture											
Shrimp farming											
Pearl culture											
Cold water fisheries											
Fish harvest and processing technology											
Fry and fingerling rearing											
Any other (pl.specify)											
TOTAL											

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

Thematic area (May be specific to any given KVK)	Actual Title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	Nursery Management in vegetable crops	03	26	0	26	04	0	04	30	0	30
Training and pruning of orchards											
Protected cultivation of vegetable crops											
Commercial fruit production											
Integrated farming											
Seed production											
Production of organic inputs											
Planting material production											
Vermi-culture											

Mushroom Production	Oyster Mushroom Cultivation Technology	03	23	02	25	04	01	05	27	03	30
Bee-keeping											
Sericulture											
Repair and maintenance of farm machinery and implements											
Value addition	Fruit & Vegetables Preservation	02	0	20	20	0	0	0	0	20	20
Small scale processing											
Post Harvest Technology											
Tailoring and Stitching	Tailoring	02	0	20	20	0	0	0	0	20	20
Rural Crafts	Tie& Dye Techniques	01	0	10	10	0	0	0	0	10	10
	Hand Embroidery stitches	01	0	09	09	0	01	01	0	10	10
	Soft Toy Making	01	0	22	22	0	06	06	0	28	28
Production of quality animal products											
Dairying	Dairy farming	01	09	00	09	01	00	01	10	00	10
Sheep and goat rearing	Goat farming Organized goat farming & management	02	15	00	15	05	00	05	20	00	20
Quality farming											
Piggery											
Rabbit farming											
Poultry production	Poultry farming	01	09	00	09	01	00	01	10	00	10
Ornamental fisheries											
Composite fish culture											
Freshwater prawn culture											
Shrimp farming											
Pearl culture											
Cold water fisheries											
Fish harvest and processing technology											
Fry and fingerling rearing											
Any other (pl.specify)											
TOTAL		**17**	**82**	**83**	**165**	**15**	**08**	**23**	**97**	**91**	**188**

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

Thematic area (May be specific to any given KVK)	Actual Title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops											
Integrated Pest Management	IPM in Paddy	01	27	0	27	03	0	03	30	0	30
	IPM in Rabi oilseed & pulses	01	28	0	28	02	0	02	30	0	30
Integrated Nutrient management											
Rejuvenation of old orchards											
Protected cultivation technology	Protected cultivation techniques of vegetables	02	50	0	50	10	0	10	60	0	60
Production and use of organic inputs											
Care and maintenance of farm machinery and implements											

Gender mainstreaming through SHGs											
Formation and Management of SHGs											
Women and Child care											
Low cost and nutrient efficient diet designing											
Group Dynamics and farmers organization											
Information networking among farmers											
Capacity building for ICT application											
Management in farm animals											
Livestock feed and fodder production											
Household food security											
Any other (pl.specify)											
TOTAL		**04**	**105**	**0**	**105**	**15**	**0**	**15**	**120**	**0**	**120**

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

Thematic area (May be specific to any given KVK)	Actual Title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	Production Technology wheat	02	45	0	45	15	0	15	60	0	60
Integrated Pest Management											
Integrated Nutrient management											
Rejuvenation of old orchards											
Protected cultivation technology											
Production and use of organic inputs	Vermi NADEP Production	04	96	0	96	24	0	24	120	0	120
Care and maintenance of farm machinery and implements											
Gender mainstreaming through SHGs											
Formation and Management of SHGs											
Women and Child care	Deficiency diseases in children	01	0	26	26	0	04	04	0	30	30
Low cost and nutrient efficient diet designing	Importance of coarse grains in diet	01	0	25	25	0	05	05	0	30	30
Group Dynamics and farmers organization											
Information networking among farmers											
Capacity building for ICT application											
Management in farm animals											
Livestock feed and fodder production											
Household food security	House hold food security nutrition kitchen gardening	02	0	50	50	0	10	10	0	60	60
Any other (pl.specify)											
TOTAL		**10**	**141**	**101**	**242**	**39**	**19**	**58**	**180**	**120**	**300**

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

Thematic area (May be specific to any given KVK)	Actual Title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	Production Technology wheat	02	45	0	45	15	0	15	60	0	60
Integrated Pest Management	IPM in Paddy	01	27	0	27	03	0	03	30	0	30
	IPM in Rabi oilseed & pulses	01	28	0	28	02	0	02	30	0	30
Rejuvenation of old orchards											
Protected cultivation technology	Protected cultivation techniques of vegetables	02	50	0	50	10	0	10	60	0	60
Production and use of organic inputs	Vermi NADEP Production	04	96	0	96	24	0	24	120	0	120
Care and maintenance of farm machinery and implements											

Gender mainstreaming through SHGs											
Formation and Management of SHGs											
Women and Child care	Deficiency diseases in children	01	0	26	26	0	04	04	0	30	30
Low cost and nutrient efficient diet designing	Importance of coarse grains in diet	01	0	25	25	0	05	05	0	30	30
Group Dynamics and farmers organization											
Information networking among farmers											
Capacity building for ICT application											
Management in farm animals											
Livestock feed and fodder production											
Household food security	House hold food security nutrition kitchen gardening	02	0	50	50	0	10	10	0	60	60
Any other (pl.specify)											
TOTAL		**14**	**246**	**101**	**347**	**54**	**19**	**73**	**300**	**120**	**420**

Table. Sponsored training programmes

Thematic area (May be specific to any given KVK)	**Actual Title of training conducted**	**No. of Courses**	**No. of Participants**								
			General			**SC/ST**			**Grand Total**		
			Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Crop production and management	**FTT**	**03**	**140**	**0**	**140**	**10**	**0**	**10**	**150**	**0**	**150**
Increasing production and productivity of crops											
Commercial production of vegetables											
Production and value addition											
Fruit Plants											
Ornamental plants											
Spices crops											
Soil health and fertility management											
Production of Inputs at site											
Methods of protective cultivation											
Others (pl. specify)											
Total											
Post harvest technology and value addition											
Processing and value addition											
Others (pl. specify)											
Total											
Farm machinery											
Farm machinery, tools and implements											
Others (pl. specify)											
Total											
Livestock and fisheries											
Livestock production and management											
Animal Nutrition Management											
Animal Disease Management											
Fisheries Nutrition											
Fisheries Management											
Others (pl. specify)											
Total											

Home Science											
Household nutritional security											
Economic empowerment of women											
Drudgery reduction of women											
Others (pl. specify)											
Total											
Agricultural Extension											
Capacity Building and Group Dynamics											
Others (pl. specify)											
Total											
GRAND TOTAL											

Name of sponsoring agencies involved

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

Thematic area (May be specific to any given KVK)	**Actual Title of training conducted**	**No. of Courses**	**No. of Participants**								
			General			**SC/ST**			**Grand Total**		
			Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Crop production and management											
Commercial floriculture											
Commercial fruit production											
Commercial vegetable production											
Integrated crop management											
Organic farming											
Others (pl. specify)											
Total											
Post harvest technology and value addition											
Value addition											
Others (pl. specify)											
Total											
Livestock and fisheries											
Dairy farming											
Composite fish culture											
Sheep and goat rearing											
Piggery											
Poultry farming											
Others (pl. specify)											
Total											
Income generation activities											
Vermicomposting											
Production of bio-agents, bio-pesticides,											
bio-fertilizers etc.											
Repair and maintenance of farm machinery											
and implements											
Rural Crafts											
Seed production											
Sericulture											
Mushroom cultivation											
Nursery, grafting etc.											
Tailoring, stitching, embroidery, dying etc.											
Agril. para-workers, para-vet training											
Others (pl. specify)											
Total											
Agricultural Extension											
Capacity building and group dynamics											
Others (pl. specify)											
Total											
Grand Total											

VII. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	92	967	45	1012
Diagnostic visits	78	320	80	400
Field Day	12	360	42	402
Group discussions	05	150	12	62
Kisan Ghosthi	28	2410	84	2494
Film Show	-	-	-	-
Self -help groups	22	510	38	548
Kisan Mela	05	2370	162	2532
Exhibition	03	640	52	692
Scientists' visit to farmers field	432	970	89	1059
Plant/animal health camps	-	-	-	-
Farm Science Club	-	-	-	-
Ex-trainees Sammelan	-	-	-	-
Farmers' seminar/workshop	05	210	13	223
Method Demonstrations	-	-	-	-
Celebration of important days	13	1415	37	1452
Special day celebration	03	310	08	318
Exposure visits	03	110	08	118
Others (pl. specify)	02	328	10	338
Total	**703**	**11070**	**680**	**11750**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	-
Extension Literature	16
News paper coverage	156
Popular articles	38
Radio Talks	08
TV Talks	05
Animal health amps (Number of animals treated)	-
Others (pl. specify)	02
Total	**225**

Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	Total
KVK ,Shahjahanpur	Text only	145	74	5696				5915
	Voice only							
	Voice & Text both	145	74	5696				5915
	Total Messages	**145**	**74**	**5696**				**5915**
	Total farmers Benefitted	**145**	**258**	**5696**				**5915**

VIII. 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	10	310	Crop/Livestock
	Lectures organised			
	Exhibition			
	Film show			
	Fair			
	Farm Visit	12	38	
	Diagnostic Practicals			
	Distribution of Literature (No.)	330	-	Millets and CRM
	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		348	

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

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
Cereals	Wheat	DBW-222		125.22	6.0 lac	
	Paddy	PB-1509		25.80	(approx.)	
	Wheat	DBW-187		120.00		
Oilseeds						
Pulses						
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others						
Total						

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						
	Bottle Gourd	Kashi Ganga		3160	9480	46
	Bitter Gourd	Kashi Pratishtha				
	Pumpkin	Kashi Harit				
	Cucumber	Kashi Nutan				
	Tomato	Pusa Hybrid-8	F1	5500	-	14
		Arka Vishal	F1	5000	-	11
	Brinjal	Kashi Sandesh	F1	6200	-	17
		Pusa Hybrid-6	F1	5400	-	10
	Chilli	ArkaMeghana	F1	5200	-	15
		Kashi Anmol	F1	5400	-	11
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
Total				**35860**	**9480**	**124**

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others-Vermi Compost		1500	-	-
NADEP Compost		6200	-	-
Total		**7700**		

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	RIR	10	1000	13
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		10	1000	13

X. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	210	135	25	
Water				
Plant				
Manure				
Others (pl.specify)				
Total	**210**	**135**	**25**	

XI. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted	Date of SAC
KVK, Shahjahanpur	01	10.11.2022

XII. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution
Patel Krishi Gayneshwari	1000
Natural Farming	500
Scientific cultivation of millate crops	500

XIII. PUBLICATIONS

Category	Number
Books	-
Technical bulletins	01
Research Paper	01
Lead Papers	-
Book Chapters	02
Popular Articles	32
Newsletters	-
Technical reports	04
Others (pl. specify) folder	16
Bio Decomposer	01
Cow Based Natural farming	01
CRM se improved machinery	06
Gramin Krishi Mausam Sewa	01

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

Activities conducted				
No. of Training programmes	**No. of Demonstration s**	**No. of plant materials produced**	**Visit by farmers (No.)**	**Visit by officials (No.)**

XV. 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
	19	340
Total	19	340

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
Total												

XVI. 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				

B. HRD activities organized in identified areas for KVK staff by ATARI

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)

KVK Case Study

1. Title: <u>Boosting family income by hybrid brinjal cultivation with FIRBS method.</u>

Introduction

In district Shahjahanpur vegetable growers grow brinjal with traditional method of cultivation and use local variety of seed. Inspite of investing much money, they are not able to get proper yield. Mohd. Safi S/o Mohd. Rahmat Ali of village Shahbajnagar Block Bhawalkhera, District Shahjahanpur is a small vegetable grower, cultivating vegetables with local variety of seed and following traditional method of cultivation. He has about 3.0 acre cultivated land. He was struggling to fulfill the needs of his family.

KVK Intervention

One day he came to KVK and discussed with KVK scientists and desired to get training on advanced vegetable production, so that he can earn more and raise his social status. KVK scientist gave him training and also demonstrated advanced technology of brinjal cultivation by FIRBS method at his field.

Output

Before joining the KVK he was getting 104.0 q/Acre yield of brinjal and a net profit of Rs. 45600.00/Acre.

Outcome

KVK scientist advised him to adopt FIRBS method of cultivation with hybrid variety Pusa Hybrid-6. Now he is growing brinjal with latest package of practices, using hybrid seed, INM with micronutrient and IPM to save his crop. Now he is getting 170.3 q/Acre yield and a net profit of Rs. 80,580.00. He is getting a bonus of Rs. 34,980.00 by adopting new technology.

Impact

Mohd. Safi takes valuable advised of KVK scientist and visit KVK frequently. The vegetable growers of his village and nearby villages are very much motivated by his farming and adopting the technology at their field also. The adoption percent of the technology is 35% in Bhawalkhera block.

Success Story

2. **Title: Doubling farmer's income by hybrid muskmelon cultivation with drip, silver mulching and FIRBS method.**

Introduction

In district Shahjahanpur vegetable growers grow muskmelon with traditional method by using local variety of seed and in very limited area. Inspite of investing much money, they are not able to get proper yield. Rajvinder Singh of village Shahbajnagar Block Dadraul, District Shahjahanpur is a small vegetable grower, cultivating vegetables with local variety of seed and following traditional method of cultivation. He has about 15.0 acre cultivated land. He was struggling to fulfill the needs of his family.

KVK Intervention

One day he came to KVK and discussed with KVK scientists and desired to get training on advanced vegetable production, so that he can earn more and raise his social status. KVK scientist gave him training and also demonstrated advanced technology of muskmelon cultivation with drip, silver mulching and FIRBS method in his field.

Output

Before joining the KVK he was getting 97.0 q/Acre yield of muskmelon and a net profit of Rs. 52000.00/Acre.

Outcome

KVK scientist advised him to adopt drip with silver mulching and FIRBS method of cultivation with hybrid varieties of bobby and muskan. Now he is growing muskmelon with latest package of practices, using hybrid seed, INM with micronutrient and IPM to save his crop.

Cultivating muskmelon variety Bobby and Muskan on 07 acre of land and produced 1050q of muskmelon. He has sale out @ Rs.1500/q. The gross income was 1575000.00. The cost of cultivation was 560000.00 thus the net profit was Rs. 1015000.00. B:C Ratio 1:2.81.

Impact

Rajvinder Singh takes valuable advised of KVK scientist and visit KVK frequently. The vegetable growers of his village and nearby villages are very much motivated by his farming and adopting the technology at their field also. The adoption percent of the technology is 25% in Dadraul block.

Scientific Broiler Farming:

Situation analysis/ Problem statements:- Mr. Shivam Kumar S/o Dharmender Singh, village- Madhwamai, Post- Ghusgaw , Block- Dadrol, District- Shahjahanpur, a farmer who was selected for this demonstration. He was earlier involved in poultry farming but specially in laying birds for egg production. He had reared local breed Rhode Island Red. But due to disease outbreak most of the birds were died that lead to heavy economic losses.

Plan, Impliment and Support: - KVK Shahjahanpur tries to make him aware regarding the scientific broiler poultry farming. That starts from cleaning and hygienic conditions of the poultry house. KVK scientist has encouraged the farmer for scientific feeding, vaccination of birds, antibiotic feeding in feed or water which necessary to check the incidence of outbreak of diseases. Use various feed equipments for feeding and watering to the poultry birds and other implements required for cleaning and handling purpose. Weighing balance should be kept in poultry house to weigh the birds to know the growth rate and body weight gain of the birds.

Output:- The poultry outputs are all the products and byproducts that your poultry farm produces and you sell as a product. This includes chicks, manure (fertilizer), feathers (manufacture), spent hens (alternative meat source), and gunny bags (recycling to the construction industry).

Keep a constant eye on the prevailing market prices and consumer expectations.

Outcome: - Outcomes are an animal-based method of assessing factors that contribute to an animal's quality of welfare. Regularly scoring appropriate outcome measures can identify welfare problems and be used to set targets or benchmark for improvements through an active programme. Selection of the main measures recommended.

- Assess the walking ability of the flock: Poor walking ability indicates potential pain and behavioural restriction. Causes are multifactorial, but primary risk factors are high growth rate (breed) and poor environmental control.
- Record the number of birds dead or culled on farm and the major causes: Mortality is largely due to poor walking ability, metabolic disorders (e.g. ascities, cardiovascular distress), small birds or disease, and indicates pain, suffering and suboptimal performance.
- Record incidence and severity of foot pad dermatitis and hock burn of the flock: Wet litter, genetic susceptibility and micro-nutrient deficiencies are primary causes of foot pad dermatitis, which can be painful, lead to bacterial infection and affect walking ability. Fast growth rate strains are more susceptible to hock burn due to increased inactivity and contact with the litter
- Assess the level of dirt coverage on the feathers of individuals in the flock: Feather cleanliness is a positive indicator of environmental conditions in the house and indicates that birds are not spending excessive periods resting due to inactivity.
- Record incidence and severity of breast blisters: Breast blisters / skin irritation are caused by prolonged contact with wet and dirty litter; other factors including health, diet, and perch material also play a role. Since breast blisters can be more common in slower growing strains with a sharp keel, they should be closely monitored and managed through good husbandry and adequate environmental provisions.

- Behavioural signals (see below), movement patterns, flock distribution and space usage: : Broilers can spend more than 80% of their time lying inactive by 39 days, largely caused by physiological restrictions associated with fast growth and a non-stimulating environment. Low activity is associated with poor walking ability and indicates a lack of behavioural expression. Automated monitoring of optic flow movement and distribution provides an early warning system for flocks with higher mortality, hockburn and poorer gait, and issues with feeders, drinkers, heating and ventilation.

Impact: - Mr. Shivam Kumar is becoming one of the progressive farmers for other with regards to popularization of broiler poultry farming. This farming helps him to increase his livelihood, empowerment and make him enthusiastic regards broiler production. He becomes a progressive farmer after joining the trainings that are conducted at KVK regarding organized poultry farming and as a part of KVK activities & improves their effectiveness and management technologies and set an example to other farmers of the districts of Shahjahanpur.

A farmer with KVK Scientist: Broiler Poultry Farming

XIX Achievement of Special programmes

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

S. No.	SubSector*	QP Name *	Duration (hrs)	No. of Courses Organized	No. of Participants						
					SCs/STs		Others		Total		TOTAL
					Male	Female	Male	Female	Male	Female	
1	Agriculture Crop Production	Jute and Mesta Cultivator	200								
2	Agriculture Crop Production	Vineyard Grower	200								
3	Agriculture Crop Production	Vineyard Worker	200								
4	Agriculture Crop Production	Makhana Grower cum Processor	200								
5	Agriculture Crop Production	Temperate Fruit Grower (Options: Apple / Pear, Peach and Plum / Kiwi)	200								
6	Agriculture Crop Production	Orchard Worker (Options: Trainer-Pruner / Machine Operator – Landscape)	200								
7	Agriculture Crop Production	Vegetable Grower	200								
8	Agriculture Crop Production	Spice Crop Cultivator (Electives: Herbal Spices/Seed Spices/Tree Spices/Rhizomatous Spices/Oil Yielding Spices/Pod (Cardamom) Spices)	200								
9	Agriculture Crop Production	Nursery Worker	200								
10	Agriculture Crop Production	Essential Oil Extractor	200								
11	Agriculture Crop Production	Power Tiller Operator	200								
12	Agriculture Crop Production	Farm Worker	200								
13	Animal Husbandry	Goat Farmer	200								
14	Animal Husbandry	Piggery Farmer (Electives: Fattening/ Breeding)	200								
15	Fisheries	Coldwater Aquaculture Farmer	200								
16	Fisheries	Seaweed Cultivator	200								
17	Forestry, Environment and Renewable Energy Management	Timber Grower	200								
18	Forestry, Environment and	Lac Cultivator	200								

	Renewable Energy Management										
19	Agriculture Industries	Ripening Chamber Operator	200								
20	Agriculture Industries	Group Farming Practitioner	200								
21	Agriculture Industries	Agri Commodity Fumigation Operator	200								
22	Agriculture Industries	Plant Tissue Culture Technician	200								
23	Agriculture Crop Production	Flower Handler-Packaging & Palletising	212								
24	Agriculture Crop Production	Tropical/Subtropical Fruit Grower	220								
25	Agriculture Crop Production	Florist	220								
26	Agriculture Crop Production	Service and Maintenance Technician-Farm Machinery	220								
27	Fisheries	Cage Culture Fish Farmer	230								
28	Agriculture Crop Production	Pesticide & Fertilizer Applicator	232								
29	Agriculture Crop Production	Operator-Reaper, Thresher and Crop Residue Machinery	236								
30	Animal Husbandry	Stud Farm Worker	240								
31	Animal Husbandry	Companion Animal Groomer	244								
		TOTAL									

2) Achievements under Crop Residue Management (CRM) Project by KVKs

a) CRM Machinery status of the CRM KVKs

Name of machine	Name of machine procured	No. of demo conducted	Area covered (ha)	No. of farmers covered	Result					
					Demo yield (q/ha)	Check yield (q/ha)	Increase in yield %	Cost of cultivation (Rs/ha)	Net return (demo plot)	B:C ratio
Happy Seeder	**04**	**18**	**18.0**	**18**	**55.60**	**52.25**	**6.03**	**45882**	**70872**	**2.56**
Reversible M.B. Plough	**05**									
Paddy Straw Chopper/ Shradder / Mulcher	**08**	**11**	**11.0**	**11**	**43.68**	**40.54**	**6.96**	**42977**	**53193**	**224**
Zero Till Drill	**04**									
Rotavator	**01**									
Tractor	**01**									
Superseeder	**-**	**71**	**71.0**	**71.0**						
Total	**23**	**100**	**100.0**	**100**	**51.68**	**49.18**	**4.84**	**46898**	**64919**	**2.40**

S.No	Name of the Machine/ Equipment	No. of machines procured
1	Happy Seeder	04
2	Reversible M.B. Plough	05
3	Paddy Straw Chopper/ Shradder / Mulcher	08
4	Zero Till Drill	04
5	Rotavator	01
6	Tractor	01

	Total	**23**

b) IEC activities organized under CRM Project by KVKs

S. No.	Name of IEC activity	No. of activities	No. of Participants
	Kisan Melas organized	02	765
1.	Awareness programmes conducted at Village Panchayat/ Block/ District Level	08	1000
2.	Mobilization of schools and colleges through essay completion, painting, debate etc.	04	700
3.	Demonstration conducted (ha)	150	150
4.	Training Programmes conducted	04	100
5.	Exposure visits organized	03	150
6.	Field /harvest days organized	**02**	160
	Total	**173**	**3025**

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.	85
3.	Hoarding fixed (at Mandi/ Road side/Market/ Schools/ Petrol pump/ Panchayat etc.)	20
4.	Poster/Banner placed	20
5.	Publicity material - leaflets/ pamphlets etc. distributed	6500
6.	TV programmes/ panel discussions Doordarshan/ DD-Kisan and other private channels	0
7.	Wall writing	40
	Total	**6715**

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.	Component Name	No. of Components established	Area (ha)	Number of Activities		No. of farmers benefited	
				Demo	Training	Demo	Training
1	Mushroom	01	-	-	03	-	30
2	Poultry	01	-	-	01	-	10
3	Vermicompost	01	-	-	03	-	30

7) Activities performed under NARI programme

Table-7.1: 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
5	5	1	2	1	10	4	80	02	150

Table-7.2: 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			
Millet	Finger millet			
	Pearlmillet			

	Lentil	L-4717	0.8	02
	Sorghum			
Oilseed	Groundnut			
	Mustard			
Pulses	Lentil			
	Lathyras			
Vegetable	Cauliflower			
Tuber	Sweet Potato			
Total				

8) 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 (Rs.)	No. of Soil Health Cards issued
Soil	210	135	25	NIL	86
Water					
Plant					
Manure					
Total	**210**	**135**	**25**		**86**

9) 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

10) Achievements under ARYA Project

Name of entrepreneurial units	No. of entrepreneurial units established	No. of Training programs organized	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						

11) Achievements under Pulses Seed Hub programme

Season/Crop	Name of Pulse crop	Variety	Production			Category of seed	Distributed to No. of farmers
			Target (q)	Area sown (ha)	Actual Production (q)	(F/S, C/S)	
Kharif	Black gram						
	Green Gram						
	Pigeon pea						
Total (Kharif)							

Rabi	Chick pea						
	Field pea						
	Lentil						
Total (Rabi)							
Summer	Black gram						
Total (Summer)							
Grand Total							

12) Achievements under Swachhata Abhiyan Mission

S.No.	Items	No. of Programmes	No. of persons paticipated
1	Toilet maintenance	-	-
2	Road, drain cleaning	6	73
3	Garbage disposal	-	-
4	Door to door awareness	102	180
5	Awareness campaign	20	175
6	Nookkad Drama	-	-
7	School Drama	-	-
8	School rally	3	345
9	Writing paining slogans	6	210
10	Composting	-	-
11	Other	-	-

13) 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	

14) Awards

S.No.	Name of Award received	Name of KVK/farmer	Year of Award	Date on which award received
1	Progressive farmers award	Sri Kausal Kumar Mishra	2022	10.10.2022
2	Best Mobilizer Award 2023	Dr Narendra Prasad	2023	22.02.2023

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