

PROFORMA FOR PREPARATION OF ANNUAL REPORT (April-2017-March-2018)

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	70	1129	261	1390
Rural youths	17	151	44	195
Extension functionaries	18	427	90	517
Sponsored Training	02	100	-	100
Vocational Training	04	102	15	117
Total	111	1909	410	2319

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	75	30.00	
Pulses	200	80.00	
Cereals	25	6.10	
Vegetables	10	2.00	-
Other crops (Commercial)	15	6.00	
Hybrid crops			
Total	325	124.10	
Livestock & Fisheries	20	-	20
Other enterprises			
Total	20		20
Grand Total	345	124.10	20

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	08	25	25
Livestock	02	20	20
Various enterprises	01	05	05
Total	11	50	50
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total			

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	321	5957
Other extension activities	942	-
Total	1263	5957

5. **Mobile Advisory Services: N.A.**

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
	Text only							
	Voice only							
	Voice & Text both							
	Total Messages							
	Total farmers Benefitted							

6. **Seed & Planting Material Production**

	Quintal/Number	Value Rs.
Seed (q)	123.03	299189
Planting material (No.)	35050	0.00
Bio-Products (kg)		
Livestock Production (No.)		
Fishery production (No.)		

7. **Soil, water & plant Analysis**

Samples	No. of Beneficiaries	Value Rs.
Soil 517	153	75750.0
Water		
Plant		
Total 517	153	75750.0

8. **HRD and Publications**

Sr. No.	Category	Number
1	Workshops	05
2	Conferences	07
3	Meetings	18
4	Trainings for KVK officials	07
5	Visits of KVK officials	06
6	Book published	00
7	Training Manual	03
8	Book chapters	00
9	Research papers	05
10	Lead papers	02
11	Seminar papers	03
12	Extension folder	01
13	Proceedings	05
14	Award & recognition	10
15	On going research projects	06

KVK-SHAHJAHANPUR

ANNUAL PROGRESS REPORT

(April 2017 to March 2018)

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	05842-290002	05842-281414	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	vc.svpuat@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Narendra Prasad	-	9450416956	narendraprasadkvk@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 20th April, 2017)

S. N.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Cate-gory	Mobile No	Age	Email ID
1	Programme Co-ordinator	Dr. L.B.Singh	Head/Sr. Scientist	Agril Extension	37400-67000	55440.00 6 th pay	16.10.08	Permanent	Gen	9450155766	51	dr.lbsingh@gmail.com
2	Professor	Dr. Nutan Verma**	Professor	Plant Pathol.	37400-67000	67490.00 6 th pay	07.06.96	Permanent	Gen	9450444487	52	vermanutan65@gmail.com
3	SMS/Assitt Prof.	Dr. Narendra Prasad	Scientist	Agril. Extn.	37400-67000	57110.00 6 th pay	10.01.01	Permanent	OBC	9450416956	50	narendraprasadkvk@gmail.com
4	SMS/Assitt Prof.	Km. Vidya Gupta	Scientist	Home Science	15600-39100	31290.00 6 th pay	16.12.03	Permanent	OBC	9415366111	50	vidyaguptakvk@gmail.com
5	SMS/Assitt Prof.	Dr. S.K. Verma	Scientist	Horticulture	15600-39100	32020.00 6 th pay	24.06.08	Permanent	SC	9450234406	40	vermasant@gmail.com
6	SMS/Assitt Prof.	Dr. T.B.Yadav	Scientist	Animal Sci.	15600-39100	32850.00 6 th pay	28.06.08	Permanent	OBC	9411287939	54	drtbyadav16@gmail.com
7	SMS/Assitt Prof.	Dr. K.M.Singh	Scientist	Agronomy	15600-39100	32020.00 6 th pay	09.07.08	Permanent	Gen	9307015439	42	dhakrekms@rediffmail.com
8	Programme Assistant	Dr. Chandrapal	Programme Assistant (A.V.Aids)	Agril.Extn	9300-34800 (GP 4800)	72100.00 7 th pay	20.12.95	Permanent	Gen	9415482746	47	cpdeepali@gmail.com
9	Computer Programmer	Dr Manoj Kr. Mishra	Computer Programmer	Computer Science	9300-34800 (GP 4800)	68000 7 th pay	28.10.99	Permanent	Gen	9412423526	44	dr_mishra@in.com
10	Prog. Asstt / Farm Manager	Pushpraj Yadav	Programme Assistant (Soil/F.M.)	Soil Science	9300-34800 (GP 4600)	58600 7 th pay	15.12.04	Permanent	OBC	9452215713	45	pushpraj.y@gmail.com
11	Farm Manager	Anoop Singh	Programme Assistant (Farm Manager)	Agronomy	9300-34800 (GP 4200)	44600 7 th pay	31.07.07	Permanent	Gen	9458078489	42	anups671@gmail.com
12	Accountant / Superintendent	Naresh Singh Rathore	Accountant/O.S	-	9300-34800 (GP 4200)	47600 7 th pay	19.11.07	Permanent	Gen	8765649746	44	n.s.rathore8605@gmail.com
13	Stenographer	Sandeep Saxena	Jr.Steno	-	5200-20200 (GP 4200)	53600 7 th pay	02.09.95	Permanent	Gen	9450443210	47	-
14	Driver	Sonu Gupta	Driver/Mechanic	-	5200-20200 (GP 1900)	27600 7 th pay	27.07.07	Permanent	Gen	9411986427	42	-
15	Supporting Staff	Shubham Kumar Sagar	Office Attendant	-	5200-20200 (GP 1800)	18000 7 th pay	21.03.17	Permanent	SC	8874594581	20	-
16	Supporting Staff	Dinesh Kumar	Office Attendant	-	5200-20200 (GP 1800)	18000 7 th pay	24.03.17	Permanent	SC	9917260166	26	-

** Research scientist attached with K.V.K.

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.	Orchard/Agro-forestry	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 06	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
9	Irrigation channel	ICAR	-	1000R/m	826000	∴	-	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	156618	Working order
Mahindra Jeep	1997	-	-	Condemn
Hero Honda Super Splender UP27G-0146	April ,10	46159.00	33859	Working order
Tractor	2017	520863.00	-	Working order (New)
Rajdoot M/C	1996	-	-	Not Working
Rajdoot M/C	1997	-	-	Not Working

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 Convactor - 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 Chamalur	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-----
Aork borer ,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 assessorry & 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. No.	Date	Name and Designation of Participants	Salient Recommendation	Action Taken
1	03-Feb-2018	1. Dr. S. K.Sachan , DE, SVPUA&T, Meerut	For Management of child health use of Soy-products should be included in training programme.	This topic has been included in action plan 2018-19.
		2. Dr. A.S.Choudhery, Prof.(Hort.) SVPUA&T, Meerut		
		3. Dr. Hariom Katiyar, Asstt. Prof.(Hort.) SVPUA&T, Meerut		
1	03-Feb-2018	4. Dr. R. B. Singh , D.D. (Ag. Ext.) SPN	Farmers should be given training on various techniques and strategies to double their income.	To double the farmers income, training titles have been decided likewise in action plan 2018-19.
		5. Dr Atul Singh, Jt. Dir, UPCSR, SPN		
		6. Dr Rajendra Singh , CVO, SPN		
		7. Dr. R. P. Bharti, AD(Fisheries)		
		8.Smt. Rama Devi, Prog Women Farmer		
		9. Sri Jagdesawar Dayal, Prog Farmer		
		10. Smt Lilawati , Prog Women Farmer		
		11. Sri Rajesh Gangwar, Prog Farmer		
		12. Sri Om Prakash, Distt Manager , UPAgro		
		13. Sri Vijay Pal, SCDI		
1	03-Feb-2018	1. Dr. S. K.Sachan , DE, SVPUA&T, Meerut	Training and Demonstration should be included on intercropping of oil seed and pulses in sugarcane	In intercropping of oil seed and pulses in sugarcane Training programme and Demonstration have been included in action plan 2018-19.
		2. Dr. A.S.Choudhery, Prof.(Hort.) SVPUA&T, Meerut		
		3. Dr. Hariom Katiyar, Asstt. Prof.(Hort.) SVPUA&T, Meerut		
		4. Dr. R. B. Singh , D.D. (Ag. Ext.) SPN		
		5. Dr Atul Singh, Jt. Dir, UPCSR, SPN		
		6. Dr Rajendra Singh , CVO, SPN		
		7. Dr. R. P. Bharti, AD(Fisheries)		
		8.Smt. Rama Devi, Prog Women Farmer		
		9. Sri Jagdesawar Dayal, Prog Farmer		
		10. Smt Lilawati , Prog Women Farmer		
11. Sri Rajesh Gangwar, Prog Farmer				
12. Sri Om Prakash, Distt Manager , UPAgro				
13. Sri Vijay Pal, SCDI				

14. Sri Jai Ram Verma , DHO, SPN 15. Dr. L.B. Singh , Professor & Head, KVK, SPN	The use of water soluble fertilizers should be promoted among the farmers	Farmers are motivated for water soluble fertilizers use in Trainings and Kisan Gosthies in action plan 2018-19.
	Training on floriculture should be given to the farmers.	Training on floriculture has been included in action plan 2018-19.
	Training programme should be organized on preservation on fruits and vegetables	Six days vocational training programmes for rural youth on preservation on fruits and vegetables has been included in action plan 2018-19.
	Training on control of endoparasites of animals should be organized	It has been included in action plan 2018-19.
	For Management of major insects, pests and diseases, use of bio agents and bio-pesticides should be promoted on environment perspective.	Trainings on use of bio agents and bio pesticides have been included in action plan 2018-19.

2. DETAILS OF DISTRICT (2016-17)

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 Goetry

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 (Powayan Tehsil) Block 1. Sindhauli 2. Powayan 3. Banda 4. Khutar	<ol style="list-style-type: none"> 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 Tilhar Tehsil) Block- 1. Bhawalkhera 2. Dadraul 3. Negohi 4. Khudaganj 5. Tilhar	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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 (2016-17)

S. No.	Crop	Area (ha)	Production (qt.)	Productivity (qt. /ha)
1	Rice	200086	5424330	27.11
2	Maize	1603	17980	11.11
3	Jowar	875	7960	9.1
4	Bajra	3231	41250	12.77
5	Pulses (Kharif)	4306	2830	5.35
6	Urd	8258	47290	5.73
7	Moong	75	240	3.28
8	Ground nut	4711	71120	15.1
9	Sesum (Til)	7266	6480	0.89
10	Soybean	18	100	5.61
11	Wheat	253360	8890400	35.09
12	Barley	226	5570	24.66
13	Gram	5	30	5.98
14	Pea	548	5420	9.89
15	Lentil	62023	47580	7.67
16	Linseed	0	0	0
17	Mustard/Toria	8213	71250	8.68
18	Sugarcane	72466	42879000	591.72

2.5. Weather data

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)
		Maximum	Minimum	
April 2017	00	37.5	22.0	43
May	47.6	38.1	24.1	51
June	73.0	37.5	26.3	59
July	169.8	33.0	26.3	85
August	264.4	32.9	26.3	85
September	132.6	34.2	25.7	78
October	00	33.7	19.8	69
November	00	27.3	12.1	72
December	00	23.5	9.1	74
January -2018	00	16.8	6.5	80
February	22.0	25.6	11.4	65
March	00	32.4	21.8	61

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

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

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

2.7 Details of Operational area / Villages (2017-18)

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,Niyampur, Tikri,Madnapur, Chndokha, Khai khera, Mathana, Satwankhurd, Roshannagar, Guwari , Rampur Barkatpur ,Basak , Kakrakalan Daulatpur,Niwari.Khuta ria.Kapsera.Shahbajnar.,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, Mudia Kumiat, Bangwan,Barapur , Moorchha , Karnapur , Chak Kanhau , Paina khurd , Siklapur ,Mudiyapawar , Nagariya , Nahil , Puraina ,Dakia Hameednagar, Razau ,Chadari ,Benipur,,Dahar, Mirzapur, Muria Kurmiyat, 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

2.9 Intervention/ Programmes for the doubling the farmers income – during 2017-18

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
Sugarcane+ Toria	530	5.7	604.1	98700	100653	2.02	Sugarcane space-75 cm Toria- Broadcasted Flood irrigation
Sugarcane+ Lentil	580	5.8	662.2	99200	119326	2.20	Sugarcane space-75 cm Lentil- Broadcasted Flood irrigation
Sugarcane+ late mustard	510	5.3	580.7	97900	93731	1.96	Sugarcane space-75 cm late mustard - Broadcasted Flood irrigation
Sugarcane+ potato	600	170	1053.3	171600	175989	2.03	Sugarcane space-75 cm potato – One row Flood irrigation
Sugarcane+ Gram	590	5.0	673.3	97200	124989	2.29	Sugarcane space-75 cm Gram - Broadcasted Flood irrigation
Sugarcane+ Vegetable pea	680	160	733.3	124100	117889	1.95	Sugarcane space-75 cm Vegetable pea - Broadcasted Flood irrigation
Sugarcane+ Urd	650	5.2	640.1	98500	112733	2.14	Sugarcane space-75 cm Urd - Broadcasted Flood irrigation
Sugarcane+ Moong	540	4.9	623.3	97900	107789	2.10	Sugarcane space-75 cm Moong - Broadcasted Flood irrigation
Sugarcane+ Mentha oil	540	0.65	713.3	132600	102789	1.78	Sugarcane space-75 cm Mentha – Two lines Flood irrigation

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
Sugarcane+ Toria	730	8.5	840.5	103910	173455	2.66	Sugarcane trench method Toria- Two rows Irrigation in trench
Sugarcane+ Lentil	710	8.6	831.8	106600	263834	2.57	Sugarcane trench method Lentil - Two rows Irrigation in trench
Sugarcane+ late mustard	700	7.2	809.3	102750	164319	2.60	Sugarcane trench method late mustard - Two rows Irrigation in trench
Sugarcane+ potato	750	225	1350	185600	259900	2.40	Sugarcane trench method potato - Two rows Irrigation in trench
Sugarcane+ Gram	710	6.50	818.3	99700	170335	2.71	Sugarcane trench method Gram - Two rows Irrigation in trench
Sugarcane+ Vegetable pea	720	225	1136.7	135700	239411	2.76	Sugarcane trench method Vegetable pea - Two rows Irrigation in trench
Sugarcane+ Urd	720	7.90	856.7	102500	180211	2.76	Sugarcane trench method Urd - Two rows Irrigation in trench
Sugarcane+ Moong	710	6.50	802.5	99980	164845	2.65	Sugarcane trench method Moong - Two rows Irrigation in trench
Sugarcane+ Mentha oil	650	0.78	858	138200	144940	2.05	Sugarcane trench method Mentha - Two rows Irrigation in trench

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *
Sugarcane rate @ Rs 330/qt

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
Mono Cropping System(Kharif-Rabi-Zaid) -Livestock etc.							

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
Mono Cropping System(Kharif-Rabi-Zaid) -Livestock etc.							

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

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
Relay Cropping System(Kharif-Rabi-Zaid) -Livestock etc.							

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
Relay Cropping System(Kharif-Rabi-Zaid)-Livestock etc.							

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

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
Mixed Farming System(Kharif-Rabi-Zaid)-Livestock etc.							

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
Mixed Farming System(Kharif-Rabi-Zaid) -Livestock etc.							

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

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
IFS System(Kharif-Rabi-Zaid) - Livestock etc.							

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
IFS System(Kharif-Rabi-Zaid) - Livestock etc.							

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

Note- Same format may be used for OFT.

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2017-18

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
12	11	55	50	124	124.1	325	325

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	70	1400	1390	631	1263	9430	5957
Rural youth	17	17	180	195				
Extn. Functionaries	18	18	540	517				
Sponsored	02	06	100	217				
Total	107	111	2220	2319				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	123.03	NSC	20000	35050	56

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	Basmati Rice	Varietal evaluation of Basmati	03	03
	Timely Wheat	Varietal evaluation of timely shown wheat	03	03
	Late Wheat	Varietal evaluation of late shown wheat	03	03
	Marigold	Varietal evaluation of Marigold	03	03
	Pumpkin	Varietal evaluation of pumpkin	03	03
Integrated Pest Management	Sugarcane	Management of top borer	03	03
	-	-	-	-
	-	-	-	-
Integrated Crop Management	Sugarcane Intercropping	Intercropping in sugarcane with mustard	04	04
	Paddy	Management of Sheath blight	03	03
Small Scale Income Generation Enterprises	Value addition	Value addition of mango	05	05
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)- Household Food Security				
Total			30	30

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 non-clinical remedies in controlling repeat breeding	15	15
Evaluation of Breeds	-	-	-	-
Feed and Fodder management	-	-	-	-
Nutrition Management	Cattle	Assessment of urea molasses mineral block supplementation on milk production and	05	05

		reproduction performance in lactating cattle.		
Production and Management	-	-	-	-
Others (Pl. specify)	-	-	-	-
Total			20	20

Summary of technologies assessed under various enterprises by KVKs- NA

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- NA

Thematic areas	Crop	Name of the technology refined	No. of trials	No. of farmers
Integrated Nutrient Management	-	-	-	-
	-	-	-	-
Varietal Evaluation	-	-	-	-
	-	-	-	-
Integrated Pest Management	-	-	-	-
	-	-	-	-
Integrated Crop Management	-	-	-	-
	-	-	-	-
Integrated Disease Management	-	-	-	-
	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-
	-	-	-	-
Weed Management	-	-	-	-
	-	-	-	-
Resource Conservation Technology	-	-	-	-
	-	-	-	-
Farm Machineries	-	-	-	-
	-	-	-	-
Integrated Farming System	-	-	-	-
	-	-	-	-
Seed / Plant production	-	-	-	-
	-	-	-	-
Value addition	-	-	-	-
	-	-	-	-
Drudgery Reduction	-	-	-	-
	-	-	-	-
Storage Technique	-	-	-	-
	-	-	-	-
Others (Pl. specify)	-	-	-	-
	-	-	-	-
Total				

Summary of technologies refined under various livestock by KVKs-NA

Thematic areas	Name of the livestock enterprise	Name of the technology refined	No. of trials	No. of farmers
Disease Management	NA	NA	NA	NA
Evaluation of Breeds	NA	NA	NA	NA
Feed and Fodder management	NA	NA	NA	NA
Nutrition Management	NA	NA	NA	NA
Production and Management	NA	NA	NA	NA
Others (Pl. specify)	NA	NA	NA	NA
Total				

Summary of technologies refined under various enterprises by KVKs -NA

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

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

Varietal Evaluation

- Problem definition:** Continuous use of old variety
Technology Assessed: Varietal evaluation of timely sown wheat
Critical Input: Seeds of variety WH 1105 and HD 3086.

KVK, Shahjahanpur, Uttar Pradesh conducted on-farm trial to assess the use of timely sown variety WH 1105, HD 3086 of Wheat to compare with old variety PBW 343.

Table: Use of recent and old timely shown varieties of wheat

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- PBW 343 (Old variety)	03	41.35		38700	71742	33042	1.85
T2- WH 1105		43.73	5.75	38700	75872	37172	1.96
T3- HD 3086		44.90	8.50	38700	77502	39202	2.01

Interference & Feed back	HD 3086 performed better. This is due to bold seed size and more effective ear head.
Farmers Reaction	Positive
Any Other Information	Quality seed not easily available in market



2. Problem definition: Continuous use of old variety

Technology Assessed: Varietal evaluation of late sown wheat

Critical Input: Seeds of variety WH 1124 and DBW71.

KVK, Shahjahanpur, Uttar Pradesh conducted on-farm trial to assess the use of late sown variety WH 1124, DBW 71 of Wheat to compare with old variety PBW 226.

Table: Use of recent and old late shown varieties of wheat

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- PBW 226 (Old variety)	03	27.50		35600	47713	12113	1.34
T2- WH 1124		32.80	19.2	35600	56908	21308	1.59
T3- DBW 71		30.80	12.0	35600	53438	17838	1.50

Interference & Feed back	WH 1124 performed better to other. This is due to good seed size and more effective ear head.
Farmers Reaction	Positive
Any Other Information	Quality seed not easily available in market



3. Problem definition: Low Yield due to heavy blast and Continuous use of old/traditional variety

Technology Assessed: Varietal evaluation of Basmati Rice

Critical Input: Seeds of variety Pusa 1509 and Pusa Sugandha.

KVK, Shahjahanpur, Uttar Pradesh conducted on-farm trial to assess the use of Pusa Basmati1509, Pusa Sugandha of Basmati Rice to compare with old variety Pusa 1121.

Table: Use of recent and old variety of Basmati Rice.

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- Pusa 1121 (Old variety)	03	29.45	-	37750	85347	47597	2.26
T2- Pusa 1509		46.0	57.66	38900	125280	86380	3.22
T3- Pusa Sugandha (2511)		34.12	15.94	37600	95536	57936	2.54

Interference & Feed back	Pusa 1509 performed better. This is due to higher number of seed per spike and more effective ear head and its take less days in maturity.
Farmers Reaction	Positive
Any Other Information	Quality seed not easily available in market



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

Technology Assessed: Use of high yielding varieties of marigold.

Critical input: Seed of high yielding varieties of Pusa Narangi and Pusa Basanti.

KVK, Shahjahanpur, Uttar Pradesh conducted on-farm trial to assess the use of high yielding varieties Pusa Narangi and Pusa Basanti of marigold to compare with local variety Hawaii Orange.

Table: Production of local and high yielding varieties of marigold

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- Hawaii Orange (Local)	03	120.66	-	41200	168924	127724	4.10
T2-Pusa Narangi		184.00	52.49	49800	276000	226200	5.54
T3- Pusa Basanti		175.33	45.31	49800	262995	213195	5.28

Interference & Feed back	Variety Pusa Narangi is performing better as compare to Pusa Basanti and Hawaii Orange; this is due to varietal and suitability of agro climate.
Farmers Reaction	Orange colour variety having more demand.
Any Other Information	Non availability of quality seed



5. **Problem definition:** Low productivity of pumpkin due to use of local variety

Technology Assessed: Use of high yielding variety of pumpkin.

KVK, Shahjahanpur, Uttar Pradesh conducted on-farm trial to assess the use of high yielding variety Kashi Harit of pumpkin to compare with local variety CO-1.

Table: Production of local and hybrid varieties of pumpkin

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- CO-1 (Local)	03			Result Awaited			
T2- Kashi Harit							



Integrated Crop Management

6. **Problem definition:** Lower income from sugarcane monocrop

Technology Assessed: Intercrop of sugarcane

Critical Input: Sugarcane Seed and inter crop late sown mustard seed.

KVK, Shahjahanpur, Uttar Pradesh conducted on-farm trial to assess the effect of intercropping on net return in sugarcane. The intercropping system of planting of sugarcane as paired row at 3 ft spacing and growing late mustard between two pair had realized the net return of Rupees 8.5 Lakh/ha as compared to recommended practice with intercropping. Net return of Rs. 8.5 lakh / ha (100% increase in net return / ha)

Table: Performance of late mustard as intercrop in sugarcane-2017-178

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- Sugarcane sole crop	04	00	00	00	00	00	00
T2- Sugarcane + Mustard		10.48	100	9290	41920	32630	4.51

* Sugarcane crop presently standing in the field.

Interference & Feed back	Late sown mustard increased the additional income of farmers.
Farmers Reaction	Inter crop did not suppressed main sugarcane crop due to line sowing and additional man days increase in cultivation of intercrop, so that farmers earned more family income.
Any Other Information	Lack of awareness about Late sown mustard seed and line sowing on trench.



PEST AND DISEASE MANAGEMENT

7- Problem definition: Low yield of paddy due to incidence of Sheath Blight.

Technology Assessed: Management of Sheath Blight seed treatment and spray chemical.

Critical Input: Carbendazim @ 2.5 gm/kg seed + two Spray Propiconazole @ 1.0 lit /ha

Paddy is an important cereal crop of mid western plane zone of U.P. However, the the productivity of paddy is badly affected by incidence and severity of Sheath Blight disease in distt Shahjahanpur. To assess the performance of management technology of the problem and OFT was conducted at three locations of farmer's field in 1.20 ha area.. The performance of OFT conducted revealed that management technology used can increase by 33.5 % yield over famer's practice.

Table: Effect of Soil application, Seed Treatment and spray chemical on incidence and severity of Sheath Blight diseases in paddy

Technology Option	No. of trials	Disease Incidence (%)	Yield (q/ha)	% Increase in yield	Cost of cultivation (Rs./ha)	Gross Return (Rs./ha)	Net Return (Rs./ha)	B:C Ratio
T1-Farmers Practices Carbendazim @ 1.0 kg/ha foliar spray	03	8.5	42.4	-	46522	67840	21318	1.45
T2- Seed Treatment Carbendazim @ 2.5 gm/kg seed + two Spray Propiconazole @ 1.0 lit /ha		2.5	56.6	33.5	47800	90560	42760	1.89

Interference & Feed back	The technology reduced %incidence of Sheath Blight by6% as compared to Farmer's practice.The technology is good.
Farmers Reaction	Technology is good and easy to adopt.
Any Other Information	The technology can be taken under FLD.



Sheath Blight Infected Crop



Healthy Crop

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

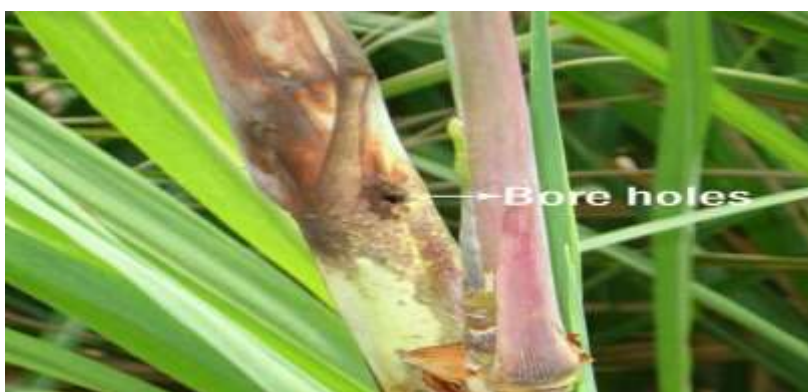
Critical Input: Cartap hydro chloride 4G @ 25 kg/ha + Trichocard 5X3 /ha

Technology Assessed: Sugarcane is an important cash crop of mid western plain zone of U.P. In distt Shahjahanpur infestation of Top Borer badly affect the productivity of Sugarcane. To assess the performance of management technology of the problem an OFT was taken at farmer's field at three locations (1.20 ha area) . The performance of OFT conducted revealed that the use of cartop 4g and trichocard can increase 19.65% yield over farmers practice

Table: Effect of Cartap 4g and Ttrichocard on infestation of top borer in sugarcane.

Technology Option	No. of trials	Top borer infestation NMC (%)	Yield (q/ha)	% Increase in yield	Cost of cultivation (Rs./ha)	Gross Return (Rs./ha)	Net Return (Rs./ha)	B:C Ratio
<i>T1-Farmers Practices (Chloropyriphos @ 3.5 lit/ha + Phorate @ 25 kg./ha)</i>	03	10.5	1043	-	96500	263340	166840	2.72
<i>T2-Cartap hydro chloride 4G @ 25 kg/ha + Trichocard 5X3 /ha</i>		1.0	1248	19.65	99500	296415	196915	2.97

Interference & Feed back	Demonstrated technology reduced percentage of NMC by 9.5%
Farmers Reaction	Technology is good
Any Other Information	Tricho card handling needs training



Top Borer Infested cane

9. Value Addition

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, aam papad 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 9: Assessment of value addition of mango

<i>Technology Option</i>	<i>No. of trials</i>	<i>Product Kg/qt</i>	<i>Gross Cost Rs.</i>	<i>Gross Return Rs.</i>	<i>Net Returns Rs.</i>	<i>% increase in net return</i>	<i>B:C Ratio</i>
<i>T1-Farmers Practices (Mango pickle only)</i>		138	3864	4830	966	-	1.25
<i>T2-</i>	05						
a. Preparation of mango squash		192	9216	17280	8064	735	1.88
b. Aam Papad		19	2736	4720	1984	105	1.73
c. Amchour		19	1428	3522	2094	117	2.47

Interference & Feed back	Demonstrated technology increased net return over farmers practice.
Farmers Reaction	Technology is good
Any Other Information	-

10. LIVE STOCK ENTERPRISES

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 breeding in buffaloes 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.

Critical Input: mineral mixture @50g/day/animal up to 45 day + Receptol 5 ml

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)	15	80
Use concentrate @ 2.5kg & mineral mixture @50g/day/animal up to 45 day (recommended practice)		20
Use concentrate @ 2.5kg & mineral mixture @50g/day/animal up to 45 day + Receptol 5 ml (72-96 hrs before AI or Natural breeding) recommended practice		Nil
Interference & Feed back	Demonstrated technology increased net return over farmers practice.	
Farmers Reaction	Positive	
Any Other Information	-	



11. ON NUTRIENT MANAGEMENT

Problem definition: Low milk yield and infertility due to imbalance application of nutrients

Technology Assessed or Refined (as the case may be): Use of UMMB (Urea Molasses Mineral Block) supplementation in cattle

KVK, Shahjahanpur conducted on-farm trial to find out appropriate nutrient management practice to enhance the milk yield and fertility of cattle. The assessed practice of UMMB (Urea Molasses Mineral Block) supplementation (licking) @ 8% (300 to 400gram)/day/animal was found to be better with 30.77 % increase in milk yield, 35 days prior in estrus cycle and 40% increase in conception.

Critical Input: UMMB supplementation(Licking) @300 to 400g/day/animal

Table Effect of UMMB (Urea Molasses Mineral Block) supplementation (licking) in enhancing milk yield and fertility in cattle.

Technology Option	No.of trials	Estrus cycle(day) after parturation	Conception rate %	Milk Yield (Lit./day/ani)	Increase in Yield (%) over farmer's practice
T1: Use of choker and common salt (Farmers Practice)	05	160	20	5.20	--
T1+UMMB supplementation(Licking) @300 to 400g/day/animal (Recommended Practice)		125	60	6.80	30.77

Interference & Feed back	Demonstrated technology increased net return over farmers practice.
Farmers Reaction	Problem incurred for using this UMB Brix, that's why famers like less
Any Other Information	In scarcity condition it is useful..



II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2017-18 and recommended for large scale adoption in the district

S. No	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	Sesamum Kharif - 2017	ICM	HYV Seed (GT 03) @ 5 kg/ha carbendazim@ 0.50kg/ha Bentonite Sulphur @ 25 kg/ha, Micronutrient @ 12.5 kg/ha, Mancozeb + carbendazim @ 0.50kg/ha Quanalphose @ 1.25 kg/ha,	Training, Demonstraion, Field day, Field visit, Print and Electronic media,	11	25	10.00
2	Mustard Rabi 2017-18	ICM	HYV Seed (CS 56) 5.0 kg/ha B.Sulphur @ 25 Kg/ha., Mancozeb+carbendazim @ 1.250kg/ha Imidachloprid @ 0.25L/ha	Training, Demonstraion, Field day, Field visit, Print and Electronic media,	20	50	20.00
3	Blackgram Kharif - 2017	ICM	HYV (PU 31) seed @ 15 kg/ha, Imizathyphur @ 2.5 Unitr/ha B.Sulphur @ 25 Kg/ha., Imidachloprid @ 0.250 L/ha, Quanalphose @ 2.5 L/ha	Training, Demonstraion, Field day, Field visit, Print and Electronic media,	16	25	10
4	Greengram Zaid 2017	ICM	HYV Seed (IPM 02-03) @ 20 kg/ha, B. Sulphur @ 25 kg/ha, Imizathyphur @ 2.5 Unit/ha, Micronutrient 12.5 kg/ha, Imidachlorprid @ 0.25 L/ha	Training, Demonstraion, Field day, Field visit, Print and Electronic media,	10	25	10
5.	Greengram Kharif 2017	ICM	HYV Seed (IPM 02-03) @ 20 kg/ha, B. Sulphur @ 25 kg/ha, Imizathyphur @ 2.5 Unit/ha, Micronutrient 12.5 kg/ha, Imidachlorprid @ 0.25 L/ha	Training, Demonstraion, Field day, Field visit, Print and Electronic media,	10	25	10.00
6.	Lentil Rabi 2017-18	ICM	HYV Seed (PL-08)35 kg/ha Carbendazim+Mancozeb @ 1.250 kg/ha Imidachloprid @ 0.250 L/ha Sulpher @ 2.5 kg/ha	Training, Demonstraion, Field day, Field visit, Print and Electronic media,	41	125	50

FLD Other Than							
7	Paddy (AZ-6444 gold)	ICM	Bispyrabic Sodium +MSM	Training, Demonstraion, Field day, Field visit, Print and Electronic media,	05	05	2.00
8	Paddy (PR-113)	IPM (BPH)	DDVP @ 500ml+ Imidacloprid @ 500 ml/ha	Training, Demonstraion, Field day, Field visit, Print and Electronic media	03	05	2.00
9	Wheat (HD 2967)	ICM	Clodinaphof+MSM	Training, Demonstraion, Field day, Field visit, Print and Electronic media	03	05	2.00
10	Potato (K.Pukhraj)	IDM	Mancozeb @ 2.5 kg /ha + Ridomil (Mancozeb 64% + Metalaxyl 4%) @1.25kg/ha	Training, Demonstraion, Field day, Field visit, Print and Electronic media	01	05	2.00
11	Sugar Cane+ Pulse (Lentil)	ICM	Inter crop Seed (PL-08) @ 20 kg/ha, Carbendazim @ 0.250 kg/ha	Training, Demonstraion, Field day, Field visit, Print and Electronic media	03	05	2.00
12	Sugar cane+ Oilseed (Torja)	ICM	Inter crop Seed (CS 56) @ 1.0 kg/ha, Carbendazim @ 0.25 kg/ha	Training, Demonstraion, Field day, Field visit, Print and Electronic media	04	05	2.00
13	Brinjal (Kashi Sandesh-Round)	ICM	Mancozeb + Carbendazim @ 2.50 klg/ha, Micronutrients (UP Grade) @ 25.00 kg/ha	Training, Demonstraion, Field day, Field visit, Print and Electronic media	02	05	1.00
14	Chilli (Kashi Anmol)	ICM	Mancozeb + Carbendazim @ 2.50 kg/ha, Micronutrients (UP Grade) @ 25.00 kg/ha	Training, Demonstraion, Field day, Field visit, Print and Electronic media	4	05	1.00
15	Harvesting of paddy and wheat crop	Drudgery	Use of improved farm implements	Training, Demonstraion, Field day, Field visit,	05	10	0.1

b. Details of FLDs implemented during 2017-18

Sl. No.	Crop	Themati c area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Sesamum	ICM	HYV Seed (GT 03) @ 5 kg/ha carbendazim@ 0.50kg/ha Bentonite Sulphur @ 25 kg/ha, Micronutrient @ 12.5 kg/ha, Mancozeb + carbendazim@ 0.50kg/ha Quanalphose @ 1.25 kg/ha,	Kharif - 2017	10.00	10.00	01	24	25	-
2	Mustard	ICM	HYV Seed (CS 56) 5.0 kg/ha	Rabi 2017-18	20.00	20.00	04	46	50	-

			B.Sulphur @ 25 Kg/ha., Mancozeb+carbendazim @ 1.250kg/ha Imidachloprid @ 0.25L/ha							
3	Blackgram	ICM	HYV (PU 31) seed @ 15 kg/ha, Imizathyphur @ 2.5 Unitr/ha B.Sulphur @ 25 Kg/ha., Imidachloprid @ 0.250 L/ha, Quanalphose @ 2.5 L/ha	Kharif - 2017	10.00	10.00	01	24	25	-
4	Greengram	ICM	HYV Seed (IPM 02-03) @ 20 kg/ha, B. Sulphur @ 25 kg/ha, Imizathyphur @ 2.5 Unit/ha, Micronutrient 12.5 kg/ha, Imidachlorprid @ 0.25 L/ha	Zaid 2017	10.00	10.00	02	23	25	-
5	Greengram	ICM	HYV Seed (IPM 02-03) @ 20 kg/ha, B. Sulphur @ 25 kg/ha, Imizathyphur @ 2.5 Unit/ha, Micronutrient 12.5 kg/ha, Imidachlorprid @ 0.25 L/ha	Kharif 2017	10.00	10.00	01	24	25	-
6	Lentil	ICM	HYV Seed (PL-08) 35 kg/ha Carbendazim+Mancozeb @ 1.250 kg/ha Imidachloprid @ 0.250 L/ha Sulpher @ 2.5 kg/ha	Rabi 2017-18	50.00	50.00	07	118	125	-
FLD Other Than										
7	Paddy (AZ 6444 gold)	ICM	Bispyrabic Sodium +MSM	Kharif 2017	2.00	2.00	01	04	05	-
8	Paddy (PR-113)	IPM (BPH)	DDVP @ 500ml+ Imidacloprid @ 500 ml/ha	Kharif - 2017	2.00	2.00	01	04	05	-
9	Wheat (HD 2967)	ICM	Clodinaphof+MSM	Rabi 2017-18	2.00	2.00	01	04	05	-
10	Potato (K-pukhraj)	IDM	Mancozeb @ 2.5 kg /ha + Ridomil (Mancozeb 64% + Metalaxyl 4%)	Rabi 2017-18	2.00	2.00	01	04	05	-
11	Sugar Cane+ Pulse (Lentil)	ICM	Inter crop Seed (PL-08) @ 20 kg/ha, Carbendazim @ 0.250 kg/ha	Rabi 2017-18	2.00	2.00	00	05	05	-
12	Sugar cane+ Oilseed (Toria)	ICM	Inter crop Seed (Pusa 26) @ 1.0 kg/ha,	Rabi 2017-18	2.00	2.00	01	04	05	-
13	Brinjal (Kashi Sandesh-	ICM	Mancozeb + Carbendazim @ 2.50 klg/ha, Micronutrients (UP Grade) @ 25.00 kg/ha	Kharif 2017	1.00	1.00	00	05	05	-

	Round)									
14	Chilli (Kashi Anmol)	ICM	Mancozeb + Carbendazim @ 2.50 kg/ha, Micronutrients (UP Grade) @ 25.00 kg/ha	Rabi 2017-18	1.00	1.00	00	05	05	-
15	Harvesting of paddy and wheat crop	Drudgery reduction	Use of improved farm implements (Naveen Daranti)	Training, Demonstraion, Field day, Field visit, Print and Electronic media	0.10	0.10	04	06	10	-

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					
Sesamum	Kharif - 2017	Irrigated	Sandy Loam	L	L	M	Wheat	26.07.2017 to 08.08.2017	17.10.2017 to 24.10.2017	566.8	37
Mustard	Rabi 2017-18	Irrigated	Sandy Loam	L	L	M	Fellow/Paddy	28.10.2017 to 12.11.2016	11.03.2018 to 21.03.2018	22.0	04
Blackgram	Kharif - 2017	Irrigated	Sandy Loam	L	L	M	Wheat	25.07.2017 to 03.08.2017	22.10.2017 to 28.10.2017	566.8	37
Greengram	Zaid 2017	Irrigated	Sandy Loam	L	L	M	Paddy/GNut/black garm	25.03.2017 to 04.04.2017	05.06.2017 to 14.06.2017	120.6	08
Greengram	Kharif 2017	Irrigated	Sandy Loam	L	L	M	Paddy/GNut	25.07.2017 to 10.08.2017	08.10.2017 to 29.10.2017	566.8	37
Lentil	Rabi 2017-18	Irrigated	Sandy Loam	L	L	M	Paddy	02.11.2017 to 17.11.2017	16.03.2018 to 29.03.2018	22.0	04
FLD Other Than											
Paddy	Kharif- 2017	Irrigated	Sandy Loam	L	L	M	Wheat	28.06.2017 to 07.07.2017	26-28.10.17	566.8	37
Paddy (BPH Mgt.)	Kharif- 2017	Irrigated	Sandy Loam	L	L	M	Wheat	30.06.2017 to 12.07.17	15-16.11.17	566.8	37
Wheat	Rabi 2017-18	Irrigated	Sandy Loam	L	L	M	Paddy	19.11.2017 to 25.11.17	04.10.04.18	22.0	04
Potato (late blight Mgt.)	Rabi 2017-18	Irrigated	Sandy Loam	L	L	M	Blackgram	08.11.2017 to 12.11.17	15-18.03.18	22.0	04
Sugar Cane+ Pulse (Lentil)	Rabi 2017-18	Irrigated	Sandy Loam	L	L	M	Paddy	05.11.2017 to 16.11.17	18-20.03.18	22.0	04

Sugar cane+ Oilseed (Toria)	Rabi 2017-18	Irrigated	Sandy Loam	L	L	M	Paddy	10.11.2017 to 12.11.2017	10-13.03.18	22.0	04
Brinjal	Kharif 2017	Irrigated	Sandy Loam	L	L	M	Wheat	14.07.2017 to 20.07.2017	04.10.17 to 26.11.17	00	00
Chilli	Rabi 2017-18	Irrigated	Sandy Loam	L	L	M	Paddy	01.02.2018 to 16.02.2018	Result awaited	00	00
Harvesting of paddy crop	Kharif 2017	Irrigated	Sandy Loam	L	L	M	Wheat	28.06.2017 to 06.07.2017	01-10.11.17	566.8	37
Harvesting of Wheat crop	Rabi 2016-17	Irrigated	Sandy Loam	L	L	M	Paddy	15.11.2016 to 10.12.16	05-15.04.17	22.0	04

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Use of sulphur and Boron increased the yield and oil content in ground nut and til.
2	In urd chemical weeding is more effective than mechanical weeding.
3	Use of PSB culture increased the yield in pulses

Farmers' reactions on specific technologies

S. No	Feed Back
1	The reaction was positive. Sulphur and Boron application in groundnut and til increased the yield
2	Boron and sulphur application increased the oil content.
3	Chemical weeding is more profitable than mechanical weeding.

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	08	April 2017 to March 18	384	
2	Farmers Training	04	April 2017 to March 18	65	
3	Media coverage	05	April 2017 to March 18	Mass	
4	Training for extension functionaries	02	April 2017 to March 18	58	

Performance of Frontline demonstrations
Frontline demonstrations on oilseed crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Groundnut																		
Sesame	ICM	HYV Seed (GT 03) @ 5 kg/ha carbendazim@ 0.50kg/ha Bentonite Sulphur @ 25 kg/ha, Micronutrient @ 12.5 kg/ha, Mancozeb + carbendazim@ 0.50kg/ha Quanalphose @ 1.25 kg/ha,	GT 03	25	10.0	8.40	6.30	7.47	4.25	75.0	18200	56025	37825	3.07	13200	31875	18675	2.41
Mustard	ICM	HYV Seed (CS 56) 5.0 kg/ha B.Sulphur @ 25 Kg/ha., Mancozeb+carbendazim @ 1.250kg/ha Imidachlopid @ 0.25L/ha	CS 56	50	20	21.7	17.10	19.39	11.5		25300	77560	52260	3.07	23100	46000	22900	1.99
Toria																		

Linseed																			
Sunflower																			
Soybean																			

Frontline demonstration on pulse crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)			Check	% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)				
						Demo					Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)	
						High	Low	Average											
Pigeonpea																			
Blackgram	ICM	HYV (PU 31) seed @ 15 kg/ha, Imizathyphur @ 2.5 Unit/ha B.Sulphur @ 25 Kg/ha., Imidachloprid @ 0.250 L/ha, Quanalphose @ 2.5 L/ha	PU 31	25	10	15.20	12.10	14.01	7.30	91.92	27200	75654	48454	1.78	23100	39420	16320	1.71	
Greengram Zaid-2017	ICM	HYV Seed (IPM 02-03) @ 20 kg/ha, B. Sulphur @ 25 kg/ha, Imizathyphur @ 2.5 Unit/ha, Micronutrient 12.5 kg/ha, Imidachlorprid @ 0.25 L/ha	IPM 02-03	25	10.00	10.60	8.70	9.73	6.60	47.42	27100	54488	27388	2.01	22150	36960	14810	1.67	

Greengram Kharif 2017	ICM	HYV Seed (IPM 02-03) @ 20 kg/ha, B. Sulphur @ 25 kg/ha, Imizathyphur @ 2.5 Unit/ha, Micronutrient 12.5 kg/ha, Imidachlorprid @ 0.25 L/ha	IPM 02-03	25	10.00	12.70	10.30	11.86	7.53	57.50	25300	66120	40820	2.61	21200	41980	20780	1.98
Chickpea(Gram)																		
Fieldpea																		
Lentil	ICM	HYV Seed (PL-08) 35 kg/ha Carbendazim+Mancozeb @ 1.250 kg/ha Imidachloprid @ 0.250 L/ha Sulpher @ 2.5 kg/ha	PL-08	125	50.0	25.30	16.40	21.64	12.59	71.88	80800	91970	61170	2.99	25300	53508	28203	2.11
Horsegram																		

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)			Check	% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo					Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Cereals																			
Paddy																			
Kharif 17 Paddy- PR-113,	IPM (BPH Management)	DDVP 500 ml/ha + Imidachloprid 500ml/ha.	05	2.0	57.5	55.7	56.72	43.72	29.73	% infestation 1.5	% infestation 10.5	46500	90752	44252	1.95	45465	69952	24487	1.53
Blackgram																			

Waterlogged Situation																			
Coarse Rice																			
Kharif 2017 (AZ 6444 Gold)	IWM	Variety- AZ6444 Gold Bispyrabic Sodium 2.5 unit /ha	05	02	73.10	69.90	71.54	45.50	57.92	No Weed	5-6 weed per meter	40250	110887	70637	2.75	39170	70215	31045	1.79
Scented Rice																			
Wheat	IWM	Variety-HD-2967 Chlodinaphop + MSM 2.5 unit/ha	05	2.00	46.90	40.10	44.70	32.30	38.39	No Weed	10-12 weed per meter	38100	77555	39455	2.04	36600	56041	19441	1.53
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																			
	ICM	Carbendazim+ Mancozeb @ 2.5	05	1.0					Result awaited										

		kg/ha, Micronutrient @ 25 kg/ha (UP Grade)																	
Brinjal																			
	ICM	Carbendazim+ Mancozeb @ 2.5 kg/ha, Micronutrient @ 25 kg/ha (UP Grade)	05	1.0	495.68	469.35	481.49	384.37	25.27	Avg no of fruits per plant 08	Avg no of fruits per plant 05	62600	288894	226294	4.61	54200	192105	137985	3.54
Vegetable pea																			
Softgourd																			
Okra																			
Colocasia (Arvi)																			
Broccoli																			
Cucumber																			
Onion																			
Pumpkin																			
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																			

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

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	Other parameter		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																			
Buffalo																			
	Disease Mang.	Deworming (Albendazole 3g)	25	50	Nil- Worm infestation	94% Worm infestation	100	6.69 Lit./day	6.15 Lit/day	185.40	267.60	82.20	1.44	184.20	246.00	61.80	1.33		
	Nutrient Management	Mineral mixture Feeding	05	10	8.10 lit/day	6.25 lit/day	29.60	6Repond. Within 120 days after parturation	1Repond. Within 120 days after parturation	191.40	324.00	132.60	1.69	185.40	250.00	64.60	1.34		
Buffalo	Feed & Fodder Management	Feeding of urea treated paddy straw	05	10	Concentrate feeding Avg.3.00 kg/ani/day	Concentrate feeding Avg.4.00 kg/ani/day	25.00	Milk produ. 7.50 Lit/day/ animal	Milk produc. 7.30 Lit/day/ animal	212.80	300.00	87.20	1.41	232.80	292.00	59.20	1.25		

Note- Average milk production Lit/day Concentrate price: Rs 22.00/kg
Average Cost of production Rs./day
Milk price Rs.35 .00/Lit

FLD on Fisheries- NA

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FLD on Other enterprises- NA

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																	

FLD on Women Empowerment-NA

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

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	

FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Q/ha)		% change in yield	Other parameters		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)	

FLD on Demonstration details on crop hybrids -NA

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

Vegetable crop												
Fruit crop												
Other (specify)												

Home Science FLD other than oilseed & pulses (Rabi, 2016-17, Kharif – 17)

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 Rabi 2016-17	Improved sickle (Naveen)	05	0.05	95	84	13.09	13	15	2	2X150=300
Paddy cutting Kharif -2017	Improved sickle (Naveen)	05	0.05	110	95	15.78	11	13	2	2X150=300

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	01	17	0	17	03	0	03	20	0	20
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation	01	20	0	20	0	0	0	20	0	20
Seed production										
Nursery management										
Integrated Crop Management	02	37	0	37	03	0	03	40	0	40
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	04	74	0	74	06	0	06	80	0	80
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables	01	19	0	19	01	0	01	20	0	20
Nursery raising										
Exotic vegetables										
Export potential vegetables	01	16	0	16	04	0	04	20	0	20
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	02	35	0	35	05	0	05	40	0	40
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	01	17	0	17	03	0	03	20	0	20
Cultivation of Fruit										
Management of young plants/orchards	01	13	0	13	07	0	07	20	0	20
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	02	30	0	30	10	0	10	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	01	19	0	19	01	0	01	20	0	20
Processing and value addition										
Others (pl specify)										
Total (d)	01	19	0	19	01	0	01	20	0	20
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)	05	84	0	84	16	0	16	100	0	100
III Soil Health and Fertility Management										
Soil fertility management	01	11	0	11	09	0	09	20	0	20
Integrated water management										
Integrated Nutrient Management	01	19	0	19	01	0	01	20	0	20
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing	01	15	0	15	05	0	05	20	0	20
Others (pl specify)										
Total	03	45	0	45	15	0	15	60	0	60
IV Livestock Production and Management										
Dairy Management	01	16	0	16	04	0	04	20	0	20
Poultry Management	02	21	01	22	08	0	08	29	01	30
Piggery Management										
Rabbit Management										
Animal Nutrition Management	01	17	02	19	01	0	01	18	02	20
Disease Management	02	25	13	38	0	02	02	25	15	40
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total	06	79	16	95	13	02	15	92	18	110
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	01	0	20	20	0	0	0	0	20	20
Design and development of low/minimum cost diet	01	0	16	16	0	04	04	0	20	20
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	01	0	17	17	0	03	03	0	20	20
Value addition										
Women empowerment										
Location specific drudgery reduction technologies	01	0	15	15	0	05	05	0	20	20
Rural Crafts										
Women and child care	01	0	06	06	0	14	14	0	20	20
Others (pl specify)										
Total	05		74	74	0	26	26	0	100	100
VI Agril. Engineering										
Farm Machinery 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	05	96	0	96	04	0	04	100	0	100
Integrated Disease Management	01	19	0	19	01	0	01	20	0	20
Bio-control of pests and diseases	01	17	0	17	03	0	03	20	0	20

Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	07	132	0	132	08	0	08	140	0	140
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	01	20	0	20	0	0	0	20	0	20
Organic manures 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	39	0	39	01	0	01	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	32	453	90	543	59	28	87	512	118	630

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	01	20	0	20	0	0	0	20	0	20
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation	01	14	0	14	06	0	06	20	0	20
Seed production										
Nursery management										

Integrated Crop Management	01	20	0	20	0	0	0	20	0	20
Soil & water conservatioin										
Integrated nutrient management	02	40	0	40	0	0	0	40	0	40
Production of organic inputs										
Others (pl specify)										
Total	05	94	0	94	06	0	06	100	0	100
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	01	16	04	20	0	0	0	16	04	20
Off-season vegetables										
Nursery raising	01	14	05	19	01	0	01	20	0	20
Exotic vegetables	01	19	0	19	01	0	01	20	0	20
Export potential vegetables										
Grading and standardization										
Protective cultivation	01	18	02	20	0	0	0	18	02	20
Others (pl specify)										
Total (a)	04	67	11	78	02	0	02	69	11	80
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	01	09	11	20	0	0	0	09	11	20
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify) Cultivation tech. of minor fruits	01	20	0	20	0	0	0	20	0	20
Total (b)	02	29	11	40	0	0	0	29	11	40
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify) Cultivation tech. of marigold	01	17	0	17	03	0	03	20	0	20
Total (c)	01	17	0	17	03	0	03	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	01	20	0	20	0	0	0	20	0	20
Processing and value addition										
Others (pl specify)										
Total (f)	01	20	0	20	0	0	0	20	0	20
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)	08	133	22	155	05	0	05	138	22	160
III Soil Health and Fertility Management										
Soil fertility management	02	21	0	21	19	0	19	20	0	20
Integrated water management	01	18	0	18	02	0	02	20	0	20
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers	02	35	0	35	05	0	05	40	0	40
Soil and Water Testing										

Others (pl specify)										
Total	05	74	0	74	26	0	26	100	0	100
IV Livestock Production and Management										
Dairy Management										
Poultry Management	01	17	0	17	03	0	03	20	0	20
Piggery Management										
Rabbit Management										
Animal Nutrition Management	01	18	0	18	02	0	02	20	0	20
Disease Management	03	54	01	55	05	0	05	59	01	60
Feed & fodder technology	01	18	0	18	02	0	02	20	0	20
Production of quality animal products										
Others (pl specify)										
Total	06	107	01	108	12	0	12	119	01	120
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	01	0	20	20	0	0	0	0	20	20
Minimization of nutrient loss in processing	01	0	20	20	0	0	0	0	20	20
Processing and cooking	01	0	20	20	0	0	0	0	20	20
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	02	0	35	35	0	05	05	0	40	40
Women empowerment										
Location specific drudgery reduction technologies	01	0	20	20	0	0	0	0	20	20
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	06	0	115	115	0	05	05	0	120	120
VI Agril. Engineering										
Farm Machinery 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	03	56	0	56	04	0	04	60	0	60
Integrated Disease Management	01	15	0	15	05	0	05	20	0	20
Bio-control of pests and diseases	01	20	0	20	0	0	0	20	0	20
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	05	91	0	91	09	0	09	100	0	100
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	01	18	0	18	02	0	02	20	0	20
Organic manures production	02	34	0	34	06	0	06	40	0	40
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	03	52	0	52	08	0	08	60	0	60
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	38	551	138	689	60	05	71	617	143	760

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	02	37	0	37	03	0	03	40	0	40
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation	02	34	0	34	06	0	06	40	0	40
Seed production										
Nursery management										
Integrated Crop Management	03	57	0	57	03	0	03	60	0	60
Soil & water conservatioin										
Integrated nutrient management	02	40	0	40	0	0	0	40	0	40
Production of organic inputs										
Others (pl specify)										
Total	09	168	0	168	12	0	12	180	0	180
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	01	16	04	20	0	0	0	16	04	20
Off-season vegetables	01	19	0	19	01	0	01	20	0	20
Nursery raising	01	14	05	19	01	0	01	15	05	20
Exotic vegetables	01	19	0	19	01	0	01	20	0	20
Export potential vegetables	01	16	0	16	04	0	04	20	0	20
Grading and standardization										
Protective cultivation	01	18	02	20	0	0	0	18	02	20
Others (pl specify)										
Total (a)	06	102	11	113	07	00	07	109	11	120
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	01	17	0	17	03	0	03	20	0	20

Cultivation of Fruit	01	09	11	20	0	0	0	09	11	20
Management of young plants/orchards	01	13	0	13	07	0	07	20	0	20
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify) cultivation of minor fruits	01	17	0	17	03	0	03	20	0	20
Total (b)	04	56	11	67	13	00	13	69	11	80
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify) Advanced cultivation of marigold	01	17	0	17	03	0	03	20	0	20
Total (c)	01	17	0	17	03	0	03	20	0	20
d) Plantation crops										
Production and Management technology	01	19	0	19	01	0	01	20	0	20
Processing and value addition										
Others (pl specify)										
Total (d)	01	19	0	19	01	0	01	20	0	20
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology	01	20	0	20	0	0	0	20	0	20
Processing and value addition										
Others (pl specify)										
Total (f)	01	20	0	20	0	0	0	20	0	20
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)	13	214	22	236	24	0	24	238	22	260
III Soil Health and Fertility Management										
Soil fertility management	03	32	0	32	28	0	28	60	0	60
Integrated water management	02	37	0	37	03	0	03	40	0	40
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers	02	35	0	35	05	0	05	40	0	40
Soil and Water Testing	01	15	0	15	05	0	05	20	0	20
Others (pl specify)										
Total	08	119	0	119	41	0	41	160	0	160
IV Livestock Production and Management										
Dairy Management	01	16	0	16	04	0	04	20	0	20
Poultry Management	03	38	01	39	11	0	11	49	01	50
Piggery Management										
Rabbit Management										
Animal Nutrition Management	02	35	02	37	03	03	0	38	02	40
Disease Management										
Feed & fodder technology	05	79	14	93	05	02	07	84	16	100
Production of quality animal products	01	18	0	18	02	0	02	20	0	20
Others (pl specify)										
Total	12	186	17	203	25	02	27	211	19	230
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	01	0	20	20	0	0	0	0	20	20
Design and development of low/minimum cost diet	01	0	16	16	0	04	04	0	20	20
Designing and development for high nutrient efficiency diet	01	0	20	20	0	0	0	0	20	20

Minimization of nutrient loss in processing	01	0	20	20	0	0	0	0	20	20
Processing and cooking	01	0	20	20	0	0	0	0	20	20
Gender mainstreaming through SHGs										
Storage loss minimization techniques	01	0	17	17	0	03	03	0	20	20
Value addition	02	0	35	35	0	05	05	0	40	40
Women empowerment										
Location specific drudgery reduction technologies	02	0	35	35	0	05	05	0	40	40
Rural Crafts										
Women and child care	01	0	06	06	0	14	14	0	20	20
Others (pl specify)										
Total	11	0	189	189	0	31	31	0	220	220
VI Agril. Engineering										
Farm Machinery 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	08	152	0	152	08	0	08	160	0	160
Integrated Disease Management	02	34	0	34	06	0	06	40	0	40
Bio-control of pests and diseases	02	37	0	37	03	0	03	40	0	40
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	12	223	0	223	17	0	17	240	0	240
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	02	38	0	38	02	0	02	40	0	40
Organic manures production	03	53	0	53	07	0	07	60	0	60
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	05	91	0	91	09	0	09	100	0	100
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		70	104	228	1232	125	33	158	1129	261	1390

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 Horticulture crops	02	12	03	15	05	0	05	17	03	20
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production	01	10	0	10	0	0	0	10	0	10
Production of organic inputs	02	15	0	15	05	0	05	20	0	20
Planting material production										
Vermi-culture										
Mushroom Production	01	09	0	09	01	0	01	10	0	10
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	01	0	10	10	0	0	0	0	10	10
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching	01	0	07	07	0	03	03	0	10	10
Rural Crafts	02	0	19	19	0	01	01	0	20	20
Production of quality animal products										
Dairying	01	09	0	09	01	0	01	10	0	10
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	02	30	01	31	09	00	09	39	01	40
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) Fodder production and Preservation technology	01	10	0	10	0	0	0	10	0	10
TOTAL	14	95	40	135	21	04	25	116	44	150

Training for Rural Youths including sponsored training programmes (Off 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 Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs	01	09	0	09	01	0	01	10	0	10
Planting material production										
Vermi-culture										
Mushroom Production	01	14	0	14	01	0	01	15	0	15
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) Fodder production and preservation technology	01	09	0	09	01	0	01	10	0	10
TOTAL	03	32	0	32	03	0	03	35	0	35

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off 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 Horticulture crops	02	12	03	15	05	0	05	17	03	20
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production	02	19	0	19	01	0	01	20	0	20
Production of organic inputs	02	15	0	15	05	0	05	20	0	20
Planting material production										
Vermi-culture										
Mushroom Production	02	23	0	23	02	0	02	25	0	25
Bee-keeping										
Sericulture										
Repair and maintenance of farm										

machinery and implements										
Value addition	01	0	10	10	0	0	0	0	10	10
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching	01	0	07	07	0	03	03	0	10	10
Rural Crafts	02	0	19	19	0	01	01	0	20	20
Production of quality animal products										
Dairying	01	09	0	09	01	0	01	10	0	10
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	02	30	01	31	09	0	09	39	01	40
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) Fodder production and preservation technology	02	19	0	19	01	0	01	20	0	20
TOTAL	17	127	40	157	24	04	28	151	44	195

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	01	22	0	22	08	0	08	30	0	30
Integrated Pest Management	02	59	0	59	05	0	05	64	0	64
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
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	03	81	0	81	13	0	13	94	0	94

Training programmes for Extension Personnel including sponsored training programmes (off 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	04	83	0	83	37	0	37	120	0	120
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards	01	26	0	26	04	0	04	30	0	30
Protected cultivation technology	01	24	0	24	06	0	06	30	0	30
Production and use of organic inputs	03	63	0	63	15	0	15	78	0	78

Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care	01	0	26	26	0	04	04	0	30	30
Low cost and nutrient efficient diet designing	01	0	20	20	0	10	10	0	30	30
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	02	42	0	42	05	0	05	47	0	47
Livestock feed and fodder production	01	26	0	26	02	0	02	28	0	28
Household food security	01	0	24	24	0	06	06	0	30	30
Any other (pl.specify)										
TOTAL	15	264	70	334	69	20	89	33	90	423

Training programmes for Extension Personnel including sponsored training programmes – CONSOLIDATED (On + Off 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	05	105	0	105	45	0	45	150	0	150
Integrated Pest Management	02	59	0	59	05	0	05	04	0	64
Integrated Nutrient management										
Rejuvenation of old orchards	01	26	0	26	04	0	04	30	0	30
Protected cultivation technology	01	24	0	24	06	0	06	30	0	30
Production and use of organic inputs	03	63	0	63	15	0	15	78	0	78
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	02	42	0	42	05	0	05	47	0	47
Livestock feed and fodder production	01	26	0	26	02	0	02	28	0	28
Household food security										
Any other (pl.specify)										
TOTAL	18	345	70	415	82	20	102	427	90	517

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	02	81	-	81	19	-	19	100	-	100
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) F.T.T.										
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)FTT										
Total										
GRAND TOTAL	02	81	-	81	19	-	19	100	-	100

Name of sponsoring agencies involved

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
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	04	87	05	92	15	10	25	102	15	117
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total	04	87	05	92	15	10	25	102	15	117
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, dyeing etc.										
Agri. para-workers, para-vet training										
Others (pl. specify)										
Total										

Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total	04	87	05	92	15	10	25	102	15	117

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	-	-	-	-
Diagnostic visits	32	224	12	236
Field Day	08	367	17	384
Group discussions	47	564	0	564
Kisan Ghosthi	30	468	21	489
Film Show	42	750	18	768
Self -help groups	16	155	10	165
Kisan Mela	-	-	-	-
Exhibition	-	-	-	-
Scientists' visit to farmers field	135	1180	24	1204
Plant/animal health camps	-	-	-	-
Farm Science Club	-	-	-	-
Ex-trainees Sammelan	03	87	0	87
Farmers' seminar/workshop	-	-	-	-
Method Demonstrations	-	-	-	-
Celebration of important days	05	716	15	731
Special day celebration	02	74	05	79
Exposure visits	01	50	0	50
Others (pl. specify)	-	-	-	-
Total	321			5957

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	500
News paper coverage	118
Popular articles	08
Radio Talks	07
TV Talks	09
Animal health camps (Number of animals treated)	01
Others (pl. specify) –Training Manual-03	300
Total	943

Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
	Text only							
	Voice only							
	Voice & Text both							
	Total Messages							
	Total farmers Benefitted							

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			
	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	Paddy	CSR-43	-	98.0	154939.0	NSC
	Lentil	HUL 57	-	25.03	144250	NSC
Oilseeds						
Pulses						
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others						
Total				123.03	299189.0	

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	Tomato	Pusa Hybrid-8	F1	3200	-	05
		Arka Vishal	F1	3625	-	05
	Brinjal	Kashi Sandesh	F1	4400	-	08
		Pusa Hybrid-6	F1	3875	-	07
	Chilli	Arka Meghana	F1	4600	-	08
		Kashi Anmol	F1	4650	-	08
	Onion	Pusa Red	F1	10700	-	15
Fruits						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
G. Total				35050	-	56

Production of Bio-Products

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

Table: Production of livestock materials

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

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	517	153	116	75750.0
Water	-	-	-	-
Plant	-	-	-	-
Manure	-	-	-	-
Others (pl. specify)	-	-	-	-
Total	517	153	116	75750.0

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
KVK Shahjahanpur	01

IX. NEWSLETTER

Name of News letter	No. of Copies printed for distribution

X. PUBLICATIONS

Category	Number
Research Paper	05
Technical bulletins	00
Technical reports	04
Others (pl. specify) Training Manual	03
Total	12

XI. 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.)

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

Introduction of alternate crops/varieties: N.A.

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

Major area coverage under alternate crops/varieties

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

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants
-	-	-
-	-	-
Total	-	-

Animal health camps organised

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

Seed distribution in drought hit states:

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

Large scale adoption of resource conservation technologies

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

Awareness campaign

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

XIII. DETAILS ON HRD ACTIVITIES

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

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 Zonal Project Directorate

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

XIV. CASE STUDY

1. Enhancement in Area, Production Productivity of Lentil in District Shahjahanpur through CFLD on Pulse

Situation analysis/Problems:

District Shahjahanpur was selected under CFLD on Pulses in 2014-15. In this district most of farmers were growing paddy, wheat, Sugarcane and pulses in a very limited area with old or traditional variety without considering the scientific cultivation technology. Lentil crop was growing in rabi season as sole and intercrop with sugarcane traditional methods. The area, Production and Productivity were very less in the district.

Plan, Implement and Support:

KVK, Shahjahanpur tries to make aware regarding scientific cultivation of lentil that start from land selection, preparation to harvesting. KVK Shahjahanpur convinced and insured to farmers for their soil testing and the basis of that farmers were advised for balance use of nutrients through chemical and organic source with high yielding varieties. Lentil crop was sown first fortnight of November with line sowing and fertilizers application was done with basal application in which starter dose of nitrogen and full dose of phosphorus and potash applied through DAP and MOP. Secondary nutrient sulphur was supplied by bentonite sulphur at sowing time. Plant protection measures were adopted during the crop.

Out Put:

Selected farmers of CFLD adopted the balance dose of fertilizers (N:P:K:S:: 20:60:40:25 kg/ha) in lentil crop as suggestion of KVK's scientist. CFLD farmers' average yield was 12.59q/ha in farmers practice while under recommended technology they achieved the average yield 21.64 q/ha, in this way CFLD farmers increased their productivity 71.88 per cent over farmers practices. The economical gain in terms of per unit expenditures, gross income, net income and BCR are recorded Rs 25300, Rs 53508, Rs 28208 and 2.112 in case of farmers practice and Rs 30800, Rs 91970, Rs 61170 and 2.99 in case of recommended practices, respectively.

Outcome:

Lentil crop is become major crop of district, KVK, Shahjahanpur conducted 311 demonstrations in 42 villages during 2014-15 to 2017-18 in an area 125 ha at farmers field with using HYV PL 08, HUL 57 and Pusa Masoor 5 (L-4594) and balance dose of fertilisers(N:P:K:S:: 20:60:40:25 kg/ha). CFLD demonstration has been disseminated the technology in 275 villages of district in area of 29642 ha in 2016-17. The outcome of this demonstration motivated the farming communities to replace their old varieties; use of soil test based balance fertilizers and adopted the plant protection measures. All CFLD farmers' are very happy on improvement in their income, livelihood and set forth example for others.

Impact:

CFLD farmers' are becoming the progressive and learned farmers for other with regards to popularization of new varieties HUL 57, PL08 and Pusa Masoor 5 (L-4594) and advance technology of pulses production. Due to adaption of advance technology in CFLD demonstration increased the production, Productivity and area of lentil in Shahjahanpur district from 15843 mt, 8.47q/ha and 18705 ha in 2013-14 to 40609 mt, 13.7q/ha and 29642 ha in 2016-17, respectively. This technology helped them for livelihood, empowerment and make him enthusiastic regards pulse production. CFLD farmers are becoming progressive farmers after coming in touch with KVK activities and get effectiveness for him own development. CFLD farmers are very happy with their improvement in production and management technology and set forth examples for other farmers of the district Shahjahanpur and adjoining districts.



**CFLD Monitor by Dr A. L. Baghmare,
Nodal Officer, NFSM**



**CFLD Field Visited by Hon'bl Prof. G. Prasad,
V.C. SVPUAT, Meerut**

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

Situation analysis/Problem statement

One day Mr. Rajvinder Singh village Shahbaj Nagar Block Dadraul, District Shahjahanpur 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.

Plan, Implement and support

In district Shahjahanpur vegetable growers grow muskmelon with traditional method by using local variety of seed and in very limited area. In spite of investing much money, they are not able to get proper yield. Rajvinder Singh of village Shahbaj Nagar 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.

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 advice 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.



XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE

A. Details on ATICs

S. No	Name of the ATIC	Name of the Host Institute	Name of the ATIC Manager
01	KVK-Shahjahanpur	SVPUA&T, Merrut	Dr. Narendra Prasad

B. Details on Farmer's visit

S. No	Purpose of visit	Number of farmer's visited
01	Technology Information	105
02	Technology Products	22
03	Others if any pl. specify	-

C. Facilities in the ATIC which are in operation

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

D. Technology information provided

D.1. Details on technology information

S. No	Information category	Number of ATICs	Total number of farmers benefited	Category of information						
				Varieties / hybrids	Pest management	Disease management	Agro-techniques	Soil and water conservation	Post Harvest technology and Value addition	Animal Husbandry and fisheries
01	Kisan Call Centre / other Phone calls from farmers	01	127	22	32	27	12	08	11	15
02	Video shows		115	12	35	30	10	05	10	13
03	Letters received									
04	Letters replied									
05	Training to farmers / technocrats / students									
06	Others pl. specify									

D.2 . Publications (Print & Electronic media)

S. No	Particulars	Number sold	Revenue generated in Rs.	Number of farmers benefited
01	Books			
02	Technical bulletins			
03	Technology Inventory			
04	CDs			
05	DVDs			
06	Video films			
07	Audio CDs			
08	Others if any (please specify) Training Manuals	-	-	300

E. Technology Products provided

S. No	Particulars	Quantity	Unit of quantity	Value in Rs.	Number of farmers benefited
01	Seeds	123.03	Quintal	299189.00	-
02	Planting materials	35050	Numbers	-	56
03	Livestock		Numbers		
04	Poultry birds		Numbers		
05	Bio-products		Quintals		
06	Others pl. specify				

F. Technology services provided

S. No	Particulars	Number of farmers benefited
01	Soil and water testing	116
02	Plant diagnostics	
03	Details about the services to line Departments	
04	Others if any (please specify)	

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION

States covered:

Number of Directorates of Extension:

A. Details on Directors of Extension

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

B. Workshops / meetings organized

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

C. Visits made by DE / Officials in the Directorate to KVKs

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

D. Overseeing of KVKs activities

S. No.	Particulars	Number of fields visited	Major observations / remarks	Major suggestions given
01	On Farm Trials			
02	Front Line Demonstration	30	OK	-
03	Others pl. specify			

E. Publication on Technology inventory

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

F. Technological Products provided to KVKs

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

XXXXXXXXXX