PROGRESS REPORT

(JANUARY 2021 – DECEMBER 2021)

KRISHI VIGYAN KENDRA
PILIBHIT

DIRECTORATE OF EXTENSION
SARDAR VALLABHBHAI PATEL UNIVERSITY OF AGRI. & TECH.
MODIPURAM, MEERUT – 250110 (U.P.)

CONTENTS

ANNUAL REPORT (January-2021-December-2021)

APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	60	689	511	1200
Rural youths	07	44	26	70
Extension functionaries	21	358	62	420
Sponsored Training	89	5934	733	6667
Vocational Training	07	44	26	70
Total	184	7069	1358	8427

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	50	20.0	
Pulses			
Cereals	52	60.0	
Vegetables			
Other crops	10	4.0	
Hybrid crops			
Total	112	84.0	
Livestock & Fisheries			
Other enterprises	07	0.5	
Total	07	0.5	
Grand Total	119	84.5	

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	10	5	25
Livestock			
Various enterprises			
Total	10	5	25
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	10	5	25

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	1477	10552
Other extension activities	124	
Total	1601	10552

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Awar e-ness	Other enterpri se	Total
Pilibhit	Text only	21	2	8	1	11	2	55
	Voice only							
	Voice & Text both							
	Total Messages	**21**	**2**	**8**	**1**	**11**	**2**	**55**
	Total farmers Benefitted	**2445**	**234**	**342**	**123**	**1231**	**231**	**4606**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	738.00	
Planting material (No.)	6000	
Bio-Products (kg)	50	
Livestock Production (No.)		
Fishery production (No.)		

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	200	
Water		
Plant		
Total	**200**	

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	02
2	Conferences	02
3	Meetings	06
4	Trainings for KVK officials	01
5	Visits of KVK officials	01
6	Book published	
7	Training Manual	

8	Book chapters	02
9	Research papers	02
10	Lead papers	01
11	Seminar papers	02
12	Extension folder	03
13	Proceedings	06
14	Award & recognition	
15	On going research projects	

DETAIL REPORT OF APR-2021

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	Fax	
KRISHI VIGYAN KENDRA, TANDA VIJAISI, NYORIA, PILIBHIT – 262 305 (U.P.) INDIA.		---	kvkpilibhit@gmail.com

1.**2 .Name and address of host organization with phone, fax and e-mail**

Address	Telephone		E mail
	Office	Fax	
SARDAR VALLABHBHAI PATEL UNIVERSITY , OF AGRICULTURE & TECHNOLOGY, MEERUT – 250110 (U.P.) INDIA.	(0121) 2411505	(0121) 2411503	svbpuniversitymeerut.ac.in

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

Address	Telephone		E mail
	Office	Resi	
Dr. Reena C. Sethi		9412853202	kvkpilibhit@gmail.com

1.4. Year of sanction: 2000

1.5. Staff Position (as on 31st December, 2021**)**

Sl. No.	Sanctioned post	Name of the incumbent	Design-ation	Subject	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Per man-ent /Tem p-orary	Cate gory (SC/ ST/ OBC/ Other s)	Mobile no.	Age	Email id
1	Programme Coordinator											
2	Subject Matter Specialist	Dr. Reena C. Sethi	Professor	Home Science	37400-67000	199620.00	19.08.95 01.06.13	P	General	9412853202	57	rcsethi1964@rediffmail.com
3	Subject Matter Specialist	Dr. Shailendra Singh Dhaka	Associate Professor	Entomology	37400-67000	147900.00	10.12.03 21.08.11	P	OBC	9412114409	44	chssdhaka@gmail.com
4	Subject Matter Specialist											
5	Subject Matter Specialist											
6	Subject Matter Specialist											
7	Subject Matter Specialist											
8	Programme Assistant	Km. Akanksha Chauhan	Lab Technician	--	9300-34800	41100.00	10.04.16 10.04.16	P	OBC	9758893880	29	aku12akansha1@gmail.com
9	Computer Programmer	Sh. Praveen Kumar Bhaskar	Programme Assistant	--	9300-34800	53600.00	27.02.08 27.02.08	P	SC	7351773929	41	praveenkumar23@gmail.com
10	Farm Manager	Dr. Mukesh Kumar	Programme Assistant	--	9300-34800	53600.00	24.07.08 24.07.08	P	General	9415587611	48	dr.mk.kr@gmail.com
11	Accountant / Superintendent	Sh. N. S. Rathore	Office Supdtt./ Accountant	---	9300-34800	55200.00	01.12.95 30.07.14	P	General	8765649746	51	rathore_ns@gmail.com
12	Stenographer	Sh. Maheshanand Dimri	Jr.steno/ Computer Operator	---	9300-34800	52000.00	15.12.08 15.09.21	P	SC	9457273887	48	anandsk121@gmail.com
13	Driver	Sh. Satendra Singh	Driver cum Mechanic	---	5200-20200	32300.00	30.07.07 30.07.07	P	General	9456959660	38	
14	Driver											
15	Supporting staff											
16	Supporting staff	Sh. Mool Kumar	Office Attendant	---	5200-20200	36400.00	28.12.95 16.02.02	P	General	9458083795	46	

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1.	Under Buildings	2.00
2.	Under Demonstration Units	--
3.	Under Crops	8.85
4.	Orchard/Agro-forestry	1.15
Total Land		**12.00**

1.7. Infrastructural Development:

A) Buildings

Sl No	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (lac Rs)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2006	500	32.00	---	---	---
2	Farmers Hostel	ICAR	2007	300	7.92	---	---	---
3	Staff Quarters (6)	ICAR	2007	400	7.72	---	---	---
4	Demonstration Units (2)	ICAR	2007	160		---	---	---
5	Fencing	ICAR	2009	1000RM	4.72	---	---	---
6	Tube Well	ICAR	June07		2.25	---	---	---
7	Threshing floor	ICAR	June07	300	2.15	---	---	---
8	Farm godown	ICAR	June07	60	3.50	---	---	---
9	Irrigation Channel	ICAR	2007	800	4.00	---	---	---

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
1 Splendor Motorcycle	03/06/05	40,256.00	38000	Not Good
1 Jeep (Marshal)	30/06/04	4,00,364.00	172345	Not Good
1 Sonalika Tractor	21/12/04	3,34,350.00		Good
1 Rajdoot Motorcycle	13/07/00	Transferred		Not Good

C) Equipments & AV aids

Name of the equipment		Year of purchase	Cost (Rs.)	Present status
Diesel Pump	10 HP Kirloskar	03.01.2001	22481.00	Good
Steel Almirah	37x19x78 with Machine Lock	22.03.2002	2856.00	Good
Steel Almirah	1980x860x480	13.10.2004	6555.00	Good
Steel Almirah	1980x860x480	31.03.2006	3410.00	Good

	1980x860x480	31.03.2006	3410.00	Good
	1280x760x430	31.03.2006	4700.00	Good
Drum		14.12.2000	470.00	Good
Harrow	7x7 disc Bearing beam trailing type	31.01.2005	20300.00	Good
Cultivator 1	Tyne spring loaded	31.01.2005	10900.00	Good
Leveller	7' Size	31.01.2005	5200.00	Good
Board	6x4	21.11.2002	1980.00	Good
Board	10x3	19.03.2004	885.00	Good
Pin-up-board	3x4	31.03.2004	11000.00	Good
Stand	Delux	31.03.2004	10400.00	Good
Tractor Trolly	3 ton 2 wheel	31.01.2005	56100.00	Not working
Ridger Maker	Disc Type	31.01.2005	7000.00	Good
Motorcycle	Rajdoot	13.07.2000	Transferred	Not working
Motorcycle	Hero Honda	03.06.2005	40256.00	Not working
Chair	Wooden+foam	19.03.2001	6750.00	Good
Office Chair	Cushioned	06.03.2003	1700.00	Good
Chair	Armed Wooden	20.03.2004	4947.00	Good
Office Chair	Dunlop Cushion	20.03.2004	5400.00	Good
Office Chair	Armed	30.03.2004	550.00	Good
Chair	Wooden	30.12.2004	3282.00	Good
Office Chair	Armed seat Back	31.03.2006	27830.00	Good
Computer Chair	Armless	31.03.2006	1510.00	Good
Officer Chair		6.03.2003	1700.00	Good
Bench	Armed	31.03.2006	2600.00	Good
Stool	Lab 460x350x650mm	31.03.2006	1250.00	Good
Pump	Diesel Machine	22.06.2002	300.00	Good
Zero Till Fertiseed Drill		8.12.2001	Transferred	Good
Seed cum Ferti Drill wheel drive	11 tyne double box center	31.01.2005	18040.00	Good
Table	4x25x2.5	19.03.2001	3980.00	Good
Officer Table	1520x900x760mm	5.03.2003	5050.00	Good
Office Table		20.03.2004	22162.00	Good
Office Table	910x650x760mm	31.03.2006	4000.00	Good
Computer Table	1500x650x760mm	31.03.2006	5750.00	Good
Wooden Takht	1830x915x450mm	31.03.2006	2600.00	Good
Office Rack	Wooden 915x305x760mm	31.03.2006	6560.00	Good
Steel Rack		19.03.2001	450.00	Good
Steel Book Cell	1675x840x305mm	6.03.2003	2899.50	Good
Steel Book Cell	1675x840x305mm	6.03.2003	2899.00	Good
Steel Book Cell		30.03.2004	9394.00	Good
Book Case	1675x840x305mm	31.03.2006	6720.00	Good
Padestal Fan		15.07.2001	Transferred	Good
Ceillling Fan	T-Series 48''	18.03.2002	926.00	Good
Lock		19.01.2004		Good
Lock		18.10.2004	110.00	Good
Chain		18.10.2004		Good
Pipe		25.01.2004	312.00	Good
Secateur		11.03.2004	346.00	Good
Budding Knife		11.03.2004	250.00	Good
Shower		19.03.2004	180.00	Good
Slide Projector O.H.PNr. 6089-5 Kinderman		31.03.2004	Transferred	Not working
Scanner HP		31.03.2004	3800.00	Good
CDRW Samsung CD Writer		31.03.2004	2200.00	Good
Iron Plates 15''x10''with Stand 4''Rod		25.08.2004	3625.00	Good
Board 3x2 with angle frame		25.08.2004	3375.00	Good
Tractor Sonalika DI 745III		21.12.2004	334350.00	Good
Sprayer cum Duster Aspee Bolo Motorised		31.01.2005	4650.00	Not working

Wonowing Fan Power Drawn	31.01.2005	5270.00	Good
Computer	31.12.2003	Transferred	Good
UPS	31.12.2003	Transferred	Good
Printer HP Laserjet 1000	31.12.2003	Transferred	Good
UPS	21.12.2004	2495.00	Good
Digital Still Camera Sony DSC-P 200	24.05.2006	21640.00	Not working
Cooler Cooler With Tullu Pump	24.03.2005	2400.00	Good
Cooler Stand	28.03.2005	575.00	Good
Paddy Transplanter Yanki Shakti 8row 2ZT-238	30.09.2005	151667.00	Not working
Tools 8 Pcs.	19.02.2007	1250.00	Good
LCD Projector Panasonic PT-PI SDEA	30.03.2007	64125.00	Not working
SD Memory Card		4000.00	Good
LCD Screen Hygeine			Good
Inverter Hyundai 1400 VA	14.05.2007	7900.00	Not working
Battery Exide 12 volts	14.05.2007	16600.00	Not working
Trolly (Double Battery)	14.05.2007	1300.00	Not working
Fax Machine Panasonic KX-FP 342	13.06.2007		Good
UPS Numeric Digital LI Series	13.06.2007		Good
Bicycle Hi-Bird Black HB 454273	22.09.2004	1825.00	Not working

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

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	14.11.21	1. Dr. Gopal Singh, JtDE, SVPUA&T, Meerut 2. Dr. Vinod Yadav, DDA, Pilibhit. 3. Sh. S. Dutta, DDM, NABARD. 4. Sh. A. R. Singh, DHO, Horti. 5. Sh Kaushal Kishor, SDAEO. 6. Dr. S. K. Tripathi, SVPUA&T 7. Dr. J. P. verma, VO 8. Sh. V. K. Singh SCDI 9. Sh. Vikas Kumar, A.O. Kribhco 10. Sh. Chandrahas AO, IFFCO 11. Dr. Anil Kumar, JE 12. Sh Gaurav Kumar, T.A. 13. Sh. Satendra Singh, Farmer	1. Dr. Gopal Singh gave direction to conduct demonstration on Various prominent variety of early & late varities of Wheat at KVK farm. 2. Dr. Gopal Singh directed to design a well manage crop cafeteria at KVK farm on front side. 3. Dr. Gopal Singh has given the direction for testing of the soil of all the farmer's field where FLDs and OFTs are supposed to be conducted, in the soil testing laboratory. 4. Dr. Vinod Yadav gave the direction that target and achievement against every activity should be mentioned 5. Dr. Vinod Yadav gave the direction that captions should be given at each photograph. 6. Dr. Vinod Yadav gave the direction that efforts should be made to replace the coarse seeded rice with basmati rice. 7. Kaushal Kumar, suggested that demonstration in the crop cafeteria should have clear mention of variety and date of sowing.	Demonstration on 12 Various prominent variety of early wheat & 16 late varieties of Wheat at KVK farm. Crop cafeteria has been developed in the Rabi season. Soil Testing Will be done for such fields in the coming season as per the instruction of the Director Extension. Target and achievement against every activity will be mentioned now onwards. Captions will be given at each photograph. Demonstrations as well as training programmes has been planned on basmati rice varieties Demonstration in the crop cafeteria will have clear mention of variety and date of sowing.

		14. Sh. Hariom, Member Farmer 15. Sh. Manjeet Singh Member Farmer 16. Smt. Harjeet Member Farmer 17. Smt. Shanti Devi, Memebr Farmer 18. Sh. Ranjeet, Farmer 19. Dr. Reena C. Sethi, Professor 20. Dr. S.S. Dhaka, Assoc. Prof. 21. Dr. Mukesh Kumar Programme Asstt. 22. Sh. Parveen Kumar Programme Asstt. 23. Km. Akanksha Chauhan 24. Sh. N. S. Rathore Office Suptt./Accountant 25. Sh. M. N. Dimri Jr. Steno/Comp. Operator 26. Sh Satendra Kumar Driver/Mechanic 27. Sh. Mool Kumar, Office Attendant 28. Sh. Aftab Singh, Farmer 29. Sh. Nandlal, Farmer	8. Kaushal Kumar suggested that the intercropping in sugarcane should be included in training programmes. 9. Kaushal Kumar, demanded that some good crop of different kind should be available at KVK farm so that visitor farmers may be benefited. 10. Dr S. K. Tripathi advised to conduct trainings on intercropping of vegetables with sugarcane. 11. Sh. S. Dutta suggested to impart more training programme on integrated Nutrient Management & balanced use of fertilizers. 12. Sh. S. Dutta advised to conduct demonstration and training programme on "wheat utilizing novel weedicides clodinofop" to popularize it among farmers. 13. DHO advised that achievements against targets should clearly be stated. 14. AO Kribhco suggested that summer rice cultivation should be discouraged to maintain the water table. 15. Sh Hariom, farmer member suggested that weekly agriculture bulletin should be given through local news papers. 16. Sh Manjeet Singh, Farmer Member suggested that new agro chemicals should be available at the KVK as sample to show the farmers. 17. Sh Hari Om, Farmer suggested that more number of demonstrations & trainings on sugarcane should be conducted. 18. Participation of farm women in On campus and Off campus training programme should be ensured. 19. Action photographs should be given in the report 20. DPC DASP suggested that KVK farm should be levelled to enhance the crop production.	Training programmes on intercropping in sugarcane has been included. The crop cafeteria was developed during the Rabi season to fulfil the demand. Trainings on intercropping of vegetables with sugarcane will be conducted. Four training programme on integrated Nutrient Management & balanced use of fertilizers has been included in the action plan. Demonstration and training as well as OFT programme on weed management in wheat though clodinofop are being conducted. Achievement against targets have been clearly stated in the report. Farmers are being informed about the ill effect of summer rice through trainings, gosthies & media coverage. Weekly agriculture updates & activities are being given in the local news papers. New agro chemicals will be kept at the KVK as sample to show the farmers. Two FLDs, one OFT & Six trainings on sugarcane has been included in the action plan. Farm women have participated in On and Off campus training programme. Action photographs have been incorporated in the report. KVK farm will be levelled before the paddy crop to enhance the crop production.

2. DETAILS OF DISTRICT (31st December, 2021)

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

S. No	Farming system/enterprise
1.	Wheat , paddy & sugarcane are the major crop of the district. Mainly five farming system are existing in district i.e. Agriculture-sugarcane-Horticulture; Agriculture-sugarcane-Animal husbandry; Agriculture-Animal husbandry-Sericulture; Agriculture-sugarcane-Animal husbandry-Horticulture & agriculture alone.

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

S. No	Agro-climatic Zone	Characteristics
1.	Tarai & Bhawar as well as mid-western plain Zone.	District comes under Tarai & Bhawar as well as mid-western plain agro climatic zone of Uttar Pradesh. The soil of district mainly made up of transported and deposited material of aluminum dominated rocks of Tarai region having pH 7.0 to 8.1. The total Geographical area of the district is 378384 ha and net cultivated area is 233387 ha. Total irrigated area is 2.03 lac. ha.which shows that 96% area is irrigated. 2.19, 1.90 & 0.19850 lac ha area is under Kharif, Rabi & Zaid crop, respectively. Cropping intensity of the district is 182%, therefore, there is a great scope to increase the cropping intensity in the district. Normal rainfall is 1134 mm and temperature between 2.5 to 38^0C.

S. No	Agro ecological situation	Characteristics
1.	**AES - I**	The district having sandy loam & loam soils with water table 12 to 15 feet and moderate fertility. It is most suitable for paddy, wheat, sugarcane, Pulses & banana etc. Lalaurikhera, Marauri and Barkhera development blocks fall under this AES.
2.	**AES - II**	The district having sandy loam to loam soils with moderate fertility medium rainfall, 15 to 20 feet water table. Two development blocks Viz. Bisalpur and Bilsanda come under this AES.
3.	**AES - III**	The district having clay & clay loam soil with high fertility, high rainfall and most suited for paddy, summer paddy, wheat and sugarcane cultivation. Two blocks Puranpur and Amaria come under this AES & waterlogging occurs during rainy season. Water table ranges between 10 to 12 feet.

2.3 Soil types

S. No	Soil type	Characteristics	Area in ha (Block wise)						
			Marauri	Lalaurikhera	Amaria	Barkhera	Bisalpur	Bilsanda	Puranpur
1.	Loam Soil	Well drain low organic matter deficient in NPK	8849 38%	7170 40%	13916 34%	8947 40%	9454 45%	13481 50%	30567 35%

2.	Sandy Loam Soil	Well drain low organic matter deficient in NP	11644 50%	8964 50%	19135 55%	11184 50%	9454 45%	9436 35%	48034 55%
3.	Sandy soil	Well drain low organic matter & medium texture soil.	2794 12%	1793 10%	1740 5%	2237 10%	2101 10%	4044 15%	4367 5%
4.	Clay Loam Soil	Water logged rich organic matter fine texture soil. Low NP & medium K available.	--	---	---	---	---	---	4367 5%

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

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qtl /ha)
1.	Wheat	158338	516990	41.77
2.	Paddy	143003	628859	30.10
3.	Sugarcane	101200	2774504	710.00
4.	Rai/Mustard	15605	5310	8.31
5.	Lentil	3407	1509	8.58
6.	Potato	910	13317	210.00

2.5. Weather data (2021)

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
January	35.67	16.5	5.5	NA
February	12.56	21.0	8.4	NA
March	67.67	28.0	11.6	NA
April	1.80	33.0	14.7	NA
May	2.00	34.0	18.8	NA
June	16.16	36.0	23.5	NA
July	51.06	37.5	25.8	NA
August	165.87	38.0	26.0	NA
September	213.85	36.0	22.0	NA
October	132.67	31.0	18.0	NA
November	25.34	28.5	14.5	NA
December	12.80	20.0	10.5	NA

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

Category	Population	Production	Productivity
Cattle			
Cow			
Crossbred	152525	NA	6.4
Indigenous	107758	NA	4.3
Buffalo	187968	NA	4.7
Sheep			
Crossbred			
Indigenous	972	NA	NA
Goats	86785	NA	NA

Pigs			
Crossbred	835	NA	NA
Indigenous	8311	NA	NA
Rabbits	NA	NA	NA
Poultry			
Hens			
Desi/Backyard	13284	NA	NA
Improved	74986	NA	NA

Category	Area	Production	Productivity
Fish			
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

2.7 Details of Operational area / Villages (31st December, 2021**)**

Sl.No.	Taluk/Tehsil	Name of the block	Name/No. of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Pilibhit	Amaria	142	Wheat, Paddy & Sugarcane	1. Imbalance use of fertilizer in wheat, paddy & sugarcane crops. 2. High incidence of diseases & pests in rice, wheat & sugarcane. 3. Lack of micronutrients in horticultural and agronomical crops. 4. Unavailability of improved variety of crops. 5. Lack of improved breed of Buffaloes & cows. 6. Imbalance feeding of milch animals. 7. Repeat breeding in milch animals. 8Lack of awareness regarding malnutrition. 9. Lack of knowledge regarding nutritive value of locally available meals among working men & women as well as lactating & pregnant women.	1. Imbalance use of fertilizer & high incidence of diseases & pests in wheat, paddy & sugarcane crops. 2. IPNM in agricultural & horticultural crops 3. Unavailability of open pollinated high Yielding & hybrid varieties in crops. 4. Decline in soil fertility. 5. Malnutrition in children. 6. Lack of knowledge regarding parenting style existing in rural areas. 7. Value addition. 8.Scientific Food grain Storage.
2.		Marauri	123	Wheat, Paddy & Sugarcane, Summer Paddy		
3.		Lalaurikhera	110	Wheat, Paddy & Sugarcane		
4.	Bisalpur	Barkhera	114	Wheat, Paddy & Sugarcane		
5.		Bisalpur	121	Wheat, Paddy & Sugarcane		
6.		Bilsanda	128	Wheat, Paddy & Sugarcane		
7.	Puranpur	Puranpur	321	Wheat, Paddy & Sugarcane, Summer Paddy		

2.8 Priority thrust areas

S. No	Crop/ Enterprise	Thrust area
1	Rice	IPM in rice.
2	Rice	Poor yield of basmati rice & scented indigenous.
3	Rice	Balanced use of fertilizers
4	Wheat	IPM in Wheat
5	Wheat	Balanced use of fertilizers
6	Sugarcane	IPM in sugarcane
7	Sugarcane	Balanced use of fertilizers
8	Sugarcane	Low organic matter contents in soil
9	Lentil	Non adoption of plant protection measures
10	Orchard	Problem of insects, diseases & lack of micronutrients in orchards
11	Orchard	Low productivity of Orchards
12	Livestock	Lack of improved breeds of buffalo and cows
13	Livestock	Lack of the feeding quality of milch animals
14	Livestock	Depletion in ground water
15	Home Science	Malnutrition in children
16	Post Harvest Mgt.	Value addition.
17	Post Harvest Mgt.	Scientific Food grain Storage
18	Poplar	Balance use of fertilizers, Use of proper clones & intercrops.

2.9 Intervention/ Programmes for the doubling the farmers income –(Jan 2021-Dec. 2021)

Demonstrations

Before Interventions	**Main crop Yield(q/ha)**	**Inter crop Yield(q/ha)**	**Equivalent Yield(q/ha)**	**Cost of cultivation(Rs/ha)***	**Net income(Rs/ha)**	**B.C: Ratio**	**Remark if any**
Intercropping System(Kharif-Rabi-Zaid) - Livestock etc.							
Rabi-Sugarcane	832.21			136871	130968	1:1.96	
Zaid-Sugarcane	753.36			125482	115519	1:1.92	

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

After Interventions	**Main crop Yield(q/ha)**	**Inter crop Yield(q/ha)**	**Equivalent yield(q/ha)**	**Cost of cultivation(Rs/ha)***	**Net income(Rs/ha)**	**B.C: Ratio**	**Remark if any**
Intercropping System(Kharif-Rabi-Zaid) - Livestock etc.							
Rabi- Sugarcane + Lentil	851.56	8.72	875.23	124562	162765	1:2.29	
Zaid- Sugarcane+ Blackgram	765.41	7.65	922.54	132645	171432	1:2.30	

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

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2021

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
07	05	35	25	50 ha	84.5 ha	100	119

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	70	60	1400	1200	1000	1477	10000	10604
Rural youth	07	07	70	70				
Extn. Functionaries	20	21	400	420				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
Rabi- 2020-21 (200 q)	325	Supplied to NSC	20000	8000 Onion Nursery Plants	34
Kharif- 2021 (200 q)	396	Supplied to NSC			

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 Weed Management	Paddy	Pretilachlor 25 EC @ 1.25 lit./ha	05	05
	Wheat	Clodinafop propargyl 50 EC + Metsulfuron methyl	05	05
Integrated Pest Management	Paddy	Chlorantraniliprole + thiamethoxam @ 10 kg/ha	05	05
	Paddy	Pymetrozine 50 WG @ 0.3 Kg/ha	05	05
	Sugarcane	Chlorantraniliprole 18.5 SC	05	05
Total			**25**	**25**

Summary of technologies assessed under livestock by KVKs

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

	enterprise	**assessed**		

Summary of technologies assessed under various enterprises by KVKs

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

I.B. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops by KVKs

Thematic areas	Crop	Name of the technology refined	No. of trials	No. of farmers

Summary of technologies refined under various livestock by KVKs

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

Summary of technologies refined under various enterprises by KVKs

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

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

1. WEED MANAGEMENT

Problem definition: Heavy infestation of weed in wheat.

Technology Assessed : Weed control measures on wheat in Pilibhit.

KVK Pilibhit took up on-farm trial on chemical weed management in paddy. Variety HD-2967

Table: Effect of Sulfosulfuron 75 WDG + Metsulfuron methyl and Clodinafop propargyl 50 EC + Metsulfuron methyl on weed control and yield of wheat.

Technology Option	No.of trials	No. of weeds/m^2	Yield (qt./ha)	Increase in yield (%)	Cost of Input/ha (Rs)	Total return per ha (Rs)	Net Return (Rs./ha)	B:C Ratio
Older weed control measure, Sulfosulfuron 75 WDG + 2,4-D. (Farmers Practice)	05	56	46.43	--	54761	90539	35778	1.65
Clodinafop propargyl 50 EC + Metsulfuron methyl		13	51.57	11.07	55873	100561	44688	1.80

(Sale Price. Rs 1950/q)

Farmers Reactions & Recommendations: The results indicated that the use of Clodinafop propargyl 50 EC + Metsulfuron methyl gave 11.07 per cent increase in yield over farmers practice of no use of chemical weed control.
Farmers liked the technology, use of Clodinafop propargyl 50 EC + Metsulfuron methyl for the management of weeds as it increased the yield of wheat significantly by reducing the weeds population.

2. WEED MANAGEMENT

Problem definition: Heavy infestation of weeds in paddy

Technology Assessed : Weed control measures on paddy yield in Pilibhit.

KVK Pilibhit took up on-farm trial on chemical weed management in paddy.

Table: Effect of Butachlor and Pretilachlor on weed control and yield at paddy

Technology Option	No.of trials	No. of weeds/m^2	Yield (qt./ha)	Increase in yield (%)	Cost of Input/ha (Rs)	Total return per ha (Rs)	Net Return (Rs./ha)	B:C Ratio
Older weed control measure (Farmers Practice, Butachlor)	05	132	49.92	--	57241.0	89856	32615.0	1.56
Pretilachlor 50 EC @ 1.25 l/ha prior to transplanting		38	56.87	13.92	59652.0	102366	42714.0	1.71

(Sale Price. Rs 1800/q)

Farmers Reactions & Recommendations: The results indicated that the use of Pretilachlor @ 1.25 l/ha gave 13.92 per cent increase in yield over farmers practice of no use of chemical weed control.
Farmers liked the technology, use of Pretilachlor 50 EC @ 1.25 l/ha. for the management of weeds as it increased the yield of paddy significantly by reducing the weeds population.

3. PEST AND DISEASE MANAGEMENT

Problem definition: Heavy infestation of early shoot borer in sugarcane effecting in a yield loss of 15 to 20%

Technology Assessed: Early shoot borer Management in Sugarcane (Co-0238).

Sugarcane is an important cash crop of Pilibhit. However, there is high incidence of early shoot borer pest resulting in yield loss. An on farm trial was conducted to assess the control measure.

Table Effect of different methods in control of early stem borer in sugarcane

Technology Option	No. of trials	Infestation of early shoot borer (%)	Yield (q/ha)	% Increase in yield over farmer's practice	Cost of Input/ha (Rs.)	Total return per ha (Rs.)	Net Return (Profit)/ ha (Rs.)	CB Ratio
Application Cartap 4G @ 25 kg/ha (Farmers Practice)	05	14.21	778.32	--	136721	252954	116233	1.85

Application of chlorantraniliprole 18.5 SC @ 0.425 l/ha		4.57	876.21	12.58	140512	284768	144256	2.02

(Sale Price. Rs. 325/q)

Farmers Reactions & Recommendations: The assessed technology of application of chlorantraniliprole 18.5 SC @ 0.425 l/ha reduced the percentage of insect infestation from 14.21 to 4.57 and yield was increased by 12.58 per cent.

Farmers appreciated the technology, Application of chlorantraniliprole 18.5 SC @ 0.425 l/ha to manage the early shoot borer in sugarcane as it reduced the insect infestation effectively and significantly increased the yield of sugarcane.

4. PEST AND DISEASE MANAGEMENT

Problem definition: Heavy infestation of stem borer in paddy effecting in a yield loss of 15 to 20%

Technology Assessed: Stem borer Management in paddy (PR-121).

Paddy is an important cereal crop of Pilibhit. However, there is high incidence of Stem borer pest resulting in yield loss. An on farm trial was conducted to **assess** the control measure.

Table Effect of different methods in control of stem borer in paddy

Technology Option	No. of trials	Infestation of stem borer (%)	Yield (q/ha)	% Increase in yield over farmer's practice	Cost of Input/ha (Rs.)	Total return per ha (Rs.)	Net Return (Profit)/ ha (Rs.)	CB Ratio
Application of cartap hydrochloride 4G @ 25 kg/ha (Farmers Practice)	05	9.56	51.76	--	57651	93168	35517	1.61
Application of chlorantraniliprole + thiamethoxam @ 10 kg/ha		5.12	55.39	7.01	59871	99702	39831	1.66

(Sale Price. Rs. 1800/q)

Farmers Reactions & Recommendations: The assessed technology of application of chlorantraniliprole + thiamethoxam @ 10 kg/ha reduced the percentage of Insect infestation from 9.56 to 5.12 and yield was increased by 7.01 per cent.

Farmers appreciated the technology, Application of chlorantraniliprole + thiamethoxam @ 10 kg/ha to manage the stem borer in paddy as it reduced the insect infestation effectively and significantly increased the yield of paddy.

5. PEST AND DISEASE MANAGEMENT

Problem definition: Heavy infestation of Brown Plant hopper in paddy effecting in a yield loss of 12 to 18%

Technology Assessed: Brown Planthopper Management in paddy (PR-113).

Paddy is an important cereal crop of Pilibhit. However, there is high incidence of Brown Planthopper pest resulting in yield loss. An on farm trial was conducted to **assess** the control measure.

Table Effect of different methods in control of Brown Planthopper in paddy

Technology Option	No.of trials	Infestation of Brown Planthopper (%)	Yield (q/ha)	% Increase in yield over farmer's practice	Cost of Input/ha (Rs.)	Total return per ha (Rs.)	Net Return (Profit)/ ha (Rs.)	CB Ratio
Application of buprofezin 25 SC @1.0 l/ha (Farmers Practice)	05	16.52	50.76	--	58652	91368	32716	1.56
Application of pymetrozin 50 WG @ 0.3 kg/ha		4.13	56.43	11.17	61762	101574	39812	1.64

(Sale Price. Rs. 1800/q)

Farmers Reactions & Recommendations: The assessed technology of Application of pymetrozin 50 WG @ 0.3 kg/ha reduced the percentage of insect infestation from 16.52 to 4.13 and yield was increased by 11.17 per cent. Farmers appreciated the technology, application of pymetrozin 50 WG @ 0.3 kg/ha to manage the brown planthopper in paddy as it reduced the insect infestation effectively and significantly increased the yield of paddy.

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2021 and recommended for large scale adoption in the district

S. N	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	Varietals evaluation	Replacement of local variety of mustard by PPS-1	FLD	95	976	1143
2	Integrated pest Management	Management of stem borer in Paddy.	FLD	136	471	318
3	Integrated Disease Management	Use of bio rational chemicals to control Karnal bunt of Wheat.	FLD	78	435	376
4	Integrated Pest Management	Use of bio rational chemicals to control aphids in Wheat.	FLD	83	561	481
5	Integrated weed management	Use of pre emergence weedicide in paddy crop	FLD	84	876	450
6	Integrated weed management	Use of post emergence weedicide in paddy crop	FLD	81	731	576
7	IPM	Use of bio rational chemicals to control early shoot borer of sugarcane.	FLD	46	263	198
8	Weed Management	Weedicides to control *Phalaris minor* in Wheat	FLD	71	235	310
9	Integrated weed management	Use of post emergence weedicide to control broad leaved weeds in wheat crop	FLD	84	876	450
10	Integrated weed management	Use of post emergence weedicide to control hardy broad leaved weeds in wheat crop	FLD	41	131	47
11	Nutritional Garden	Production potential technology for cultivation of vegetables in nutrition garden.	FLD	04	16	1.0
12	Value addition	Value addition of cereal, pulses and millet (sorghum, pearl millet)	FLD	02	08	-

b. Details of FLDs implemented during 2021

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Mustard	Varietal Evaluation	PPS-1	Rabi 2020-21	20.0	20.0	6	44	50	
2	Paddy	Integrated pest Management	Management of stem borer in paddy. Chlorantraniliprole	Kharif 2021	8.0	8.0	2	18	10	
3	Wheat	Integrated Disease Management	Use of bio rational chemicals to control karnal bunt of Wheat. Propiconazole	Rabi 2020-21	8.0	8.0	3	17	20	
4	Wheat	Integrated Pest Management	Use of bio rational chemicals to control aphids of Wheat. Thiamethoxam 25 WDG	Rabi 2020-21	8.0	8.0	2	18	20	
5	Paddy	Weed Control	Preemergence Pretilachlor	Kharif 2021	8.0	8.0	3	17	20	
6	Paddy	Weed Control	Postemergence by Bispyribac sodium	Kharif 2021	4.0	4.0	2	8	10	
7	Wheat	Weed Control	Improved weedicide Clodinafop Propargyl	Rabi 2020-21	8.0	8.0	3	17	20	
8	Wheat	Weed Control	Improved weedicide Metsulfuran methyl	Rabi 2020-21	8.0	8.0	2	18	20	
9	Wheat	Weed Control	Improved weedicide carfentrazone	Rabi 2020-21	8.0	8.0	4	16	20	
10	Sugarcane	IPM	Use of bio rational chemicals to control early shoot borer of sugarcane. Chlorantraniliprole	Zaid 2020	4.0	4.0	2	8	10	
11	Nutritional Garden	Household nutritional security	Use of vegetables throughout the year	Rabi 2020-21	0.5	0.5	1	04	05	
12	Value Addition	Value addition	Processing of cereals, millets and pulses for enhancing nutritional value of the food	Rabi 2020-21	-	-	02	02	02	
				Total	84.5	84.5	32	87	119	

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					
Mustard	Rabi 2020-21	Irrigated	Clay Loam	Low	Low	Medium	Paddy	05.11.20	02.03.21		
Paddy	Kharif 2021	Irrigated	Clay Loam	Low	Low	Medium	Wheat	04.07.21	26.11.21		
Wheat	Rabi 2020-21	Irrigated	Clay Loam	Low	Low	Medium	Paddy	14.11.20	12.04.21		
Wheat	Rabi 2020-21	Irrigated	Clay Loam	Low	Low	Medium	Paddy	06.11.20	07.04.21		
Paddy	Kharif 2021	Irrigated	Clay Loam	Low	Low	Medium	Wheat	16.07.21	28.11.21		
Paddy	Kharif 2021	Irrigated	Clay Loam	Low	Low	Medium	Wheat	02.07.21	15.11.21		
Wheat	Rabi 2020-21	Irrigated	Clay Loam	Low	Low	Medium	Paddy	11.11.20	12.04.21		
Wheat	Rabi 2020-21	Irrigated	Clay Loam	Low	Low	Medium	Paddy	07.11.20	09.04.21		
Wheat	Rabi 2020-21	Irrigated	Clay Loam	Low	Low	Medium	Paddy	05.07.19	11.11.20		
Sugarcane	Zaid 2020	Irrigated	Clay Loam	Low	Low	Medium	Toria	08.03.20	18.02.21		
Nutritional Garden	Rabi 2020-21	Irrigated	Clay Loam	Low	Low	Medium	Paddy	05.11.19	06.04.20		
Value Addition	Rabi 2020-21	-	-	-	-	-	-	-	-		

Technical Feedback on the demonstrated technologies

S. No	Crops	Feed Back
1	Mustard	Mustard PPS-1 variety is higher in yield than local.
2	Paddy	Chlorantraniliprole 18.5 SC gave good control of stem borer in paddy.
3	Wheat	Propiconazole 25 EC was found very effective in managing the rusts of wheat.
4	Wheat	Thiamethoxam 25 WDG was found very effective in managing the aphids in wheat crop.
5	Paddy	Pretilachlor controlled the weeds very effectively as pre-emergent treatment.
6	Paddy	Bispyruvic sodium controlled the the weeds very effectively as post-emergent treatment.
7	Wheat	Clodinafop propargyl controlled the narrow-leaved weeds very effectively.
8	Wheat	Metsulfuran methyl controlled the broad-leaved weeds very effectively.
9	Wheat	Carfentrazone controlled the hardy broad-leaved weeds very effectively.
10	Sugarcane	Integrated Pest Management gave better yield than normal practice
	Nutritional Garden	Enhancing the quantity of seasonal vegetables in daily diet of farm families improving nutritional security of the family members.
11	Value Addition	Availability of value added cereal products in the diet

Farmers' reactions on specific technologies

S. No	Feed Back
1	High attack wild animal especially blue bull was noticed as a serious hurdle in increasing the area, production & productivities of pulses crop specially Lentil.
2	Farmer's were very keen in adopting the chemical methods of pest and disease management as they were looking for instant suppression of pests
3	Farmer's are adopting the chemical weed control practices to control the major weeds of wheat

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	12	April to Mar.	375	
2	Farmers Training	48	April to Mar.	960	
3	Media coverage	39	April to Mar.	Mass	
4	Training for extension functionaries	05	April to Mar.	85	

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	% Increase in yield	Economics of demonstration (Rs./ha)				Economics of checks./ha)			
					H	L	A			Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oilseed Crop																	
Mustard	Replacement of local variety of mustard	PPS-1	50	20.0	16.76	12.43	14.12	11.32	24.73	45632	77660	32028	1.70	42671	62260	19589	1.46

FLD on Other crops

Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	% Increase in yield	Economics of demonstration (Rs./ha)				Economics of checks./ha)			
					H	L	A			Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Other Crops																	
Paddy	Use of chlorantraniliprole to control stem borer	PR-113	10	4.0	58.64	53.76	55.32	51.65	7.11	57632	99576	41944	1.73	55463	92970	37507	1.68
Wheat	Integrated disease management in wheat	DBW-17	10	4.0	57.53	50.64	53.54	49.29	8.62	55872	101726	45854	1.82	53482	93651	40169	1.75
Wheat	Integrated Pest management in wheat	HD-2967	10	4.0	57.53	50.64	54.43	50.12	8.60	56321	103417	47096	1.84	54651	95228	40577	1.74
Paddy	Improved weedicide pretilachlor	PR-121	20	8.0	60.12	54.75	54.54	50.43	8.15	56753	98172	41419	1.73	54387	90774	36387	1.67
Paddy	Improved weedicide bispyribac sodium	PR-121	10	4.0	60.45	54.28	52.67	48.76	8.02	55651	94806	39155	1.70	53452	87768	34316	1.64
Wheat	Improved weedicide clodinafop propargyl	DBW-16	20	8.0	52.87	46.65	49.76	45.65	9.00	54762	94544	39782	1.73	52387	86735	34348	1.66

Wheat	Improved weedicide metsulfuron methyl	HD-2967	20	8.0	57.87	55.37	56.87	50.87	11.79	56732	108053	51321	1.90	52387	96653	44266	1.84
Wheat	Improved weedicide carfentrazone	DBW-187	20	8.0	56.76	52.53	54.65	49.74	9.87	55762	103835	48073	1.86	53452	94506	41054	1.77
Commercial Crops																	
Sugar cane	Use of chlorantraniliprole to control early shoot borer	Co-0238	10	4.0	850.65	802.34	845.64	767.38	10.20	141875	274833	132958	1.94	145982	249398.5	103416.5	1.71
Nutritional Garden																	
Seasonal Vegetables	Nutritional Garden	Seasonal Vegetables	05	0.5	21	17	19	12	58.33	165	1250	1085	7.57	100	417	317	3.16
Value addition																	
Wheat ,moong,pearl millet and sorgham	Value addition		08							No preservation practices.	Introduction of new value added products		4.34				3.21

(Sale Price. Mustard- Rs. 5500/q, Paddy- Rs. 1800/q, Wheat- Rs. 1900/q)

Cluster FLDs

Technology demonstrated during previous year and popularized during 2020 and recommended for large scale adoption in the district

S. N	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	Varietals evaluation	Replacement of local variety of mustard by Pant Pili Sarson-1	FLD	37	163	51

Details of cluster FLDs implemented during 2021

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Mustard	Varietal Evaluation	Pant Pili Sarson-01	Rabi 2020-21	20.0	20.0	7	43	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					
Mustard	Rabi 2020-21	Irrigated	Clay Loam	Low	Low	Medium	Paddy	05.11.20	02.03.21		

Technical Feedback on the demonstrated technologies

S. No	Crops	Feed Back
1	Mustard	Pant Pili Sarson -1 is better than local varieties in respect of yield and insect & pest diseases.

Performance of Cluster FLD

Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	% Increase in yield	Economics of demonstration (Rs./ha)				Economics of checks./ha)			
					H	L	A			Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oilseed Crop																	
Mustard	Replacement of local variety of Mustard	Pant Pili Sarson -1	50	20.0	16.76	12.43	14.12	11.32	24.73	45632	77660	32028	1.70	42671	62260	19589	1.46

(Sale Price. Mustard- Rs. 5500/q)

III. TRAINING PROGRAMME

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	02	29	04	33	06	01	07	35	05	40
Cropping Systems										
Micro Irrigation/irrigation										
Nursery management										
Total	**02**	**29**	**04**	**33**	**06**	**01**	**07**	**35**	**05**	**40**
II Horticulture										
III Soil Health and Fertility Management										
Soil fertility management	01	17	01	18	02	00	02	19	01	20
Integrated Nutrient Management										
Balance use of fertilizers										
Total	**01**	**17**	**01**	**18**	**02**	**00**	**02**	**19**	**01**	**20**
IV Livestock Production and Management										
V Agril. Engineering										
VI Home Science/Women empowerment										
Household food security through nutrition gardening	2	0	35	35	0	5	5	0	40	40
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet	1	0	17	17	0	3	3	0	20	20
Minimization of nutrient losses in				0			0	0	0	0
Processing and cooking				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition				0			0	0	0	0
Women empowerment	1	0	18	18	0	2	2	0	20	20
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care	1	0	16	16	0	4	4	0	20	20
Others (pl specify)				0			0	0	0	0
Total	**5**	**0**	**86**	**86**	**0**	**14**	**14**	**0**	**100**	**100**
VII Plant Protection										
Integrated Pest Management	02	31	04	35	04	01	05	35	05	40
Integrated Disease Management	02	33	01	34	05	01	06	38	02	40
Bio-control of pests and diseases	01	16	01	17	03	00	03	19	01	20
Production of bio control agents and bio pesticides	01	15	01	16	03	01	04	18	02	20
Total	**06**	**95**	**07**	**102**	**15**	**03**	**18**	**110**	**10**	**120**
IX Production of Inputs at site										
Seed Production	01	14	03	17	03	00	03	17	03	20
Vermi-compost production	01	15	01	16	04	00	04	19	01	20
Total	**02**	**29**	**04**	**33**	**07**	**00**	**07**	**36**	**04**	**40**
X Capacity Building and Group Dynamics										
Leadership development	01	15	02	17	03	00	03	18	02	20
Group dynamics										
Formation and Management of SHGs	01		15	15		05	05	0	20	20
Total	**02**	**15**	**17**	**32**	**03**	**05**	**08**	**18**	**22**	**40**
XI Agro-forestry										
GRAND TOTAL	**18**	**191**	**118**	**309**	**27**	**24**	**51**	**218**	**142**	**360**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	02	31	03	34	05	01	06	36	04	40
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Nursery management										
Integrated Crop Management										
Soil & water conservation										
Total	**02**	**31**	**03**	**34**	**05**	**01**	**06**	**36**	**04**	**40**
II Horticulture										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management	01	15	05	20	0	00	00	15	05	20
Total	**01**	**15**	**05**	**20**	**0**	**00**	**00**	**15**	**05**	**20**
IV Livestock Production and Management										
VI Agril. Engineering										
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	02	-	36	36	-	04	04	-	40	40
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	02	-	35	35	-	05	05	-	40	40
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs	01	-	17	17	-	03	03	-	20	20
Storage loss minimization techniques										
Value addition	02	-	36	36	-	04	04	-	40	40
Women empowerment	01		17	17	-	03	03	-	20	20
Location specific drudgery reduction technologies	02	-	35	35	-	05	05	-	40	40
Rural Crafts	01	-	18	18	-	02	02	-	20	20
Women and child care	02		34	34	-	06	06	-	40	40
Others (pl specify)										
Total	**13**		**228**	**228**		**32**	**32**		**260**	**260**
VII Plant Protection										
Integrated Pest Management	06	82	07	89	29	02	31	111	09	120
Integrated Disease Management	04	63	05	68	12	00	12	75	05	80
Bio-control of pests and diseases	03	48	03	51	08	01	09	56	04	60
Production of bio control agents and bio pesticides	02	33	02	35	05	00	05	38	02	40
Total	**15**	**226**	**17**	**243**	**54**	**03**	**57**	**280**	**20**	**300**
IX Production of Inputs at site										
Seed Production	02	34	03	37	03	00	03	37	03	40
Planting material production	01	18	00	18	02	00	02	20	00	20
Vermi-compost production	01	15	01	16	04	00	04	19	01	20
Total	**04**	**67**	**04**	**71**	**09**	**00**	**09**	**71**	**09**	**80**
X Capacity Building and Group Dynamics										
Leadership development	1	17	2	19	1	0	1	18	2	20
Group dynamics	1	16	2	18	2	0	2	18	2	20
Formation and Management of SHGs	2	23	9	32	6	2	8	29	11	40
Mobilization of social capital	1	17	0	17	3	0	3	20	0	20
Entrepreneurial development of	1	16	0	16	4	0	4	20	0	20

farmers/youths										
WTO and IPR issues	1	18	1	19	1	0	1	19	1	20
Total				0			0	0	0	0
XI Agro-forestry										
GRAND TOTAL	**42**	**446**	**271**	**717**	**25**	**98**	**144**	**471**	**369**	**840**

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	04	60	07	67	11	02	13	71	09	80
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Total	**04**	**60**	**07**	**67**	**11**	**02**	**13**	**71**	**09**	**80**
II Horticulture										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management	03	47	05	52	08	00	08	55	05	60
Total	**03**	**47**	**05**	**52**	**08**	**00**	**08**	**55**	**05**	**60**
IV Livestock Production and Management										
V Agril. Engineering										
VI Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	02	-	34	34	-	06	06	-	40	40
Design and development of low/minimum cost diet	02	-	32	32	-	08	08	-	40	40
Gender mainstreaming through SHGs	01	-	17	17	-	03	03	-	20	20
Value addition	02	-	36	36	-	04	04	-	40	40
Women empowerment	02	-	35	35	-	05	05	-	40	40
Location specific drudgery reduction technologies	02	-	35	35	-	05	05	-	40	40
Rural Crafts	01	-	18	18	-	02	02	-	20	20
Women and child care	02	-	30	30	-	10	10	-	40	40
Total	**14**		**237**	**237**		**43**	**43**		**280**	**280**
VII Plant Protection										
Integrated Pest Management	08	113	11	124	33	03	36	146	14	160
Integrated Disease Management	06	96	06	102	17	01	18	113	07	120
Bio-control of pests and diseases	04	64	04	68	11	01	12	75	05	80
Production of bio control agents and bio pesticides	03	48	03	51	08	01	09	56	04	60
Others (pl specify)										
Total	**21**	**321**	**24**	**345**	**69**	**06**	**75**	**390**	**30**	**420**
IX Production of Inputs at site										
Seed Production	01	15	3	18	01	01	02	18	02	20
Planting material production	01	18	00	18	02	00	02	20	00	20
Vermi-compost production	01	17	01	18	02	00	02	18	02	20
Total	**03**	**50**	**04**	**54**	**05**	**01**	**06**	**54**	**06**	**60**
X Capacity Building and Group Dynamics										
Leadership development	01	16	00	16	04	00	04	20	00	20
Group dynamics	01	18	00	18	02	00	02	20	00	20
Formation and Management of SHGs	01	17	01	18	02	00	02	18	02	20

Mobilization of social capital	01	17	00	17	03	00	03	20	00	20
Entrepreneurial development of farmers/youths	01	16	00	16	04	00	04	20	00	20
WTO and IPR issues	01	18	01	19	01	00	01	19	01	20
Total	**06**	**80**	**18**	**225**	**20**	**2**	**22**	**100**	**20**	**120**
XI Agro-forestry										
GRAND TOTAL	**60**	**637**	**389**	**1026**	**52**	**122**	**174**	**689**	**511**	**1200**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of crops										
Integrated farming	01	07	01	08	02	00	02	09	01	10
Seed production	01	09	00	09	01	00	01	10	00	10
Production of organic inputs	01	09	00	09	01	00	01	10	00	10
Planting material production	02	16	00	16	04	00	04	20	00	20
Tailoring and Stitching	02	0	17	17	0	03	03	0	20	20
Any other (pl.specify)										
TOTAL	**07**	**41**	**18**	**59**	**08**	**03**	**11**	**49**	**21**	**70**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	**2**	32	0	32	8	0	8	40	0	40
Integrated Pest Management	**6**	107	0	107	13	0	13	120	0	120
Integrated Nutrient management	**1**	17	0	17	3	0	3	20	0	20
Production and use of organic inputs	**2**	32	0	32	8	0	8	40	0	40
Women and Child care	**2**	0	28	28	0	12	12	0	40	40
Gender mainstreaming through SHGs	**2**	0	28	28	0	12	12	0	40	40
Formation and Management of SHGs	**1**	14	0	14	6	0	6	20	0	20
Group Dynamics and farmers organization	**1**	12	2	14	5	1	6	17	3	20
Information networking among farmers	**1**	15	0	15	5	0	5	20	0	20
Household food security	**1**	0	17	17	0	3	3	0	20	20
Low cost and nutrient efficient diet designing	**2**	0	34	34	0	6	6	0	40	40
TOTAL	**21**	**229**	**109**	**338**	**48**	**34**	**82**	**277**	**143**	**420**

Table. Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	23	1231	121	1352	321	24	345	1552	145	1697
Commercial production of vegetables	4	143	45	188	15	6	21	158	51	209
Total	**53**	**3004**	**329**	**3333**	**724**	**51**	**775**	**3728**	**380**	**4108**
Production and value addition										
Fruit Plants	2	139	12	151	39	5	44	178	17	195
Soil health and fertility management	15	876	78	954	99	32	131	975	110	1085
Production of Inputs at site	2	178	19	197	58	11	69	236	30	266
Methods of protective cultivation	1	67	11	78	23	2	25	90	13	103
Total	**20**	**1260**	**120**	**1380**	**219**	**50**	**269**	**1479**	**170**	**1649**
Post harvest technology and value addition										
Processing and value addition	2	132	21	153	36	5	41	168	26	194
Total	**2**	**132**	**21**	**153**	**36**	**5**	**41**	**168**	**26**	**194**
Farm machinery										
Farm machinery, tools and implements	5	261	22	283	56	9	65	317	31	348
Total	**5**	**261**	**22**	**283**	**56**	**9**	**65**	**317**	**31**	**348**
Livestock and fisheries										
Livestock production and management	9	535	59	594	139	22	161	674	81	755
Animal Nutrition Management	10	578	89	667	153	19	172	731	108	839
Animal Disease Management	4	176	12	188	31	2	33	207	14	221
Total	**23**	**1289**	**160**	**1449**	**323**	**43**	**366**	**1612**	**203**	**1815**
Agricultural Extension										
Capacity Building and Group Dynamics	2	79	5	84	23	2	25	102	7	109
Total	**2**	**79**	**5**	**84**	**23**	**2**	**25**	**102**	**7**	**109**
GRAND TOTAL	**89**	**4862**	**585**	**5447**	**1072**	**148**	**1220**	**5934**	**733**	**6667**

Name of sponsoring agencies involved- Ag. Deptt & ATMA, Pbt , Sugarcane Development Department , NABARD, Dainik Jagran, Pilibhit, IDE India, Pbt, Dhanuka Agritech Ltd., Pilibhit, BOB, RSETI, Pilibhit, Suchetna Gramin Seva Samiti, NFL, Bank of Baroda, Pilibhit, Fisheries Deptt., Pilibhit, Ganna Kisan Sansthan, Shahjahanpur, RLS Govt. Girls College, Pahal Gramin Seva Samiti, Plant Protection Deptt

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

Area of training	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										
Integrated farming	01	07	01	08	02	00	02	09	01	10
Seed production	01	09	00	09	01	00	01	10	00	10
Production of organic inputs	01	09	00	09	01	00	01	10	00	10
Planting material production	02	16	00	16	04	00	04	20	00	20
Tailoring and Stitching	02	0	17	17	0	03	03	0	20	20
Any other (pl.specify)										
TOTAL	**07**	**41**	**18**	**59**	**08**	**03**	**11**	**49**	**21**	**70**

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	782	1365	43	2190
Diagnostic visits	16	143	12	171
Field Day	22	560	40	622
Group discussions	25	405	10	440
Kisan Goshthi	45	3000	55	3100
Film Show				0
Self -help groups	02	32	00	34
Kisan Mela	08	1400	50	1458
Exhibition	08	950	50	1008
Scientists' visit to farmers field	540	780	30	1350
Plant/animal health camps	01	100	05	106
Farm Science Club	02	69	4	75
Ex-trainees Sammelan				0
Farmers' seminar/workshop	02	100	2	104
Method Demonstrations	4	23	2	29
Celebration of important days	10	570	34	614
Special day celebration	04	400	50	454
Exposure visits	06	300	20	326
Others (pl. specify)				
Total	**1477**	**10197**	**407**	**10604**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	02
Extension Literature	04
News paper coverage	145
Popular articles	11
Technical Reports	08
Radio Talks	04
TV Talks	01
Animal health amps (Number of animals treated)	
Others (pl. specify)	
Total	**175**

Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Awar e-ness	Other enterpri se	Total
Pilibhit	Text only	21	2	8	1	11	2	55
	Voice only							
	Voice & Text both							
	Total Messages	**21**	**2**	**8**	**1**	**11**	**2**	**55**
	Total farmers Benefitted	**2445**	**234**	**342**	**123**	**1231**	**231**	**4606**

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies	3	231	
	Lectures organised			
	Exhibition			
	Film show			
	Fair			
	Farm Visit			
	Diagnostic Practicals			
	Distribution of Literature (No.)			
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)			
	Bio Product distribution (Kg)			
	Bio Fertilizers (q)			
	Distribution of fingerlings			
	Distribution of Livestock specimen (No.)			
	Total number of farmers visited the technology week			

VI. PRODUCTION OF SEED/PLANTING MATERIAL AND 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- 187		325.00		NSC
	Paddy	PR- 113		396.00		NSC
Total				**721.00**		

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
Forest Species	Poplar	Bareilly clones, G-48 L-Series, S7-Series pp-5, ph-1, ph-2		400 ETP(mother plant)		Consumed at KVK Pilibhit
Saplings	Onion	Agrifound Light Red		4000		
Total				**4400**		

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio-fungicide	***Trichoderma harzianum Beauveria bassiana***	**50.0**	-	-

Table: Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Total				

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Total	**200**	**200**	**45**	

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
KVK Pilibhit	01

IX. NEWSLETTER

Name of News letter	No. of Copies printed for distribution

X. PUBLICATIONS

Category	Number
Research Paper	06
Technical bulletins	01
Technical reports	08
Abstracts	14

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

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

XIII. DETAILS ON HRD ACTIVITIES – NA

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

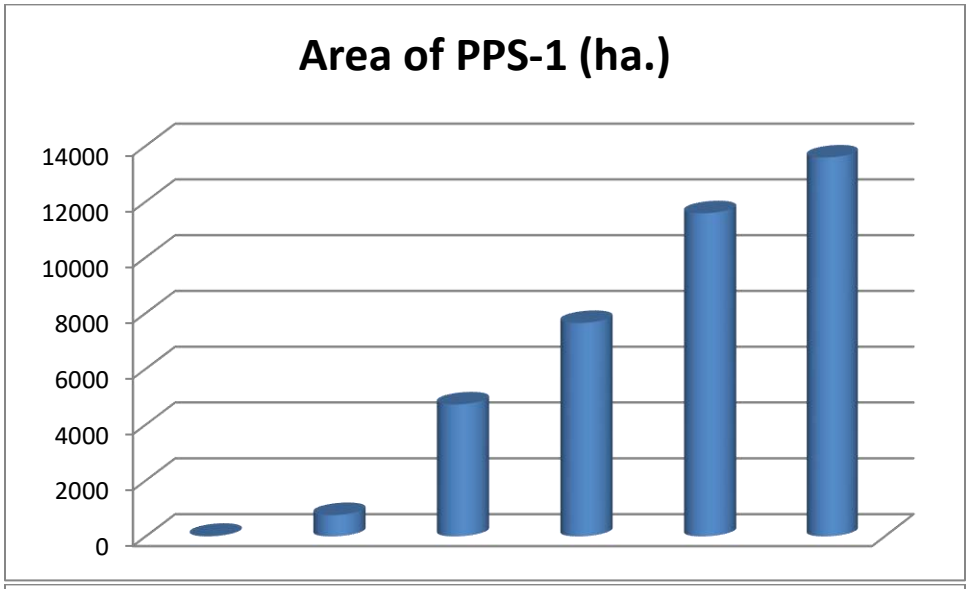
Technology identified for Dissemination

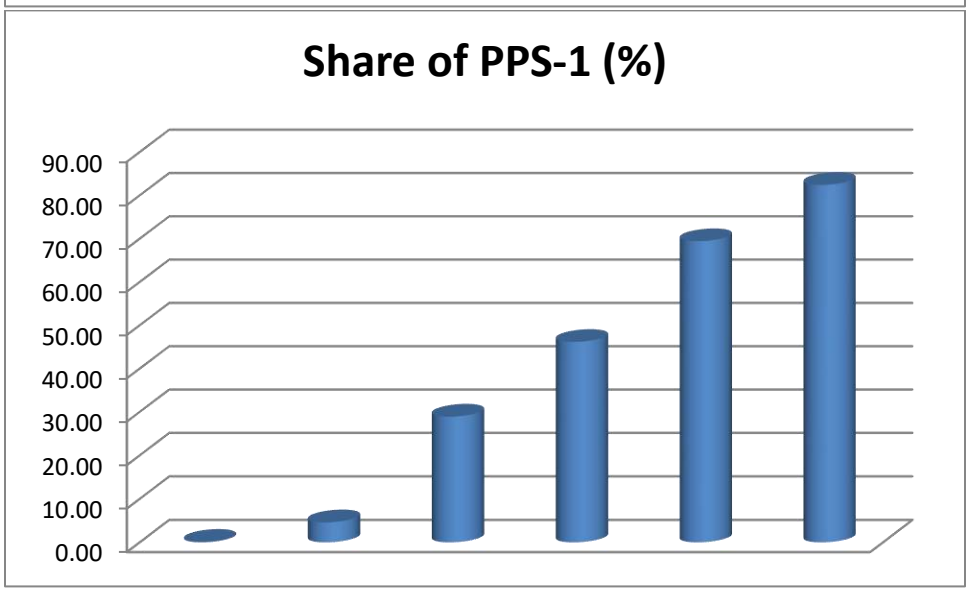
Pant Pili Sarson – 1
Identified by KVK Pilibhit
Need of the district- In Pilibhit district mustard/ toria is sown at approximately 16500 ha. area . Here most of the mustard is sown after harvesting of paddy and followed by sugarcane crop. The conventional toria varieties like PT-303 and PT-507 were sown by the farmers, which did not fetch good profit to the farmers. The toria varieties perform well if they are sown upto 20 September but it could not be done as the harvesting of paddy is done upto 15 November in the district. The late sowing of toria varieties could npt give good yield of the crops.

So the farmers needed a mustard variety of short duration so that it could fit between the paddy and sugarcane crop in the district. KVK Pilibhit identified and introduced Pant Pili Sarson-1 variety in Rabi 2012-13 season through Front line demonstrations. It soon gained the popularity and the area of the variety is increasing year after year giving farmers a good crop as well as profit.

Table: Area expansion of the mustard variety PPS-1 in district Pilibhit

Year	Area of Mustard/ Toria (ha.)	Area of PPS-1 (ha.)	Share of PPS-1 (%)
2015-16	16683	20	0.12
2016-17	16572	762	4.60
2017-18	16334	4723	28.92
2018-19	16562	7645	46.16
2019-20	16683	11581	69.42
2020-21	16481	13582	82.41





XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE: *N.A.*

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION : *N.A.*

XVI. Achievement of Special programmes

1) Achievement of skill development training funded by DAC&FW : N.A.

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

a) CRM Machinery procured by KVKs

S.No.	Name of the Machine/ Equipment	No. of machines procured
1	Happy Seeder	01
2	Reversible M.B. Plough	02
3	Paddy Straw Chopper/ Shradder / Mulcher	01
4	Zero Till Drill	01
5	Rotavator	
6	Tractor	01
	Total	06

b) IEC activities organized under CRM Project by KVKs

S. No.	Name of IEC activity	No. of activities	No. of Participants
	Kisan Melas organized	10	2150
1.	Awareness programmes conducted at Village Panchayat/ Block/ District Level	13	2780
2.	Mobilization of schools and colleges through essay completion, painting, debate etc.	04	1400
3.	Demonstration conducted (ha)	60	90
4.	Training Programmes conducted	03	75
5.	Exposure visits organized	04	70
6.	Field /harvest days organized	04	70
	Total	98	6635

b) Other IEC activities organized under CRM Project by KVKs

S. No.	Name of IEC activity	No. of activities
1.	Advertisement in Print media	03
2.	Column / Articles in newspaper and magazines etc.	15
3.	Hoarding fixed (at Mandi/ Road side/Market/ Schools/ Petrol pump/ Panchayat etc.)	20
4.	Poster/Banner placed	100
5.	Publicity material - leaflets/ pamphlets etc. distributed	7000
6.	TV programmes/ panel discussions Doordarshan/ DD-Kisan and other private channels	02
7.	Wall writing	20
	Total	7160

3) Achievement of TSP (Tribal Sub Plan) : N.A.

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

5) Achievements of SCSP KVKs : N.A.

6) Achievement under IFS KVKs : N.A.

7) Achievements under Mera Gaon Mera Gaurav (MGMG) project : N.A.

8) Achievements of Farmers FIRST programme : N.A.

9) Activities performed under NARI programme

Table-9.1: Details of activities performed under NARI programme

Nutritional Garden		Bio-fortified crops		Value addition		Training programmes		Extension activities	
No of Established	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries
30	55	12	65	02	45	020	100	34	400

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

Category	Bio Fortified Crop	Variety	Area (ha)	No of Beneficiaries
Cereal	Maize			
	Rice			
	Wheat	HD-2967	10.0	25
Millet	Finger millet			
	Pearlmillet			
	Sorghum			
Oilseed	Groundnut			
	Mustard			
Pulses	Lentil			
	Lathyras			
Vegetable	Cauliflower			
Tuber	Sweet Potato			
Total				

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

Sample	No. of Samples in lakh	No. of Farmers in lakh	No. of Villages in lakh	Amount realized (Rs. in lakhs)	No. of Soil Health Cards issued (lakhs)
Soil	0.002	0.002	0.00039		
Water					
Plant					
Manure					0.002
Total					

11) Achievements under NICRA Project : N.A.

12) Achievements under ARYA Project : N.A.

13) Achievements under Rainwater Harvesting Structures : N.A.

14) Achievements under Pulses Seed Hub programme : N.A.

15) NEMA (New Extension Methodologies and Approaches) : N.A.

16) Achievements under CSISA (Cereal System Initiative for South Asia) project : N.A.

17) Achievements under NIFTD (National Initiatives for fodder technology demonstrations) : N.A.

18) Achievements under Swachhata Abhiyan Mission

S.No.	Items	No. of Programmes	No. of persons paticipated
1	Toilet maintenance		
2	Road, drain cleaning	02	30
3	Garbage disposal		
4	Door to door awareness	05	50
5	Awareness campaign	02	200
6	Nookkad Drama		
7	School Drama		
8	School rally		
9	Writing paining slogans	5	
10	Composting	2	10
11	Other		

19) Achievements under Aspirational District Scheme : N.A.

XVI Awards

----------XXXXXXX----------