## KVK SAHARANPUR ANNUAL REPORT (April-2017-March-2018) APR SUMMARY

#### 1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	102	1720	320	2040
Rural youths	14	110	30	140
Extension functionaries	21	190	20	210
Sponsored Training	8	605	144	749
Vocational Training (Sponsored)	2	142	7	149
Total	147	2767	521	3288

#### 2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds(CFLD)	175	70.0	
Pulses(CFLD)	166	74.4	
Cereals	88	25.2	
Vegetables	35	3.0	
Fruit	10	4.0	
Sugarcane	10	4.0	
Total	479	180.6	
Livestock & Fisheries	30	0	540
Other enterprises	40	0	30
Total	70	0	
Grand Total	549	180.6	570

#### 3. Technology Assessment

Category	No. of Technology	No. of Trials	No. of Farmers
	Assessed		
Technology Assessed			
Crops	9	1	32
Livestock	2	1	20
Total	11	2	52

#### 4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	2071	22585
Total	2071	22585

#### 5. Mobile Advisory Services

<b>N</b> T 0	N7 - 0	N7 0	Type of Messages					
No. of Calls	No. of Farmers	No. of Messages	Crop (No.)	Livestock	Weather	Marketing	Awareness	Other enterprise
1025	1025	114	61	7	0	4	21	11

#### 6. Seed & Planting Material Production

	Quintal/Number	Value (in Rs.)
Seed (q)	20.00	
Planting material (No.)	44025	26950.00

### 7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil Sample Tested	1016	54780.00
SOIL HEALTH CARD PREPARED	3016	0.0
Total		54780.00

#### 8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	6
2	Conferences	2
3	Meetings	18
4	Trainings for KVK officials	06
5	Visits of KVK officials	27
6	Book published	02
7	Training Manual	03
8	Book chapters/bokklets	04
9	Research papers	09
10	Lead papers	03
11	Seminar papers	07
12	Extension folder	16
13	Proceedings	03
14	Award & recognition	08
15	On going research projects(IFS)	01
	Total:	115

### **DETAIL REPORT OF APR-2017-18**

#### 1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Tele	phone	E mail
	Office	FAX	
KRISHI VIGYAN KENDRA,	0132-2664480	0132-2664480	kvksaharanpur01@gmail.com
KHAJURI BAGH, NEAR NUMAISH			
CAMP, NEW GOPAL NAGAR			
SAHARANPUR-247001 (U.P.)			

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

Address	Tele	phone	E mail
	Office	FAX	
Sardar Vallabhbhai Patel University of Agril &	0121-2888511	0121-2888511	deesvpuat2014@gmail.com
Tech, Modipuram, Meerut, (U.P)			

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

Name		Telephone / C	Contact
Dr. I.K. Kushwaha	Residence	Mobile	Email
		9412376121	kushwahaik66@gmail.com

#### 1.4. Year of sanction: 1992

### **1.5. Staff Position** (as on 30<sup>th</sup> March, 2018)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temp-orary	Category (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Subject Matter Specialist	Dr. I.K. Kushwaha	Professor (Plant Protection)/OIC	Ph.D (P.P.)	37400-67000	60600	10.04.95	Permanent	OBC	9412376121	52	kushwahaik66@g mail.com
2	Subject Matter Specialist	Dr. (Mrs.) Rita	Professor (Home Science)	Ph.D. (H. Sc.)	37400-67000	67830	10.10.94	Permanent	GEN	9412232795	58	ritakvk1959@ gmail.com
3	Subject Matter Specialist	Sh. Pramod Kumar	SMS/Asstt. Prof. (A.H)	M.Sc.(A.H)	15600-39100	30160	09.07.08	Permanent	OBC	9311951646	46	pramodk201070 @ rediffmail.com
4	Subject Matter Specialist	Dr. Mahavir Singh	SMS/Asstt. Prof. (Agronomy)	Ph.D (Agro.)	15600-39100	32020	09.07.08	Permanent	SC	8457826151	44	mahavirsingh 1234@ rediffmail.com

5										_		05 n
	Programme Assistant	Dr. Virendra Kumar	Programme Assistant	Ph.D (Ag. Botany)	9300-34800	70000	01.07.98	Permanent	OBC	9837712827	50	virendrakumar 3@gmail.cor
6	Computer Programmer	Sh. R. R Dhaneshwar	Prog. Asstt. (Comp.)	PGDCA(2yr) & MCA	9300-34800	68000	27.10.99	Permanent	SC	9927279434	43	rajdhaneshwar_152@ yahoo.co.in
7	Farm Manager		1	ı	1		1	I	ı	T	-	1
8	Accountant / Superintendent	Sh. Ashwani Kumar	O/S cum Acctt.	B.A	9300-34800	47600	30.07.07	Permanent	SC	9897656491	44	ashwanikvk@ gmail.com
9	Stenographer	Sh. Sumit Kumar	Jr. Steno	BCA, LLB	5200-20200	35300	30.07.07	Permanent	OBC	9412663575	36	
10	Driver	Sh. Sanjay Kumar	Driver	B.A	5200-20200	27600	30.07.07	Permanent	GEN	9756909699	45	
11	Driver		ı	ı	ı		ı		ı		-	ı
12	Supporting staff	Sh. Sita Ram	Attendant	B.A	4440-7440	33300	01.07.98	Permanent	GEN	9411033979	45	
13	Supporting staff	Sh. Ram Kumar	Peon/Security Guard	High school	4440-7440	27600	19.12.03	Permanent	SC	8126023434	45	

## 1.6. Total land with KVK (in ha) : 10.109 ha

Sl. No.	Item	Area (ha)
1	At Administrative campus	2.290
2	Orchard/Agro-forestry	5.869
3	Сгор	0.90
4	Farm office & threshing floor	0.05
5	Guava orchard	1.000
	Total:	10.109

#### 1.7. Infrastructural Development: A) Buildings

A)	Dunuings								
Sl.	Name of	Source		Stage					
No.	building	of		Complete		Incom	plete		
		funding	Completion Date	Plinth area (Sq.m)	Expenditure (Rs. in lakh)	Starting Date	Status of construction		
1.	Administrative Building	ICAR	April 2005	$550 \text{ m}^2$	31.50	01.06.06	Completed		
2.	Farmers Hostel	ICAR	2008	$300 \text{ m}^2$		01.06.06	Completed		
3.	Staff Quarters (6)	ICAR	2008	431 m <sup>2</sup>		01.06.06	Completed		
4.	Demonstration Units/IFS/ ATIC (9)	ICAR	2008 & 2017	760 m <sup>2</sup>		01.06.06 & 17.03.2017	Completed		
5.	Fencing	ICAR	2008	$1000 \text{ m}^2$		01.06.06	Completed		
6.	Irrigation Channel	ICAR	2008	800 m		01.06.06	Completed		
7.	Threshing floor	ICAR	2008	$300 \text{ m}^2$		01.06.06	Completed		
8.	Farm godown	ICAR	2008	$60 \text{ m}^2$		01.06.06	Completed		

#### **B) Vehicle**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep	2009	4,85,000.00	152312	Working condition
Motor Cycle	2003	57,680.00	35,845	Working condition

#### C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Photo Copier Machine with Voltage	30.12.1999	66200.69	Not working
Stabliser also two Toner			
Over Head Projector	10.12.1999	15645	Not working
LCD Projector Panasonic	30.03.2007	57000	Working
VCR	21.10.2000	12450	Not working
TV	21.10.200	13900	Working
Camera Pantex	21.10.2000	22400	Not working
Digital Camera	30.03.2004	8450	Not working
Scanner	30.03.04	7400	Not working
Fax Machine	30.03.04	15000	Not working

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

Sl.	Date	Name and Designation of	Salient Recommendations	Action taken
No.		Participants		
1.	14.12.2017	1.Dr. Kushpal Singh	Nitrogen fixeson in crop	To promote the nitrogen
	(No. of	Pricinple Scientist, Meerut	leaf colour chart basis.	fixeson through leaf colour
	participants-	2. Dr. Gopal Singh		chart proposal submitted to
	42)	JDE, SVPUA&T, Meerut		Indian oil crop lit.
2		3.Dr. R.K. Naresh Prasad,	To promote the dhingri	Three traning for 29 dhingri
		Prof. (Agro.) SVPUA&T,	mushroom value adition	mushroom provided the started
		Meerut	traning should be provided.	dying the dhingri mushroom .
3		4.Dr. Satya Prakash	Late varieties of wheat also	Late variety of wheat
		Senior Scientist/Head	included in FLD.	unnatihalna included in FLD
		5.Dr. R.S. Ram		in action plan 2018-19.
4		JD(Agril.)	Mashroom production	KVK Saharanpur started the
		6.Sri. Mansa Ram Distt.	traning should be provided	traing for tree type mushroom
		Development Officer, SRE	for around the year	production. dhingri, milki &
		7.Dr. P.K. Singh Asstt, Prof.	mushroom production.	billon traning provide for

	SVPUA&T, Meerut		including
5	8. Dr. J.P. Yadav Asstt, Prof.	Tycocard should be	Tricho card provided to the
	SVPUA&T, Meerut	provided by KVK	farmers through kvk
	9.Sri. Rakesh Babu Dy.	Saharanpur.	Saharanpur with the support of
	Dir(P.P.) SRE		SPA Biocartral Lab.
6	10.Dr. Y.P. Singh CVO, SRE	To increase the productivity	Training on improved trench
	11.Sri. Arun Kumar	& income of the sugarcane	production sugarcane provided
	DHO, SRE	growers KVK should praid	to 22580 farmers with teknll
	12. Sri Jai Kumar Sharma Dy.	the training on production	department of sugarcane &
	Dir.(Soil)	technique & inter cropping	sugar mill and area coverd
	13. Dr. R.K. Singh Dy. Dir	with sugarcane	43560 Ha.
7	(Hort.)	Newly production	Traning provided to sugarcane
	14. Dr. R.D. Dewdi Distt.	techinique of sugarcane	mills employe when budget
	Cane Officer, SRE	should be demonstrated by	will provide by sugarmills to
	15. Sri Yeshvir Singh Saini	KVK at sugarcane farm.	KVK activity should be under
	DPD, ATMA	C C	taken.
8	16. Sri R.P. Sharma AAO,	Awareness programe should	KVK organized 8 awareness
	DASP, SRE	be driven by KVK for	camp and coverd 3260
	17. Sri. Sahansh Pal SMS Ag.	changing the soil time of	farmers.
	18 Sri Sunil Kr. Maurya UPL,	late spring.	
9	Advanta	Organic vegetables	KVK scientist coordinate 8
	19. Sri Kapil Kumar, Advanta	production should be	training programe for 540
	20. Sri Naveen Kumar,	organic by KVK.	farmers and one training
	Advanta		program safe use
10	21. Sri. Vikrant Kumar,	Sufficient & timely zypsum	KVK scientist will coordinate
	Advanta	availabity should be to the	with department of agricullcer
	22.Sri. Yesh Pal Singh	farmers.	for sufficient zypsum
	Member & Progressive		availabllty.
11	Farmer	Parbal vegetable should be	Home scientist will try to
	23.Sri. Satya Pal	included in kitchen gard.	included the parbal in kitchen
	Member & Progressive	C C	garden at the sowing time
12	Farmer	Availabily at agriculture	Three SHG starting input
	24.Sri. Satyavir Singh	input should be increase	management through WSHG.
	Progressive Farmer	through WSHG .	
13	25.Smt. Krishila Devi		
	Member		
	25.Sri. Sudhir		
	Progressive Farmer		
	26.Sri Sethpal Singh		
	Progressive Farmer		
	27. Sri Dharam Pal Pundir,		
	Progressive Farmer		
	28.Sri. Praveen Kumar,		
	Progressive Farmer		
	29.Sri. Madan Singn,		
	Progressive Farmer 30.Sri.		
	Former		
	Farmer		
	51.DI. Kila		
	Assoc. Dir. Exin.(H.Science)		
	52.DI. I.K. KUSHWANA		
	Assoc. Dir. Extn.(P.P.)		
	SS.Dr. Wanavir Singh		
	SIVIS(Agronomy)		
	34.Dr. Pramod Kumar		

SMS(Animal Science)	
35.Dr. B.P. Shahi	
SMS(Hort.)	
36.Dr. Vikas Kumar	
SMS(P.B.)	
37.Dr. Ashok Prog. Asstt.	
38.Sri. Raja Ram	
Dhaneshwar, Prog. Asstt.	
38.Sri. Ashwani Kumar	
Acctt.	
39.Sri. Sumit Kumar	
Steno/Computer Operator	
40.Sri. Sanjay Kumar	
Driver	
41.Sri. Sita Ram, Attendant	
42.Sri. Ram Kumar	
Attendant	

#### 2. DETAILS OF DISTRICT (2017-18)

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

Sl. No.	Farming system/enterprise
1	Agri. + Hort. + A.H.
2	Agri. + A.H.
3	Landless + A.H.

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

Та	Table – AGROECOLOGICAL SITUATIONS OF SAHARANPUR DISTRICT							
Sl. No.	AES	Characteristics of AES	Major Commodities	Farming System	Blocks			
1.	Ι	More than 60 % of area rain fed, sandy and sandy loam	Maize, Wheat, Groundnut, Lentl, Guava, Mango, Brinjal, Bitter-guard, Cow, Goat, Sheep	Maize, Groundnut based+ Hort+AH (Cow, Goat, Sheep)	S. Kadeem, Muzaffarabad			
2.	II	Irrigated Loam, Clay Loam soils	Rice, Wheat, S.cane, Mango, Vegetables, Buffalo, Cow	Paddy, Wheat, S. cane based+A.H. (Cow, Buffalo)+ Hort	Rampur, Baliakheri, Puwanrka			
3.	III	Irrigated Sandy Loam, Loam (S.cane predominant)	S.cane, Wheat, Urd, Paddy, Mustard, Buffalo, Cow	S.cane based +Horticulture+A.H. (Cow, Buffalo)	Deoband, Nagal, Sarsawa, Nakur, Nanauta, Gangoh			



#### 2.3 Soil types

Sl. No.	Soil type	Characteristics	Area (ha)
1	Sandy	Size- >0.02 mm	44280.00
		WHC- Low	
		Fertility – Very Low	
2	Sandy loam & Loam	Size- 0.02-0.002 mm	147706.00
		WHC- Medium	
		Fertility – Medium	
3	Clay loam	Size- <0.002 mm	81420.00
		WHC- High	
		Fertility – High	
	Total:		273406.00

2.4 Area,	Production	and Produ	ctivity of	major cro	ps cultivated	in the district
			•		1	

Sl.No.	Name of the commodity	Area (ha)	Production (qtl.)	Productivity (q/ha)
1	Paddy	73919	198070	26.80
2	Wheat	112.343	377.213	33.55
3	Sugarcane	79634	55993890	618.0
4	Groundnut	3890	32840	10.58
5	Urd	1441	5249	4.51
6	Maize	8285	92493	12.02
7	Gram	14	40	4.0
8	Lentil	2150	17290	7.98
9	Mustard	1205	1182	9.81
10	Pea	55	140	10.0

#### AREA, PRODUCTION AND PRODUCTIVITY OF IMPORTANT COMMODITIES IN SAHARANPUR DISTRICT

Sl.No.	Name of the commodity	Area (ha)	Productivity (ton/ha)
Α	Vegetables		
1	Cole crops	6000	29.00
2	Brinjal	4610	34.00
3	Tomato	1975	31.00
4	Pea	1905	15.45
5	Cucurbits	9400	17.10
6	Potato	1020	24.56
7	Capsicum	275	18.60
8	Okra	1825	16.00
В	Spices		
1	Onion	215	21.00
2	Chilli	218	16.00
С	Fruits		
1	Mango	25946	11.00
2	Guava	2210	18.27
3	Litchi	1500	9.16
4	Peach	135	9.25

#### 2.5 Weather data (Rainfall) :

Sl. No.	Month	Average Rainfall in mm
1	April, 2017	3.40
2	May, 2017	52.80
3	June, 2017	10.10
4	July, 2017	324.70
5	Aug., 2017	378.50
6	Sept., 2017	95.30
7	Oct., 2017	7.40
8	Nov., 2017	3.20
9	Dec., 2017	1.1
10	Jan., 2018	22.4
11	Feb., 2018	29.4
12	March, 2018	27.0
	Total	955.3

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

Category	Population	Production	Productivity (kg/day/animal)
Cattle	260352		
Crossbred	78106	89760	8.5
Indigenous	182246	120487	1.7
Buffalo	633988	1627016	5.8
Sheep	25813	36935	1.3
Goats	97072	50121	0.9
Pigs	25913		
Poultry	87989		

Category	Area (ha)	Production (qt.)	Productivity (qt./ha)
Fish	350	14350	41.0

2.7	.7 Details of Operational area / Village								
Sl. No.	Name of the block	Name of the village	Major crops &	Major problem identified	Identified Thrust Areas				
1	Baliya Kheri	Nandi Firozpur, Chhapredi, Lakhnore	Sugarcane, Wheat, paddy, Lentil, Brinjal, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting Vallabh Krishak Club, Resource Conservation Technologies, Improving technical skills				
2	Punwaraka	Punwarka, Behadi Gujjar, Chaurakhurd, Lakhnautikaln & Kusaini	Sugarcane, Wheat, paddy, Lentil, Urd, Mustard, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalnced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting Vallabh Krishak Club, Resource Conservation Technologies, Improving technical skills				
3	Nakur	Raniyala Dayalpur, Jaigehta	Sugarcane, Wheat, paddy, Lentil, Urd, Mustard, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalnced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting Vallabh Krishak Club, Resource Conservation Technologies, Improving technical skills				
4	Sarsanwa	Bidvi, Ahadi Kanla& Patna	Sugarcane, Wheat, paddy, Lentil, Urd, Mustard, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalnced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting Vallabh Krishak Club, Resource Conservation Technologies, Improving technical skills				
5	Nagal	Bedadi Koli Nagal & Amki	Sugarcane, Wheat, paddy, Lentil, Brinjal, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting Vallabh Krishak Club, Resource Conservation Technologies, Improving technical skills				
6	Rampur	Madnuki, Pahansu	Sugarcane, Wheat, paddy, Lentil, Brinjal, Mango	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in	Promoting seed production, Promoting mushroom production, IPNM, IPM, IDM, Proper health & nutrition management in animals Promoting Vallabb				

			Cows & Buffaloes	animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Krishak Club, Resource Conservation Technologies, Improving technical skills
7	Gangoh	Mubarikpur Sukheri	Sugarcane, Wheat, paddy, Lentil, Brinjal, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting Vallabh Krishak Club, Resource Conservation Technologies, Improving technical skills
8	Muzaffarabad	Chanchak & Baheda Kanla	Sugarcane, Groundnut, Wheat, paddy, Lentil, Brinjal, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting Vallabh Krishak Club, Resource Conservation Technologies, Improving technical skills
9	Deoband	Rankhandi & Makbara	Sugarcane, Wheat, paddy, Lentil, Brinjal, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting Vallabh Krishak Club, Resource Conservation Technologies, Improving technical skills
10	Sadauli Kadeem	Rampur Badkala, Meerpur Thaska	Groundnut, Guava, Wheat, paddy, Lentil, Brinjal, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting Vallabh Krishak Club, Resource Conservation Technologies, Improving technical skills
11	Nanauta	Maheshpur, Hangawali,&Dalheri	Sugarcane, Wheat, paddy, Lentil, Brinjal, Mango, Poultry, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting Vallabh Krishak Club, Resource Conservation Technologies, Improving technical skills
28	Driority thr	ist aroos			1

Crop/Enterprise	Thrust area
Rice	IPNM, Weed management, Hybrid rice, IPM, IDM, Seed production
Sugarcane	IPNM, Weed management, IPM, IDM, Seed production
Wheat	Integrated Nutrient Management, Weed management, IPM, IDM, Seed production
Oilseeds & Pulses crop	Sulphar application & IPM
Vegetables	IPNM & IPM
Animals	Endo & Ecto parasite control, Improving fertility, Nutreint management

<b>2.9</b> Intervention/ Programmes for the doubling the farmers income – during 2017-18					Demonstrations		
<b>Before Interventions</b>	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent Yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Intercropping System(Kharif-Rabi- Zaid) -Livestock etc.							
Sugarcane-Onion	1070.00	315.00	1385.00	133092.00	473820.00	3.56	

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

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Intercropping System(Kharif-Rabi- Zaid) -Livestock etc.							
Sugarcane-Onion	1187.00	335.00	1522.00	138222.00	602110.00	4.35	

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

<b>Before</b> 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.							
Sugarcane	910.00		910.00	88370.00	142380.00	1.6	

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.							
Sugarcane-Mustard	1192.00	40.8	1232.8	119160.00	456120.00	3.82	

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

<b>Before Interventions</b>	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.							
Bottlegourd-Early Cauliflower-Green Gram	397.65		397.65	106341.40	353714.00	3.32	

**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.							
Bottlegourd-Early Cauliflower-Green Gram	514.40	8.5	522.9	114405.00	531892.00	4.64	

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

<b>Before Interventions</b>	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.							
Rice-Wheat-Dairy	72.5	2240 lit.(milk)	72.5+2240	125120.00	149130.00	1.19	

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

After	Main crop	Inter crop	Equivalent	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C:	Remark if
Interventions	Yield(q/ha)	Yield(q/ha)	yield(q/ha)			Ratio	any
Mixed Farming							
System(Kharif-Rabi-							
Zaid) -Livestock etc.							
Rice-Wheat-Dairy	113.75	2520 lit.(milk)	113.75+2520	128770.00	203030	1.57	

**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-Za	aid) -Livestock etc.						
Kharif- Rice	46	-	-	28750	72450	2.9	
Black Gram	9.3			14560	31090	3.1	
Rabi- Wheat	43			27560	22458	2.6	
Live stok	-	-	-	-	-	-	

**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-Z	Zaid) -Livestock etc.					1	
Kharif- Rice	54	-	-	29840	99750	4.3	
Black Gram	Guava(3year)	12.2		16300	46150	3.8	Guava no income
Rabi- Wheat	55	-		32580	62845	2.9	
Live stok	100 Chicks	-	-	8000	15425	1.9	

**Discussion**: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) \* Note- Same format may be used for OFT.

### 3. TECHNICAL PROGRAMME (April 2017 to March 2018)

OFT (	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Other Crops/Enterprises)				
1				2					
Num	Number of OFTs Total no. of Trials		Area in ha		Number of Farmers				
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement		
8-10	11		52		180.6	200	549		

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

Training (inc	luding spo	nsored, vocatio	onal and of	ther trainings		Extension	Activities	
car	ried under	Rainwater Ha	rvesting U	nit)				
	3						4	
Number of Courses		ırses	Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achieve- ment	Targets	Achieve- ment	Targets	Achieve- ment	Targets	Achieve- ment
PF Farmers		102		2040				
Rural youth		14		140				
Extn.		21		210				
Functionaries								
Sponsored	100	8	2000	749	2000	2011	4000	34261
training								
Vocational	-	2	-	149				
RY Training								
Total	100	147	2000	3288	2000	2071	4000	22585

	Seed Production (	Qtl.)	Planting material (Nos.)			
	5		6			
Target	Achievement	Distributed to no. of	Target	Distributed to		
		farmers			no. of farmers	
20	20	11	20,000	44025	255	

## I.A TECHNOLOGY ASSESSMENT

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Resource Conservation	S.Cane + Inter crop	Improved trench method planting of sugarcane	01	05
	Mustard	Transplanting method of mustard variety RP-9.	01	03
	Mango	Window opening of quality mango production	01	02
Pest Disease Management	Paddy	The management of BPH insect in Paddy	01	03
	Mango	Management of shoot gall maker (Psylliasp) insect in mango orchard		03
Nutrient management	Mango	Evaluation of different nutrient combination in mango orchard	01	03
Varietal Evaluation	Paddy	Evaluation of disease resistance & high yielding varieties of paddy in Saharanpur District	01	05
	Wheat	Evaluation of disease resistance & high yielding varieties of wheat in Saharanpur district	01	05
	Sugarcane	Evaluation of disease resistance & high yielding varieties of sugarcane in Saharanpur district.		03
		Total:	09	32

Summary of technologies assessed under various crops

#### Summary of technologies assessed under livestock :

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Nutrition management	Milch animal	Assessment of UMMB animal feed supplementation to control the infertility	01	10
Feed & fodder management	Buffalo	Assessment of conventional and Bye-pass animal feed to enhancing milk yield.	01	10
		Total	02	20

#### I.B. TECHNOLOGY ASSESSMENT IN DETAIL RESOURCE CONSERVATION

#### **Problem definition:** Low yield due to conventional planting method of sugarcane in spring season.

#### Technology Assessed : Improved trench method planting of sugarcane

To increase yield and income of sugarcane growers KVK, Saharanpur conducted on-farm trial on different methods of sugarcane planting. The improved trench planting methods of sugarcane row to row at 120 cm spacing with two row parallel in one furrow and place between two row use as inter crop of mung bean results are given bellow

Table Ferjorn	iance trenc	en meinoù f	pianung in	ier crop in	i sugarcane				
Treatments	Treatments No. of Yield (q/ha) trial		(q/ha)	% change	No. of mealable	Cost of cultivation	Gross income	Net Income	BC Ratio
		S.Cane	Mung	in Yield	cane 3 (x10 <sup>3</sup> /ha)	( <b>R</b> s./ha)	( <b>R</b> s./ha)	(Rs. in lakh/ha)	
T1:Planting sugarcane at 75 cm row spacing (FP)	05	710.00	-	-	104	88370.00	230750.00	142380.00	2.61
T2: Trench method 100 cm		1192.00	5.7	40.4	127	94980.00	387400+ 28500= 415900.00	320920.00	4.37

 Table
 Performance Trench method planting inter crop in sugarcane

Sugarcane Rs. 325/q, Mung-Rs. 5000/q

OFT-1



**Recommendation** – Farmers got sugarcane yield 710q/ha. in conventional method and in improved trench method get 1192q/ha. yield. Yield increased 40.4% in improved trench method in compression to farmers practices. The net income was 3.2 lac/ha. in trench method.

Farmer reaction – In trench method crop was not lodged hence in farmers practice crop was lodged 22-25%.

- Farmers get the good income in compression to conventional method so farmers like this technology.

OFT-2Problem definition:Low yield of mustard due to traditional sowing methods.

**Technology Assessed:** Transplanting method of mustard (variety RP-9.)

To increase yield and income of oil seed mustard growers KVK, Saharanpur conducted on-farm trial on different mustard sowing/transplanting methods. The 21 days old mustard nursery transplanted with spacing row to row and Plant to plant at one m2.in the first week of October. The observation data is given billow.

Treatments	No. of trial	Yield (q/ha)	% change in Yield	Siliqua /plant No.	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net Income (Rs./ha)	BC Ratio
T1: Farmer practice		22.40		370	16864	89600	72736	5.31

Table: Performance transplanting mustard Variety- RP-9

(YSH401)								
T2: RP-9	03	34.00	51.78	4500	24180	136000	11830	5.62
(Transplanting								
method)method								
Rs. 4000/q								

**Recommendation** – In western U.P. most of the farmers sowing the mustard crop & they set the yield 22.40 q/ha. and in transplanting method farmers got yield 34.0 q/ha., yield increased 51.78% in this system. Farmers get the net income in transplanting was Rs. 111830 q/ha. & in conventional method Rs. 72736/ha. BC ratio was also increase in comparison to conventional method.

*Farmers reaction* – In transplanting method farmers get the higher yield in comparison to conventional method, so this technology is much like by the farmer.

#### OFT-3

OFT-4

**Problem definition:** Low yield due to high density of mango orchard.

**Technology Assesse:** Window opening of quality mango production in Saharanpur district.

To increase yield and income of mango growers KVK, Saharanpur conducted onfarm trial on different methods of window opening in mango orchard.

T 11.	T	· · · · 1	• •		1 1
<i>I able</i>	Economics	oj winaow e	opening in	mango	orcnara.

Treatments	No. of trial	Yield (q/ha)	% change in Yield	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net Income (Rs. in lakh/ha)	BC Ratio
T1:No window opening & training & pruing (FP)				Result awaited			
T2: Window opening in the month of Nov. & Dec.	02						

\*The farmers window opening 25.11.2017. Result awaited due to mango fruits set stage in this time.

#### PEST DISEASE MANAGEMENT

**Problem definition:** Yield loss of 15-55% and income loss of Rs.40000/ha **due to** Heavy infestation **of BPH** insect pest in paddy crop

Technology Assessed:The management of BPH insect in Paddy

Basmati rice is an important crop of Western UP. However, there is high incidence of **BPH insect pest** resulting in yield loss. KVK Saharanpur conducted on-farm trial to **assess** the control measure. The assess technology of **Light trap@10 no./ha and spray of Dinotefuran 20 SC 150gm/500 lit. water/ha at heading stage** reduced the percentage of insect infestation from 42 to 13 and yield was increased by 67.86 per cent.

Technology Option	No.of trials	Incidence of BPH (%)	Yield (q/ha)	% Increase in yield over farmer's practice	Cost of cultivation Rs./ha.	Gross income	B:C ratio
Use of Phorate@25kg/ha(Farmer Practice)		42	30.5		34412	61000	1.77
Light trap@10 no./ha and spray of Dinotefuran 20 SC 150gm/500 lit. water/ha at heading stage	03	13	51.2	67.86	38510	102400	2.66
	a Maria	122. 57. 10 A. salt	the but	NAM	h Congrad	•	•

#### Table Effect of Light trap and spray of Dinotefuran BPH insect pest in paddy crop



**Recommendation** – In paddy crop damaged by BPH 42% under farmers practice where are crop damaged was 13% in treatment & yield also increased 67.86% in comparison to conventional plot.

*Farmers reaction – Farmers much like introduced technology for BPH management in paddy crop.* 

#### OFT-5

**Problem definition:** Yield loss of 25% and income loss of Rs.70000/ha due to heavy incidence of shoot gall maker insect in mango orchard

Technology Assesse: Management of shoot gall maker (Psylliasp) insect in mango orchard

Mango is an important cash crop of WesternUP. However, there is high incidence of shoot gall maker (Psylliasp) insect in mango orchardresulting in yield loss. KVK Saharanpur conducted on-farm trial to **assess** the control measure. The assess technology of <u>Thaiomethoxam@1gm/lit.+Profenophos@2gm/lit</u>. water, two spray 2& 14 August reduced the percentage of insect infestation from 36 to 05 and yield awaited.

 Table Effect of Thaiomethoxam+Profenophosin control of 19ffshoot gall maker (Psylliasp) insect in mango orchard

Technology Option	No.of trials	Incidence of shoot gall (%)	Yield (kg/ha)	% Increase in yield over farmer's practice
Application of Imida 0.5ml/lit. (Farmers practice)			Awaited	
Thai omethox am @1gm/lit. + Profenophos @2gm/lit.	03			
water, two spray 2& 14 August.	T TO MALE IN	200-19 A 3		<u> </u>

#### NUTRIENT MANAGEMENT

#### OFT-6

Problem definition: Poor management of manure & fertilizer due to low yield & quality mango production orchard

**Technology Assessed:** Evaluation of different nutrient combination in mango orchard T1- Farmer's practices (only apply DAP))

T2- Soil application of N:P:K 12:32:16 3.0 kg/plant and micro nutrient 2.0 kg/plant(micro food)

Treatments	No. of trial	Yield	% change in	Cost of	Gross	Net	BC
	5	(q/ha)	Yield	cultivatio	income	Income	Rati
				n (Rs./ha)	(Rs./ha	(Rs. in	0
					)	lakh/ha	
						)	
T1: Only apply DAP (FP)		165		31000	198000	194000	1.62
T2: Soil application of N:P:K		242	46.66	37550	363000	325450	1.86
12:32:16 3.0 kg/plant and micro							
nutrient 2.0 kg/plant(micro food)	02						

Table: Ecnomics of Application of manure & fertilizer in mango orchard

**Recommendation** – In Saharanpur mango area is about 25000 and most of the farmers applied 1 Kg DAP/tree get 165q/ha. & on the basis of soil testing basis farmers applied the nutrient on the scientific recommendation & get 242 q/ha. The yield increased was 46.6% & farmers get the income 325450/ha. & BC ratio also 1.86.

Farmers reactions:- Under treatment get the 242 q/ha comparison to farmers practices 165 q/ha.

The fruit quality was much better resulting market price increase.

#### VARIETAL EVALUTION

## OFT-7

**Problem definition:** Low yield and income of paddy due to use of old varieties.

Technology Assessed:Evaluation of disease resistance & high yielding varieties of paddy in Saharanpur district.On-farm trial was conducted to find out suitable high yielding paddy variety for better yield and income.

Source of technology: IARI, Pusa, New Delhi. Table: Performance of high yielding naddy varieties

	unce oj .	nign yieu	ung puuuy v	unienes.					
Treatments	No. of trial	Yield (q/ha)	% change in Yield	No of tillers/ plant	No. of plant effected/ 10sqm	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net Income (Rs./ha)	BC Ratio
<i>T1: FP</i>		41.55		6	17	35380	112185	76805	3.17

(PB-1)	05								
T2: Pusa-1460		51.80	24.60	8	06	35750	139860	104110	3.91
Rs. 2700/q									
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		LAN			SHOW V		Martin Contraction		

Recommendation – In district Saharanpur kvk promoted paddy Pusa 1460 & farmers get yield 51.80 q/ha. in comparison to PB 1 yield 41.55 q/ha. yield was 24.6% higher in comparison to PB -1 Farmers reaction – Due to good yield, farmers much like Pusa 1460 variety.

#### OFT-8

**Problem definition:** Low yield and income of wheat due to use of old varieties.

**Technology Assessed:** Evaluation of disease resistance & high yielding varieties of wheat in Saharanpur district. On-farm trial was conducted to find out suitable high yielding wheat variety for better yield and income

Source of technology: IARI, Pusa, New Delhi, & IIWBR, Karnal

#### Table: Performance of high yielding paddy varieties.

Treatments	No. of trial	Yield (q/ha)	% change in Yield	No of tillers/ plant	No. of plant effected/ 10sqm	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net Income (Rs./ha)	BC Ratio
<i>T1: FP (PBW-502)</i>	05	49.80		6	7	36780	108903	72123	2.96
T2: HD-3086		61.50	23.4	9	0	36960	134602	97642	3.64

#### Rs. 1735/q & Straw 450/q



**Recommendation:**– farmers sown the old variety PBW 502 get yield 49.8q/ha. Newly variety (HD- 3086)sown & set yield 61.50q/ha. yield was increased 23.4%

Farmers reaction:- HD 3086 crop was not lodget.

OFT-9

Problem definition:Low yield and income of sugarcane due to use of old varieties in spring season.Technology Assessed:Evaluation of disease resistance & high yielding varieties of sugarcane in Saharanpurdistrict.

On-farm trial was conducted to find out suitable high yielding sugarcane variety for better yield and income.

Source of technolo	ogy:	IISR, Li	ucknow & S	SBI C	oimbate	)r
Table: Performan	ce of	high yield	ling sugarc	cane	varietie	s.

<b>I detet I e</b> tjetin									
Treatments	No. of trial	Yield (q/ha)	% change in Yield	No of tillers/plant	No. of plant effected/ 10sqm	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net Income (Rs./ha)	BC Ratio
T1:Co-0238	03	Result awaited							
	05	amanca							
T2: CoS-8272									
T3: Co-0118									



#### LIVE STOCK ENTERPRISES

**OFT-10** 

**Problem definition:** Low milk yield and income due to conventional ration feeding.

Technology: Assessment of conventional and Bye-pass animal feed to enhancing milk yield.

KVK, Saharanpur conducted trial to find out suitable animal feed for improving milk yield and income. In this trial **Bye-pass animal feed** shows better result and more effective than other animal feed.

Assessment of	of different	animal feed
---------------	--------------	-------------

Treatments	No. of trial	No. of animals	Milk Yield (Lit./day)	% change in Yield	Cost of cultivation (Rs./day)	Gross income (Rs./day)	Net Income (Rs./day)	BC Ratio
Farmer's practice (Conventional feed)		10	11.4		360	482	122	1.33
Use of <b>Bye-pass animal</b> <b>feed</b> @ 4 kg/day/animal	01	10	13.5	15.55	290	607	317	2.09



**Recommendation** – The yield of milking is 11.4 lt./day due to conventional feed and under treated get the milk 13.5lt./day resulted increased yield milk production 15.55

Farmer reaction – Under scientific feed management farmers get the much milk yield.

#### **OFT-11**

#### Problem definition: High incidence of infertility in cows.

Technology: Assessment of UMMB animal feed supplementation to control the infertility

KVK, Saharanpur conducted trial to find out suitable remedies for improving heat synchronization and conception rate. In this trial UMMB and farmer practice assessed for thi problem. UMMB shows better result and more effective than other remedies.

Assessment of different mineral & feed supplements

Technology Option	No.of trials	No. of animals	Cost in Rs./Animal for 120 days	No. of heat animals	No. of serviced animals	No. of pregnant animals	Conception rate %
Farmer's practice (salt)		10	385	2	2	2	20
Mi Use of UMMB@ 1 brick for 7 days/animal neral mixture with Receptol iniection	01	10	590	8	8	6	60



**Recommendation** – Milch animals health & yield affected poor management study were taken to introduce the mineral mixture UMMB in this system. No. of pregnant animal was 6 in comparison to farmer practice 2. The conception rate increased 60%.

Farmer reaction -Farmer like the technology with spend Rs. 590/animal/120 day

### II FRONTLINE DEMONSTRATION

a. List of technologies demonstrated during previous year (2016-17) and popularized during 2017-18 and recommended for large scale adoption in the district

S. No. Crop/ Thematic Teo			Technology demonstrated	Horizontal spread of technology				
	Enterprise	Area*		the Extension system	No. of villages	No. of farmers	Area in ha	
1	Wheat	Weed management	Grassy weeds control through chlodinophop and met sulfuron in wheat	Kisan Gosthi, Extension functionaries training & Campaign	52	1325	4102	
2	Paddy	Weed management	Grassy weeds control through bispyribac sodium 10% in paddy	Kisan Gosthi, Extension functionaries training & Campaign	48	1412	3587	
	Paddy	IDM	Sheath blight mgt. through Trichodermaharzianum	Awareness and Demonstration	55	842	850	
3	Fodder	Popularization of nutrifeed fodder	Popularization of nutrifeed fodder	Kisan Gosthi, Extension functionaries training & Campaign	72	610	1598	
4	Groundnut	IPNM in G nut	IPNM in Ground nut	Kisan Gosthi, Field, Extension functionaries training & Campaign	17	210	740	
	Ground-nut	IPM	Mgt. of white grub through B.bassiana	Awareness and Demonstration	5	109	80	
5	Mustard	IPNM in mustard	IPNM mustard	Kisan Gosthi, Field, Extension functionaries training & Campaign	31	445	870	
6	Onion	Varietal Introduction	Promotion of rabi & kharif onion variety	Kisan Gosthi, Field, Extension functionaries training & Campaign	224	724	985	
	Guava	IPM	Management of fruit borer through Pheromone Methyeujinol lure(20Traps/ha), Lure change after 25 days interval at 3 times	Awareness and Demonstration	16	208	298	
	Sugar-cane	IPM	Application beauveriabassiana&Metarhizium for termite & white grub mgt.	Awareness and Demonstration	46	650	1482	

## b. Details of FLDs implemented during 2017-18

#### Frontline demonstration on oilseed

S.	Crop/Variety	Thematic area	Technology demonstrated	Season & Year	Area		No.	Reason for		
No.					(ha)	)				shortfall in
					Proposed	Actual	SC/ST	Others	Total	achievement
1	Groundnut (GT-37 A)	ICM	Seed & Weedicide	Kharif 2017	20.00	20.00	13	37	50	
	(FLD Budget)		(Imezathapar 1 kg/ha),							
			Nutrient & Insecticde							
			(Imidachlorprid 17.8%)							
2	Mustard(RH-749)	ICM	Seed & Weedicide	Rabi-2017-18	50.00	50.00	38	87	125	
	CFLD		(Pendimethyline 3.3 lit/ha),							
			Nutrient & Insecticde							
			(Imidachlorprid 17.8%)							

#### Details of farming situation

S. No.	Сгор	Season	Farming situation	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall	No. of rainy days
			(RF/Irrigated)	-51-	N	Р	K	<b>F</b>			(mm)	
1	Groundnut (GT-37 A) (FLD Budget)	Kharif 2017	Irrigated	Sandy Loam	Low	Medium	Low	Wheat	11-18 June 2017	5-8 Oct., 2017		
2	Mustard(RH- 749) CFLD	Rabi- 2017-18	Irrigated	Loam	Medium	Medium	Low	Paddy	1-22 Oct. 17	11 March-5 April 2018		

#### Technical Feedback on the demonstrated technologies

S. N.	Crop	Feed Back
1	Groundnut (GT-37 A)	i. Best response for the control of weeds through Imezathapar @ 1 kg/ha.
	(FLD Budget)	
2	Mustard (RH-749)	i. Variety (RH-749) of Mustard is more productive comparison to other variety Bold seed.
		ii. Less damage of blue bull of pulses if pulses production in cluster.

#### Farmers' reactions on specific technologies

	ers reactions on speening	
<b>S.</b> N	Сгор	Feed Back
1	Groundnut (GT-37 A)	i. farmers like groundnut grain due to rich oil content & sweetness.
	(FLD Budget)	
2	Mustard (RH-749)	i. Variety (RH-749) of mustard farmers like this variety due to bold seed more oil contents.

#### Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organized	Date	Number of participants
1	Groundnut (GT-37 A)			
	Farmers Training	01	06.06.2017	22
	Field days	01	14.08.2017	38
2	Mustard (RH-749)			
	Farmers Training	01	08.10.2017	22
	Field days	02	18.02.2018	97
			12.03.2018	

### **Performance of Frontline demonstrations**

Category &	Th	Name of the	No. of	o. of Area		Yie	eld (q/ha)		%	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
Сгор	I nematic Area	technology	Farmers	(ha)	High	Dem Low	0 Average	Check	in Yield	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Groundnut (GT-37 A) (FLD Budget)	ICM	Seed & Weedicide (Imezathapar 1 kg/ha), Nutrient & Insecticde (Imidachlorprid 17.8%)	50	20	26.0	16.1	22.6	14.2	59	-	-	45300	102500	57200	2.26	40410	75000	27590	1.9
Mustard(RH- 749) CFLD	ICM	Seed & Weedicide (Pendimethyline 3.3 lit/ha), Nutrient & Insecticde (Imidachlorprid 17.8%)	125	50	31.4	24.3	26.8	18.2	37.36	18	14	23840	107200	83360	4.5	22750	72800	50050	3.2

**Frontline demonstrations on oilseed crops**(Cluster Frontline Demonstrations)

## Photographs of Oilseeds



FLD on Groundnut



FLD on Musatrd

#### Frontline demonstration on pulse crops

Category		Name of the	No. of	Area		Yield (q/ha)			%	Ot Parai	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
& Crop	Thematic Area	technology	Farmers	(ha)		Dem	D	Check	Change in Vield	Domo	Chook	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR	
					High	Low	Average		III TICIU	Demo	CHECK	Cost	Return	Return	( <b>R</b> /C)	Cost	Return	Return	( <b>R</b> /C)	
Black Gram	INM& WM	Increase production of pulses (Black gram) through nutrient & weed mgt.	100	40	14.6	10.2	13.8	9.2	48	-	-	18400	66260	47840	3.6	17800	44160	26360	2.4	
Lentil	INM/Varietal	Increase production of pulses (Lentil) through nutrient & crop mgt.	36	14.4	26.4	22.3	24.5	17.6	39.2			23400	102900	79500	4.4	21850	73920	52070	3.3	
Green Gram (IPM 2-3)	INM& WM	Increase production of pulses (Green gram) through nutrient & weed mgt.	25	10	Under	Progress														

## Photographs of Pulses



FLD on Lentil (PL-8)



FLD Field( Black Gram (PU-31)

FLD on Moong IPM 2-3

FLD	on other crops	5								
S. No.	Crop/Variety	Thematic area	Technology demonstrated	Season & Year	Area	(ha)	No. 0	f farmers/de	emo.	Reason for shortfall in
					Proposed	Actual	SC/ST	Others	Total	acmevement
	Cereals crops									
1	Paddy (PB-1509)	Varietal introduction	Yield improvement through use of improved & quality seed of scented rice	Kharif 2017	4.0	4.0	04	15	20	
2	Paddy(PB- 1509)	WM	Weed management through Bispyribac Sodium 10%	Kharif 2017	4.0	4.0	4	6	10	
3	Paddy(PB-1)	IDM	Neck blast mgt. through fungicides	Kharif 2017	4.0	4.0	2	8	10	
4	Guava(L-49)	IPM	Mgt. of fruit borer through Pheromone trap &methyleujinol lure	Kharif 2017	4.0	4.0	2	8	10	
5	Wheat(HD- 2967)	IDM	Yellow rust mgt. through seed treatment & spray of Propiconazole fungicide spray	Rabi 2017- 18	4.0	4.0	2	8	10	
6	Wheat(HD- 2967)	WM	Integrated weed management	Rabi 2017- 18	4.0	8.0	7	13	20	
7	Wheat(HD- 2967)	IPNM	Popularization of water soluble fertilizer	Rabi 2017-18	2.0	2.0	-	10	10	
8	Wheat (HD-3086)	Varietal introduction	To demonstrate the yield potential & popularization of timely sown wheat variety	Rabi 2017-18	3.2	3.2	02	06	8	-
	Horticulture cro	ops								
9	Bottle gourd (NDBGH-4)	Varietal introduction	To demonstrate the yield potential of bottlegourd	Zaid 2017	1.0	1.0		15	15	
10	Early sowing Cauliflower (Sabur Agrim)	Varietal introduction	To Demonstrate yield potential of Cauliflower	Kharif 2017	1.0	1.0		16	16	
11	Vegetable pea(Kashi Uday)	Varietal introduction	To Demonstrate yield potential of vegetable pea	Rabi 2017-18	1.0	1.0		04	04	
Com	nercial crop									
12	S.cane	IPM	Management of vtermite and white grub	Zaid 2017	4.0	4.0	1	9	10	

#### Details of farming situation

S.	Crop	Season	Farming	Soil type	e Status of soil		Previous crop	Sowing/	Harvest date	Seasonal	No. of	
No.			situation		Ν	Р	K		Transplanting date		rainfall (mm)	rainy days
	<b>Cereals Crops</b>											
1	Paddy (PB-1509)	Kharif 2017	Irrigated	Loam	L	М	L	Wheat	22 July, 17	26 Oct., 17	55	28
2	Paddy (PB-1509)	Kharif 2017	Irrigated	Loam	L	М	L	Wheat	10-15 July, 17	05-12 Nov., 17		
3	Paddy(PB-1)	Kharif 2017	Irrigated	Loam	L	М	L	Wheat	13-17 July, 17	11-15 Nov., 17		
4	Guava(L-49)	Kharif 2017	Irrigated	Loam	L	М	L	Guava	28-30 may 2017	25 August 2017		
5	Wheat(HD-2967)	Rabi 2017-18	Irrigated	Loam	L	М	L	Paddy	14 Nov., 17	07 April, 18		
6	Wheat(HD-2967)	Rabi 2017-18	Irrigated	Loam	L	М	L	Paddy	14 Nov., 17	07 April, 18		
7	Wheat(HD-2967)	Rabi 2017- 18	Irrigated	Sandy Loam	L	М	L	Paddy	18-22 Nov., 17	22-26 April, 18	22	06
8	Wheat (HD-3086)	Rab 2017-18	Irrigated	Loam	L	М	L	Paddy	16 Nov., 17	09 April, 18	41	16
	Horticulture crops											
9	Bottle gourd (NDBGH-4)	Zaid 2017	Irrigated	Loam	М	L	M	Maithi	12.03.17	02.05.17	12	05
10	Early sowing Cauliflower (Sabur Agrim)	Kharif 2017	Irrigated	Loam	М	L	М	Cabbage	20.06.17 & 25.07.17	21.09.17	42	13
11	Vegetable pea(Kashi Uday)	Rabi 2017- 18	Irrigated	Loam	М	L	М	Early cauliflower	05.11.17	29.01.18	12	03
Comn	ercial crop					_						
12	s.cane	Zaid 2017	Irrigated	Loam	L	L	М	Wheat	15-18 April,2017	10-15 Feb 2018	-	-

#### Technical Feedback on the demonstrated technologies

S. N.	Сгор	Feed Back
	Cereals Crops	
1	Paddy(PB-1509)	i. Variety PPB-1509 takes less crop duration(114-119) as comparison to PB-1(140-142)
		ii. Disease incidence in PPB-1509 is not seen while it is about 15-20% in PB-1.
2	Paddy(PB-1509)	Right time application of herbicide more effective and good result.ii. It is highly effective herbicide in paddy field (2-3leaves stages in weeds).

		iii. Grains quality is batter due to no residual effect on crop and soil health.
3	Paddy (PB-1)	i. Proper Proper management of neck blast disease in treated plot.
4	Guava(L-49)	Lures continue tag 10 days before harvesting
5	Wheat(HD-2967)	Yellow rust more prevalence in Zin deficiency field
6	Wheat(HD-2967)	Good Combination clodinophop +metsulphorun
7	Wheat(HD-2967)	i. Due to IPNM the grains were bold & shining. Yield increase (22.81%).
8	Wheat (HD-3086)	i. Variety HD-3086 takes more or less same crop duration as PBW-502.
		ii. The lodging in HD-3086 is less in comparison to PBW-343 (12-18%)
		iii. Yellow rust and blight incidence in HD-3086 is none while it is about 18-22% in PBW-343.
	Horticulture Crops	
9	Bottle gourd (NDBGH-4)	i. The bottle gourd variety NDBGH-4 more prefer by the farmers due to high yield potential.
		ii. High yield early fruiting green color fruit.
10	Early sowing Cauliflower	i. The cauliflower variety sabur agrim flower compact and pure white color.
	(Sabur Agrim)	ii. Early cauliflower variety sabur agrim higher yield and average weight 500-600 gm than the local check.
11	Vegetable pea(Kashi Uday)	i. Pods are long, attaractive, well filled with high shelling percentage gives as average yield 72.0 q/ha.
		ii. This variety is popular in UP
	Commercial crop	
12	Sugarcane	Bio control should be applied before sowing and 3month after sowing

#### Farmers' reactions on specific technologies

<b>S.</b> N	Сгор	Feed Back
	Cereal Crops	
1	Paddy(PPB-1509)	i. Rice of PPB-1509 is longer than PB-1.
		ii. Market potential of PPB-1509 is better than PB-1 due to their high demand.
2	Paddy (PB-1509)	i. Good quality of fungicides should be available in local level
3	Paddy (PB-1)	i. All weeds are kill
4	Guava(L-49)	i. Lures continue tag 10 days before harvesting
5	Wheat(HD-2967)	i. Yellow rust more prevalence in Zin deficiency field
6	Wheat (HD-2967)	i. Good Combination clodinophop +metsulphorun
7	Wheat (HD-2967)	i The farmer appreciated the production with IPNM.
		ii. The soil chemical properties(Phosphorus & Potash status change in low to medium) were positive in IPNM
8	Wheat (HD-3086)	i. Grain size of HD-3086 is bold and its chapatti making quality is better than PBW-343 and it has good market potential.
	Horticulture Crops	
9	Bottlegourd(NDBGH-4)	i Farmer preferred due to high yield, good market price and average fruit weight 800-1.0 kg.
		ii. Cost of cultivation is less and market preferred for consumers.
10	Early sowing Cauliflower	i. Early sowing cauliflower variety sabur agrim more prepared farmers due to attractive color average weight and high demand in market
	(Sabur Agrim)	consumer.

11	Vegetable pea(Kashi Uday)	i. Plants are erect, dwarf, dark green color with 7-8 pods/plant
	Commercial crop	
12	Sugarcane	Termite and white grub insect not properly control without bio control

## Extension and Training activities under FLD

S. N.	Сгор	Activity	No. of activities organized	Date	Number of participants	Remarks
	Cereals Crops					
1	Paddy (PB-1509)	Farmers Training	01	13.07.2017	18	-
		Field days	01	18.09.2017	12	-
		Media Coverage	01	20.09.2017		-
2	Paddy (PB-1509)	Farmers Training	01	16.10.2017	35	-
		Field days	01	11.7.2017	20	-
		Media Coverage	01	-	-	-
3	Paddy (PB-1)	Farmers Training	01	03.06.2017	20	
		Field days	01	17.10.2017	32	
		Media Coverage	01	02.10.2017	-	
		Extn. Functionaries	01	02.05.2017	10	-
4	Guava(L-49)	Farmers Training	01	01.04.2017	20	-
		Field days	01	22.06.2017	32	-
		Media Coverage	01	17.07.2017	-	-
		_		27.08.2017		
				24.01.2018		
		Extn. Functionaries	01	05.08.2017	10	-
5	Wheat(HD-2967)	Farmers Training	01	24.10.2017	20	
		Field days	01	05.03.2018	29	
		Media Coverage	01	25.10.2017	-	
				20.11.2017		
		E to E sotions disc	01	19.02.2018	10	
		Extn. Functionaries	01	27.02.2018	10	-
6	Wheat (HD-2967)	Farmers Training	01	14.3.2018	38	
		Field days	01	2.11.2017	20	
		Media Coverage	01	-	-	
7	Wheat(HD-2967)	Farmers Training	01	15.12.2017	35	-
		Field days	01	08.03.2018	22	
		Media Coverage	01	16.12.2017		-
8	Wheat (HD-3086)	Farmers Training	01	14.11.2017	21	-

		Field days	01	10.02.2018	24	-
		Media Coverage	01	25.03.2018	-	-
9	Bottlegourd (NDBGH-4)	Farmers Training	01	09.03.2017	20	-
		Field days	01	23.06.2017	10	-
		Media coverage	01	24.06.2017	-	-
10	Early sowing Cauliflower	Farmers Training	01	15.06.2017	20	-
	(Sabur Agrim)	Field days	01	13.09.2017	22	-
		Media coverage	01	15.09.2017		-
11	Vegetable pea(Kashi	Farmers Training	01	14.09.2017	15	-
	Uday)	Field days	01	02.01.2018	10	-
		Media coverage	01	03.01.2018		
12	Sugarcane	Farmers Training	01	19.04.2017	20	
		Field days	01	22.02.2018	36	
		Media coverage	01	21.06.2017	-	
		Extn. Functionaries	01	24.09.2017	10	

#### **Performance of Frontline demonstrations**

Crop	Thematic	Name of the	No. of	Area		Yield	d (q/ha)		%	Other pa	rameters	*Econom	ics of demo	nstration (F	Rs./ha)	*Eco	nomics of a	heck (Rs./h	na)
	Area	demonstrated	Farmers	(na)		Demo	1	Check	Increase	Demo	Check	Gross	Gross	Net	**	Gross	Gross	Net	**
		uemonsti ateu			Н	L	Avg.					Cost	Return	Return	BCR	Cost	Return	Return	BCR
Cereals																			
										Neck blas	st disease								
Paddy(PB-	Varietal	Use of improved	20	4.0	61.	54.00	58.50	46.6	25.54	No. of	' plant	34590	157950	123360	4.57	34050	125820	91770	3.70
1509)	introduction	& quality seed of			5					affecte	d/10m2								
		scented rice (PB-								2	13								
		1509)								% со	ntrol								
		,								82									
										Lod	ging								
										No. of	plant								
										lodged	/10 m2								
										1	5								
										82									
										We	eds								
Paddy(PB-	Weed	Weed	10	4.0	62.	48.3	56.2	41.8	34.4	No	. of	34950	168600	133650	4.8	33640	125400	91760	3.7
1509)	control	management			4					weeds/so	qm after								
		through								40 d	lays								
		Bispyribac								3	19								
		Sodium 10%								% dec	crease								

										84									
										Shea	th blight								
D 11 (DD 1)	IDM	0 1	10	1.0	10	20.6	41.7	26.5	127	inf	estation	40750	102750	(2000	2.54	20500	01050	50750	2.2
Paddy (PB-1)	IPM	Seed	10	4.0	42. 7	39.6	41.5	36.5	13.7	NO. affec	of plant ted/10m2	40750	103/50	63000	2.54	38500	91250	52750	2.3
		Mancozeb+			,					25	11								,
		Carbendazi								%	Control								
		m@3gm/kg								56									
		seed & spray								50									
		Tricylazole/																	
		0.1%																	
		0.170																	
Guava(L-	IPM	Management	10	4.0	35	285.	325.	245.5	32.4	25.2	81.3	25230	260000	234770	10.2	21950	196400	174450	8.9
49)		of fruit fly			0.2	3	4												
,		through																	
		Pheromone																	
		ol																	
		lure(20Traps																	
		/ha), Lure																	
		change after																	
		25 days																	
		times																	
										Yel	low rust								
										No. of	plant/10m2								
Wheat	IDM	Mancozeb+	10	4.0	49.	46.3	47.7	38.2	25.0	5	12.3	29410	71625	42215	2.43	27852	57300	29449	2.0
(HD-2967)		Carbendazi			2		5			%	change	_							6
		m@3gm/kg								59.3									
		Propiconazol																	
		e@0.1%&Te																	
		buconazole <sup>2</sup>																	
		<u>5EC@0.1%</u>																	
Wheat	WM	Weed	20	8.0	66.	45.3	62.2	40.6	53.2	1	Weed	33480	101075	67595	3.0	32840	65975	33135	2.0
(HD-2967)		management			1					pop	oulation	_							
		clodinofon1								NO. 01	weeds/m2								
		5% wp+Mets								1	1/								
		ulfuron								<b>%</b>	control								
		Methyl								94									
		20%WP																	
Wheat(HD	IPNM	Popularization of	10	2.0	62.	58.4	60.3	49.34	22.58			35590	138334.	102744.	3.89	37150	116057.	78907.1	3.1
-2967)		fertilizer			50		3						/5	/5			1	0	2
Wheat	Varietal	Timely sown	8	3.2	64.	54.80	61.50	48.80	26.02			36460	134602	98142	3.69	35940	106628	70688	1.97
	1		1		1	1	1	1	1	1		1	1	1	1	1	1	1	1

(HD-3086)	introduction	wheat variety (HD-3086)			40														
Horticulture																			
Bottle Gourd (NDBGH-4)	Varietal introduction	To demonstrate the yield potential of bottlegourd	15	1.0	535	475	498.7	388.17	28.47			49472	293458.8	248260.29	3.40	50792.94	230847.05	173054.12	1.50
Early Cauliflower (Sabour Agrim)	Varietal introduction	To demonstrate the yield potential of early cauliflower sowing	16	1.0	205	185	195.7 6	148.3	32.06			52696.15	352384.61	299726.92	5.68	54375.69	237292.3	182934.62	3.36
Vegetable pea(Kashi Uday)	Varietal introduction	To Demonstrate yield potential of vegetable pea	04	1.0	68. 5	76.5	71.77	54.27	32.30			41460	96896.25	55336.25	2.33	44452.5	73271.25	28818.75	1.64
Commercial cr	op	· · · ·																	
Sugarcane	IPM	B. bassiana and M.anisoplie for management of white grub and termite	5	2.0	106 8	86 5	925	810	14.1	27.5	15.7	153200	223200	70000	3.1	123800	18900	65200	1.5

## Photographs of FLDs



FLD on Sugarcane



FLD on Wheat



FLD on Wheat



FLD on Paddy



FLD on Cauliflower(Sabour Agrim)



FLD on Veg Pea

#### FLD on Livestock

Category	Thematic area	Name of the	No. of	No.of Units	Major pa	Major parameters		Other pa	arameter	Ecor	nomics of d	emonstrat	ion	Economics of check				
		technology	Farmer	(Animal/ Poultry/	(milk yie	(milk yield lit./day)		change (Fat %)			(Rs.)/day/	animal		( <b>Rs.</b> )				
		demonstrated		Birds, etc)	Demo	Check	in major	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR	
							parameter			Cost	Return	Return	( <b>R</b> /C)	Cost	Return	Return	( <b>R</b> /C)	
Milch animal	Fodder mgt.	Urea treatment of	10	20	6.8	6.1	10.2	3.9	3.8	320	535	215	1.67	300	495	195	1.65	
	_	paddy/wheat straw for																
		quality enrichment																
Milch animal	Animal nutrient	Mineral & vitamin	10	20	17.5	15.2	13.12	6.4	5.9	360	650	290	1.8	300	545	245	1.5	
	mgt.	supplementation																
Milch animal	Disease mgt.	De-worming	100	500	6.5	5.9	6.1	10%	40%	325	530	195	1.73	305	490	230	1.6	
		campaigning						infectation	infectation									

#### **Technical feedback:**

- Urea treated wheat straw reduced the dry period of dairy animal.
   By using of calcium is improvement in the digestive efficiency of buffalo, which brings many direct & indirect benefits its.

#### Farmer's reaction:

- > Urea treated wheat straw improve the animal health and digestibility for fodder.
  > By using of calcium improvement in the utilization of dry fodder and low wastage of fodder by the animals.
  > By using of calcium improvement in milk production and milk fat content as well as reproductive efficiency.

FLD on	Other	enterprises
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Category	Name of the technology	No. of Former	No.of	Major pa	Major parameters		nge Other parameter		Economi	ics of demor	stration (R	s.) or	Economics of check (Rs.) or Rs/unit				
	ucinonsti atcu	Farmer	units	Demo (vield)	Check	parameter	ameter Demo Check Gross		Gross Gross Net		BCR	Gross	Gross	Net	BCR		
						F	201110	chitth	Cost	Return	Return	$(\mathbf{R}/\mathbf{C})$	Cost	Return	Return	( <b>R</b> / <b>C</b> )	
Button mushroom	Spawn	10	10	29.2	22.1	32.1			123023	233600	110560	1.89	121560	176800	55240	1.45	
Value Addition to turmeric	NaHCo3	10	10	Shelf-life- 16 months	6 month	62.5	Aroma improve	Normal	150	200	50	1.33	133	170	37	1.2	
Preparation of aonla candy	KMS + Sugar	10	10	Shelf-life- 11 months	5 month	54.5	Aroma improve	Normal	65	89	24	1.4	58	72	14	1.24	

#### FLD on Kitchen Garden

#### No. of farmers - 10

#### **Observations:**

Name of vegetable	Kharif 2017	Rabi 2017-18	Rate	Income (Rs.)
			(Rs./kg)	
Bottle gourd	21 kg		10.00	210.00
Ridge guard	20 kg		10.00	200.00
Okra	16 kg		12.00	192.00
Pumpkin	15 kg		8.00	120.00
Coriender	6 kg		20.00	120.00
Methi (Kasturi)		12 kg	15.00	180.00
Spinach		14 kg	10.00	140.00
Radish		20 kg	10.00	200.00
Tomato		6 kg	10.00	60.00
Brinjal		10 kg	10.00	100.00
Lobia		10 kg	15.00	150.00
	Total:			1672.00

#### **Performance indicators:**

- Season wise availability Sufficient for family need.
- ➢ Improvement of general health − Better
- Monthly saving Rs. 139.00/month

#### **Observations:**

- Season wise availability already given
- Diet intake of more vegetables.
- Saving in monthly house hold expenditure Rs. 139/month

#### Farmer's reaction and Feed back:

Farmwomen now get fresh vegetables with pesticides by using their leasure time.

## Photographs of FLDs



FLD on Button Mushroom

FLD on Button Mushroom

FLD on Button Mushroom

## FLD under NEP, Post office linkage & NSFM-DWR

Crop	Thematic	Name of the	No. of	Area		Yield	(q/ha)		%	Other pa	rameters	*Economics of demonstration (Rs./ha) *Economics of check (I				check (Rs./	ha)		
	Area	technology	Farmer	(ha)		Demo		Check	Increase	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
		uemonstrateu			Η	L	Avg.					Cost	Return	Return		Cost	Return	Return	
NEP-Progra	amme-IAR	I (Varietal Demons	tration)																
Paddy																			
PB-1	ICM	To demonstrated the yield potential in paddy variety	10	2.4	62.4	48.3	56.2	41.8	34.9	258	209	34950	168600	133650	4.8	33640	125400	91760	3.7
Pusa-1592	ICM	To demonstrated the yield potential in paddy variety	4	1.0	51.2	38.6	48.6	41.2	17.9	-	-	32560	116640	84080	3.6	30450	98880	68430	3.3
Wheat																			
HD-3086	ICM	To demonstrated the yield potential in wheat variety	4	2	62.3	47.8	58.7	46.2	27.0	454	410	34580	111257	76677	3.4	33154	79695	46541	2.8
HD-2967	ICM	To demonstrated the yield potential in wheat variety	3	1.5	65.4	60.8	61.2	46.4	31.8	460	412	34580	117570	82990	3.5	33200	80040	46840	2.9
HD-3059	ICM	To demonstrated the yield potential in wheat variety	4	2	45.8	34.2	36.7	30.5	20.3	380	352	31460	85307	53847	2.0	29800	64612	34812	1.8
Palak																			
All Green	ICM	To demonstrated the yield potential in all green variety	3	0.1	284	225	265	192	38.0	-	-	29560	212000	182440	7.15	27840	153600	125760	5.51
Post office li	inkage- IAl	RI																	
Paddy PB- 1121	Varietal	To demonstrated the yield potential in paddy variety	6	2.0	52.8	42.4	48.8	40.2	15.64	-	-	36590	131760	95170	3.60	36010	108540	72530	3.01
Paddy Pusa- 1509	Varietal	To demonstrated the yield potential in Paddy variety	6	2.0	62.10	52.0	56.4	43.40	34.56	-	-	36590	152280	115690	3.90	360110	117180	81170	3.25
NSFM-DWR-	-Karnal					-							-				-	-	
Wheat- HPBW-0I, WB-02	Varietal	To demo.rated the yield potential in wheat variety	12	4.8	64.20	53.2	58.2	50.40	26.30	-	-	34960	125277	90317	3.58	345440	110394	75854	3.20

	No of			No. d	of Par	ticipant	S	
Thematic Area			Others			SC/ST		Grand
	Courses	Male	Female	Total	Male	Female	Total	Total
(A) Farmers & Farm Women								
I Crop Production							-	
IPNM	1	18	0	18	2	0	2	20
Weed Management	2	33	0	33	7	0	7	40
Cropping Systems	1	16	0	16	4	0	4	20
Integrated Crop Management	1	16	0	16	4	0	4	20
Il Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	1	17	0	17	3	0	3	20
III Soil Health and Fertility Management								
Nutrient Use Efficiency	1	16	0	16	4	0	4	20
Soil and Water Testing	2	34	0	34	6	0	6	40
IV Livestock Production and Management								
Dairy Management	2	31	0	31	9	0	9	40
Disease Management	1	17	0	17	3	0	3	20
Feed management	1	18	0	18	2	0	2	20
V Home Science/Women empowerment							<u>.</u>	
High nutrition diet	1	0	16	16	0	4	4	20
SHG	1	0	17	17	0	3	3	20
Storage loss minimization techniques	1	0	15	15	0	5	5	20
Value addition	1	0	14	14	0	6	6	20
VI Agril. Engineering	0	0	0	0	0	0	0	0
VII Plant Protection								
Integrated Pest Management	2	34	0	34	6	0	6	40
Production of bio control agents and bio pesticides	1	16	0	16	4	0	4	20
Seed treatment	1	17	0	17	3	0	3	20
VIII Plant Breeding								
Varietal diversification	1	17	0	17	3	0	3	20
IX Production of Inputs at site								
Seed Production	6	98	0	98	22	0	22	120
X Others (PI. Specify)								
TOTAL	28	398	62	460	82	18	100	560

## **III** Training Programme

#### Farmers' Training including sponsored training (On Campus)

### Farmers' Training including sponsored training (Off Campus)

				No. c	of Partic	cipants		
Thematic Area	No. of Courses		No. of Participants           Others         SC/ST           Male         Female         Total         Male         Female         Total           Male         Female         Total         Male         Female         Total           16         0         16         4         0         4           32         0         32         8         0         8           16         0         16         4         0         4           106         0         106         14         0         14           18         0         18         2         0         22           118         0         18         2         0         2           18         0         18         2         0         2           18         0         18         2         0         2           18         0         18         2         0         2           18         0         18         2         0         2           18         0         18         2         0         2           16         0         16         4         0 <th></th> <th>Grand Total</th>		Grand Total			
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	16	0	16	4	0	4	20
IPNM	2	32	0	32	8	0	8	40
Micro irrigation	1	16	0	16	4	0	4	20
Integrated Crop Management	6	106	0	106	14	0	14	120
Fodder production	1	18	0	18	2	0	2	20
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value	7	110	0	110	າາ	0	22	140
crops	1	110	U	110	22	U	22	140
b) Fruits								
Layout and Management of Orchards	1	18	0	18	2	0	2	20
Management of young plants/orchards	2	33	0	33	7	0	7	40
c) Ornamental Plants								
d) Plantation crops								
Production and Management technology	1	18	0	18	2	0	2	20
III Soil Health and Fertility Management								
Soil fertility management	1	16	0	16	4	0	4	20
Integrated Nutrient Management	2	32	0	32	8	0	8	40
Micro nutrient deficiency in crops	1	15	0	15	5	0	5	20
Nutrient Use Efficiency	3	46	0	46	14	0	14	60
Soil and Water Testing	2	34	0	34	6	0	6	40

IV Livestock Production and Management								
Dairy Management	3	53	0	53	7	0	7	60
Rabbit Management /goat	2	33	0	33	7	0	7	40
Disease Management	1	17	0	17	3	0	3	80
Feed & fodder management	3	52	0	52	8	0	8	60
Poultry management	1	18	0	18	2	0	2	20
V Home Science/Women empowerment								
Household food security	2	0	29	29	0	11	11	40
Design and development of low/minimum cost diet	1	0	16	16	0	4	4	20
Designing and development for high nutrient efficiency diet	2	0	31	31	0	9	9	40
Process & cooking	1	0	18	18	0	2	2	20
Rural craft	1	0	16	16	0	4	4	20
Storage loss minimization techniques	1	0	15	15	0	5	5	20
Value addition	1	0	15	15	0	5	5	20
Women empowerment	1	0	16	16	0	4	4	20
Location specific drudgery reduction technologies	1	0	14	14	0	6	6	20
Women & Child care	1	0	15	15	0	5	5	20
VI Agril. Engineering	0	0	0	0	0	0	0	0
VII Plant Protection								
Integrated Pest Management	7	117	0	117	23	0	23	140
Integrated Disease Management	2	31	0	31	9	0	9	40
Bio-control of pests and diseases	1	15	0	15	5	0	5	20
Seed treatment	1	16	0	16	4	0	4	20
Mushroom production	1	17	0	17	3	0	3	20
VIII Plant Breeding								
Storage	1	14	0	14	6	0	6	20
Varietal Diversification	2	34	0	34	6	0	6	40
IX Production of Inputs at site								
Seed production	6	99	0	99	21	0	21	120
X Others (PI. Specify)								
TOTAL	74	1034	185	1219	206	55	261	1480

## Training including sponsored training - CONSOLIDATED(On + Off campus)

	No. of	No. of Participants									
Thematic Area	Courses		Others	5		SC/ST		Grand			
	Courses	Male	Fema	le Total	Male	Female	Total	Total			
(A) Farmers & Farm Women											
I Crop Production											
IPNM	3	50	0	50	10	0	10	60			
Weed Management	3	49	0	49	11	0	11	60			
Cropping Systems	1	16	0	16	4	0	4	20			
Integrated Crop Management	7	122	0	122	18	0	18	140			
Micro irrigation	1	16	0	16	4	0	4	20			
Fodder production	1	18	0	18	2	0	2	20			
II Horticulture		-			-						
a) Vegetable Crops											
Production of low volume and high value crops	8	135	0	135	25	0	25	160			
b) Fruits											
Layout and Management of Orchards	1	18	0	18	2	0	2	20			
Management of young plants/orchards	2	33	0	33	7	0	7	40			
c) Ornamental Plants	0	0	0	0	0	0	0	0			
d) Plantation crops	0	0	0	0	0	0	0	0			
Production and Management technology	1	18	0	18	2	0	2	20			
III Soil Health and Fertility Management											
Nutrient Use Efficiency	1	16	0	16	4	0	4	20			
Soil and Water Testing	4	68	0	68	12	0	12	80			
Soil fertility management	1	16	0	16	4	0	4	20			
Integrated Nutrient Management	2	32	0	32	8	0	8	40			
Micro nutrient deficiency in crops	1	15	0	15	5	0	5	20			
Nutrient Use Efficiency	3	46	0	46	14	0	14	60			
IV Livestock Production and Management											
Dairy Management	5	84	0	84	16	0	16	100			
Disease Management	2	34	0	34	6	0	6	40			
Rabbit Management /goat	2	33	0	33	7	0	7	40			
Feed & fodder management	4	70	0	70	10	0	10	80			

Poultry management	1	18	0	18	2	0	2	20
V Home Science/Women empowerment								
Designing and development for high nutrient efficiency diet	3	0	47	47	0	13	13	60
SHG	1	0	17	17	0	3	3	20
Storage loss minimization techniques	2	0	30	30	0	10	10	40
Value addition	2	0	29	29	0	11	11	40
Household food security	2	0	29	29	0	11	11	40
Design and development of low/minimum cost diet	1	0	16	16	0	4	4	20
Process & cooking	1	0	18	18	0	2	2	20
Rural craft	1	0	16	16	0	4	4	20
Women empowerment	1	0	16	16	0	4	4	20
Location specific drudgery reduction technologies	1	0	14	14	0	6	6	20
Women & Child care	1	0	15	15	0	5	5	20
VI Agril. Engineering	0	0	0	0	0	0	0	0
VII Plant Protection								
Integrated Pest Management	9	153	0	153	27	0	27	180
Production of bio control agents and bio pesticides	1	16	0	16	4	0	4	20
Seed treatment	2	33	0	33	7	0	7	40
Integrated Disease Management	2	31	0	31	9	0	9	40
Bio-control of pests and diseases	1	15	0	15	5	0	5	20
Mushroom production	1	17	0	17	3	0	3	20
VIII Plant Breeding								
Varietal diversification	3	51	0	51	9	0	9	60
Storage	1	14	0	14	6	0	6	20
IX Production of Inputs at site								
Seed Production	12	197	0	197	43	0	43	240
TOTAL	102	1432	247	1679	288	73	361	2040

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

Mushroom Production	2	13	0	13	7	0	7	20
Seed production	2	16	0	16	4	0	4	20
Vermi-culture	2	14	0	14	6	0	6	20
Bio-control	1	7	0	7	3	0	3	10
Nursery Management of Horticulture crops	2	15	0	15	5	0	5	20
Dairying	1	7	0	7	3	0	3	10
Poultry production	1	8	0	8	2	0	2	10
Post Harvest Technology	1	0	7	7	0	3	3	10
Rural craft	1	0	8	8	0	2	2	10
Value addition	1	0	7	7	0	3	3	10
TOTAL	14	80	22	102	30	8	38	140

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

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

2	15	0	7 15 7	5	0	5	20
2 1	7 15 7	0	7 15 7	5 3	0	5	20 10
1 2 1	7 15 7	0 0	7 15 7	5 3	0	5 3	20 10
2 1	7 15 7	0	7 15 7	5 3	0	5 3	20 10
2	15	0	7 15	5 5	0	5	20
1 2	15	0	15	ა ნ	0	5	20
		: 0					
4	7	^	7	ე	Δ	3	10
2	14	0	14	6	0	6	20
2	13	0	13	/	0	1	20
	2 2 2	2 13 2 16 2 14	2         13         0           2         16         0           2         14         0	2         13         0         13           2         16         0         16           2         14         0         14	2         13         0         13         7           2         16         0         16         4           2         14         0         14         6	2         13         0         13         7         0           2         16         0         16         4         0           2         14         0         14         6         0	2         13         0         13         7         0         7           2         16         0         16         4         0         4           2         14         0         14         6         0         6

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

Bio-fertilizer	1	8	0	8	2	0	2	10
TOTAL	1	8	0	8	2	0	2	10

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

Integrated Pest Management	2	13	0	13	7	0	7	20
IDM	1	6	0	6	4	0	4	10
IPNM	2	14	0	14	6	0	6	20
ICM	2	16	0	16	4	0	4	20
Low and high volume of vegetable crop	1	8	0	8	2	0	2	10
Management of orchard	1	8	0	8	2	0	2	10
Nursery management in horticulture crop	1	9	0	9	1	0	1	10
Seed production	2	13	0	13	7	0	7	20
Management in farm animals	2	15	0	15	5	0	5	20
Animal health management	1	5	0	5	5	0	5	10
Production & use of organic input	2	15	0	15	5	0	5	20
Soil & Water Testing	1	5	0	5	5	0	5	10
Kitchen garden	1	0	7	7	0	3	3	10
Women & Child care	1	0	5	5	0	5	5	10
TOTAL	20	127	12	139	53	8	61	200

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

Integrated Pest Management	2	13	0	13	7	0	7	20
IDM	1	6	0	6	4	0	4	10
IPNM	2	14	0	14	6	0	6	20
ICM	2	16	0	16	4	0	4	20
Low and high volume of vegetable crop	1	8	0	8	2	0	2	10
Management of orchard	1	8	0	8	2	0	2	10
Nursery management in horticulture crop	1	9	0	9	1	0	1	10
Seed production	2	13	0	13	7	0	7	20
Management in farm animals	2	15	0	15	5	0	5	20
Animal health management	1	5	0	5	5	0	5	10
Production & use of organic input	2	15	0	15	5	0	5	20
Bio-fertilizer	1	8	0	8	2	0	2	10
Soil & Water Testing	1	5	0	5	5	0	5	10
Kitchen garden	1	0	7	7	0	3	3	10
Women & Child care	1	0	5	5	0	5	5	10
TOTAL	21	135	12	147	55	8	63	210

#### Table. Sponsored training programmes

	No. of	No. of Participants								
Area of training	Course	General			SC/ST			Grand Total		
······································	8	Male	Female	Total	Male	Fe- male	Total	Male	Fe- male	Tota l
Integrated crop and farm management (FTT)	4	115	16	131	69	0	69	184	16	200
Plant variety and farmers right (ICAR)	1	70	10	80	21	0	21	91	10	101
Spice production raining(SAU)	1	55	15	70	4	6	10	59	21	80
Safe use of pesticide (HIL)	1	230	35	265	10	30	40	240	65	305
Hosre owners training(Brooks)	1	15	10	25	16	22	38	31	32	63
Total	8	485	86	571	120	58	178	605	144	749

Name of sponsoring agencies involved

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

		No. of Participants								
A rea of training	No. of	General		SC/ST			Grand Total			
Area of training	Courses	Male	Fe-	Total	Male	Fe-	Total	Mala	Fomolo	Total
			male	2000		male		whate	remate	Total
Mushroom production	2	127	5	132	15	2	17	142	7	149

## **Photographs of Training**





**Training on Mushroom Production** 



PF Trainig on



PF training on bottle gourd



**Training on Plant Protection** 



**RY Training on Poultry** 

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	811	842	32	874
Diagnostic visits	532	1285	172	1457
Field Day	38	845	115	960
Group discussions	12	474	52	526
Kisan Ghosthi	24	7748	225	7973
Film Show	27	942	25	967
Self -help groups	2	22	2	24
Kisan Mela	5	2122	212	2334
Exhibition	5	511	175	686
Scientists' visit to farmers field	472	2234	182	2416
Plant/animal health camps	2	1590	115	1702
Farm Science Club	1	25	4	29
Ex-trainees Sammelan	3	153	15	168
Farmers' seminar/workshop	4	182	21	203
Method Demonstrations	118	118	0	118
Celebration of important days (Honey Bee Day & Awareness Programme)	2	225	45	270
Special day celebration (Mahila Kisan Diwas & Kisan Samman Diwas)	2	252	22	274
Exposure visits	4	202	6	208
World Soil Health Day programme	1	275	55	331
Sankalp Se Siddhi Programme	1	804	53	857
Swachh Bharat Abhiyan Programme	4	165	10	175
Farmers Scientist Interaction	1	25	8	33
Total	2071	21041	1546	22585

#### **IV. Extension Programmes**

#### **Details of other extension programmes**

Particulars	Number	
Electronic Media (CD./DVD)	5	
Extension Literature	18	
News paper coverage	322	
Popular articles	24	
Radio Talks/programmes	532	
TV Talks/show	05	
Animal health camps (Number of animals treated)	1850	
News Letter (Quartly) Krishi Takniki Sandesh	04	
Training manual	03	
Booklet	04	
Research paper 09		
Total	2776	

#### **Mobile Advisory Services**

No. of KVKs	No. of SMSs sent	No. of farmers benefited
	114	1025

## **Photographs of Extension Activities**



**Kisan Training Programme** 



**Exposure Visit at KVK** 



**KVK Review Meeting** 



Workshop on PPV&FRA Act 2001



Training on protected cultivation



**Farmers Technical Training** 



Diagnostic visit at farmer's field

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies	5	324	
	Lectures organised	20	324	
	Exhibition	3	278	
	Film show	16	311	
	Fair	1	275	
	Farm Visit	74	2478	
	Diagnostic Practicals	24	1382	
	Distribution of Literature (No.)	22	2465	
	Distribution of Seed (q)	25	74	
	Distribution of Planting			
	materials (No.)	16	33800	
	Bio Product distribution (Kg)	684	124	
	Bio Fertilizers (q)	27	205	
	Distribution of fingerlings			
	Distribution of Livestock			
	specimen (No.)			
	Total number of farmers visited			
	the technology week	3	1343	
	Total:	920	43383	

### **V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS**

## V. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Enterprise	Crop	Variety	Quantity (qtl.)
	~		
CEREALS	Paddy	Pusa Sugandh-6, Pusa-1460, PPB-1509	622
	Wheat	PBW-621, 550,HD -2967,PBW-590, WH-1105, DBW-	684
		71 & DBW-88	
OILSEEDS	Mustard	Pusa Mustard-26, RP-9	278
PULSES	Urd	PU-31	165
Potato	Potato	Kufri Surya & Kufri Sutlaj	395
Commercial crop	Sugarcane	Co-0238, Co-118 & CoS-5011	3452
		Total:	5596*

\* Above seed production will be done at farmer's field under the guidance of KVK Scientists

## VI. Production of planting materials by KVKs

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Vegetable seedlings	Onion	Agrifound Light Red		20200	1750.0	16
	Brinjal		Navkiran & Nishant	2000	600.00	05
	Cauliflower	Sabour Agrim		2000	600.00	05
Fruits	Mango	Dusheri, Langra & Chausa		600	21000.00	05
Fodder Slips	Fodder	Hybrid napier Gini grass	Slips	9000	3000.00	20
Medicinal and Aromatic	Neem plant			10225	0.0	204
			Total	44025	26950.00	255

Bio Products	Name of the bio-product	Quantity	Value	No. of Farmers
		(kg.)	( <b>Rs.</b> )	
Vermi compost	Vermi compost	2700	80500.00	205
	Worms	1	400.00	02
Bio-fungicide	B.bassiana	16	2080.00	10
	M.anisoplie	10	1300.00	5
	T.harzianum	632	82160.00	316
Mushroom	Agaricus bisporus (White Button)	20	1600.00	10
Total		3379	168040	548

### **Production of Bio-Products**

#### VII. Details of Soil, Water and Plant Analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples tested	1016	921	86	54780.00
Soil health card prepared		3016		
Total	1016		86	54780.00

#### VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
Saharanpur	01 (14.12.2017) (41 participants)

#### **IX. NEWSLETTER/MAGAZINE :**

Name of News letter/Magazine	No. of Copies printed for distribution
Krishi Takniki Sandesh	1000

### X. PUBLICATIONS

Category	Number					
Research Paper	09					
Technical bulletins	02					
Technical reports	21					
Popular articles	24					
Extension literature	18					
Others (pl. specify)						
Booklet	04					
Training manual	03					

## **XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM:** Nil

Activities conducted								
No. of Training	No. of	No. of plant materials	Visit by	Visit by officials(No.)				
programmes	Demonstrations	produced	farmers(No.)	-				

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

#### Introduction of alternate crops/varieties

Crops/cultivars	Area (ha)	Extent of damage	Recovery of damage through KVK
Paddy	40250	Disaster (3015 ha)	2145 ha Area covered by pulses and
Wheat	3122	Hail Strom & Thunder strom 1665 ha	Surveys have been completed by revenue deptt.

### Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Pulses		
Urd (PU-31 & Sakher-1 etc)	3635.00	6424
Mung (Samrat & Pant mung-2 etc)	905.00	1176
Lentil (PL-406)	1392.00	1729
Vegetable crops		
Onion (Agri found light & dark red)	975.00	1578
Early cauliflower (Sabur agrim & Pusa santhetic etc.)	712.00	1305
Bottle gourd (NDBGH-4/Pusa Naveen/Narendra Rashmi/Anokhi/Warad)	1085.00	1272
Bitter gourd (Aman/Chiyatayi/208/Chaman etc)	971.00	1022
Cucumber (Malani/Chiyatayi/180/786 etc)	885.00	798
Flower Crops		
Tuber crops(Prajawal & Arka Nirantar)	315.00	475
Jarbera & Gladiolus	472.00	610
Potato(Kufri Khayati & Kufri Bahar etc)	1012.00	1626
Sugarcane		
Varieties(Co-0238, Co-0118, Co-5011 & CoS-7250, 1434)	13250.00	18180
Total	25609.00	36195

## Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants
Vaccination and balance ration	35	612
Sterility management	03	733
Fodder management	06	108
Piggery management	04	34
Fishries management	02	22
Total	50	1509

## Animal health camps organised

Number of camps	No.of animals	No.of farmers
Two camps with support of Deptt. of Animal Husbandry	1850	1702
Total	1850	1702

### Seed distribution in drought hit states

Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Hybrid Napier grass slips	15375 no	53.00	415
Pusa Chari-9	412 kg	15.4	48

#### Large scale adoption of resource conservation technologies:

	0	
Crops/cultivars and gist of resource conservation	Area (ha)	Number of farmers
technologies introduced		
Drum seeded rice paddy cultivation	10112.00	16110
Improved trench method of sugarcane	29575.00	4835

## Awareness campaign

Details	etails Meetings		G	osthies	Field days		Far	mers fair	Exhibition		Film show	
	No	No.of	No	No.of	No.	No.of	No.	No.of	No.	No.of	No.	No.of
		farmer		farmer		farmers		farmers		farmers		farmers
Disaster	12	215	28	2142	21	358	6	3125	5	1475	13	742
mgt.,												
Unseasonal												
rain,												
Hailstrom												
& Cold												
waves												
Total	12	215	28	2142	21	358	6	3125	5	1475	13	742

#### **XIV. CASE STUDIES**

#### Introduction of cauliflower variety SabourAgrim in Saharanpur district

**Problem Identified**:Farmers of Saharanpurdistrict mainly grow hyrbid varieties of cauliflower for good remuneration. Farmers are growing Doctor super variety of cauliflower. With this variety farmers not getting good yield & income. They invest more money on seed due to which cost of cultivation become very high in comparison to return, so, open pollinated (O.P.) varieties having good quality and quantity were urgently required. Keeping the above view KVK Saharanpur introduced Sabour Agrim variety of cauliflower in 2013-14 in Saharanpur district. which is shown in the month of May-June and crop harvested in the month of Sept. to 15<sup>th</sup> Oct. The avg. yield of Sabour agrim variety was found 205q/ha. Farmers gets the Rs. 25-30/kg resulting farmers are earning Rs. 2.05-2.75 lakhs. Now, Sabour agrim variety of cauliflower covered 475-500 ha. area of district. Farmers also produced seeds of this variety. Farmers of Saharanpurdistrict mainly grow Cauliflowervarieties for good remuneration. They invest more money on seed due to which cost of cultivation become very high in comparison to return. So open pollinated (O.P.) varieties having good quality and quantity were urgent ally required.

	Variety	Yield (q/ha.)	COC (Rs.)	Gross Return (Rs.in lakh)	Net Return (Rs.in lakh)	B:C
Demo	Sabour Agrim	204.95	50342.5	2.05	1.51	1:3.80
F.P.	Doctor Super	143.5	51657.5	1.24	0.78	1:2.43

#### Economic Performance of open pollinated (O.P.) variety, SabourAgrim

Year	I	nitial interventio	n	Lateral spread in new areas			
	Area (ha)	No. of villages	No. of farmers	Area (ha)	No. of villages	No. of farmers	
2012-13	1.0	4	10	-	-	-	
2013-14	4.5	10	55	10.5	15	87	
2014-15	9.5	27	109	127.0	29	319	
2015-16	12.6	48	127	275.0	55	485	
2016-17	18.5	52	148	305.0	62	512	

#### Horizontal spread of technology

**Impact:** This variety was introduced by KVK in Saharanpur district in year 2012-13. Farmers can gain a handsome profit by growing Sabour agrim adopting the transplantation and agronomic practices. The potentials of the improved Cauliflower verity for higher yield and income were communicated to the farmers through demonstrations. With efforts made by KVK, SRE many farmers have adopted new technology and this is acceptable by the farming community in Saharanpur and verity has lateral spread about 500ha.In village Mubarkpur. Now, *Sabour agrim* variety of cauliflower covered 250-300ha. area of district. Farmers also produced seeds of this variety.



View of FLD on Cauliflower at farmer's filed

Field day at farmer's field

## 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
1	Saharanpur KVK	SVPUA&T, Meerut	Dr. I.K. Kushwaha

#### **B.** Details on Farmer's visit

S. No	Purpose of visit	Number of farmer's visited
01	Technology Information	2155
02	Technology Products	275
03	Others if any pl. specify	112

### C. Facilities in the ATIC which are in operation

S. No	Particulars	Availability (Please $$	Number of ATICs
		mark)	
01	Reception counter		1
02	Exhibition / technology museum		1
03	Touch screen Kiosk		6
04	Cafeteria		1
05	Sales counter		1
06	Farmer's feedback register		1
07	Others if any (please specify)		2

#### **D.** Technology information provided

#### **D.1. Details on technology information**

S. No	Information category	Number of ATICs	Total number of farmers benefitted			Ca	ntegory of info	rmation		
				Varieties / hybrids	Pest mgt.	Disease mgt.	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		2275	238	422	675	221	377	224	118
02	Video shows		112							
03	Letters received									
04	Letters replied									
05	Training to farmers / technocrats / students									
06	specify									

#### **D.2**. Publications (Print & Electronic media)

S. No	Particulars	Number sold	Revenue generated in Rs.	Number of farmers benefited
01	Books			
02	Technical	5		

	bulletins		
03	Technology		
	Inventory		
04	CDs	1	
05	DVDs		
06	Video films		
07	Audio CDs		
08	Others if any		
	(please specify)		

## E. Technology Products provided

S. No	Particulars	Quantity	Unit of quantity	Value in Rs.	Number of farmers benefited
01	Seeds		Quintal		
02	Planting materials		Numbers		
03	Livestock		Numbers		
04	Poultry birds		Numbers		
05	<b>Bio-products</b>		Quintals - 6.58	85540.00	324
06	Others pl. specify				

## F. Technology services provided

S. No	Particulars	Number of farmers benefited
01	Soil and water testing	1014
02	Plant diagnostics	982
03	Details about the services to line Departments	65
04	Others if any (please specify)	

## ATIC(Agricultural Technology Information Centre) Activities Total budget : Rs. 8.00 Lakhs

SI. No.	Items	Expenditure (Rs. in lakh)	Status
1	Electronic items(LED, LapTop, LCD etc)	4.37	Completed
2	Furniture	0.80	Completed
3	Room repairing & finishing	2.40	Completed
	Total	7.57	





## **Special Programme**

## **PPV&FRA Act 2001 Awareness Programme**

Venue	Date	No. of participants
KVK Training Hall	23.02.2017	110





## New India Manthan "Sankalp Se Siddhi" Programme

Venue	Date	Participants	Chief Guest	Bud	get(Rs.)
				Release	Expenditure
Village - Miragpur Block - Deoband	29.08.2017	853	Hon'ble MP Sri. Raghav Lakhanpal Sharma Saharanpur (U.P.)	75100.00	72305.00



Sri Raghav LakhanPal Sharma Hon'ble MP innugrated the programme



Sri Raghav LakhanPal Sharma Hon'ble MP given oath for New India Manthan Sankalp Se Sidhhi on dated 29.08.2017

## **World Soil Health Day Programme**

### Soil health cards distribution: 718



Soil health card distributed: 718 Soil health card distribution by Dr.Dharam Singh Saini, Minister of State U.P. (05.12.17)

## Status of IFS Module at KVK

Area	Units	Budget (Rs in lakhs)		
		Release	Expenditure	
Village - Miragpur Deoband	<ul> <li>Poultry</li> <li>Fish Pond</li> <li>Vermi Compost</li> <li>Pashu Choclate</li> <li>Bee-keeping</li> <li>Crop Cafeteria</li> </ul>	6.00	5.14	



## Kisan Kalyan Diwas/Workshop (02.05.2018)



Publicity through Vallabh Community Radio Station KVK Saharanpur



Literature Published and distributed among the farmers



Kisan Varta in Block Baliyakheri



**Commissioner and CDO Visit in KVK** 

stall



Farmers gathering in Kisan Kalyan diwan



Kisan Varta in Block M.Bab

## **Workshop on Export Quality Rice Production**

To promote the export basmati rice KVK Saharanpur organized one day workshop on export quality rice production on dated 13.07.2017 at Skylarc Hotel Saharanpur.

Venue	Date	No. of participants	Chief guest
Skylarc Hotel Saharanpur	13.07.2017	225	Prof. Gaya Prasad, Hon'ble VC, SVPUA&T, Meerut Dr. S.K. Sachan, DE, SVPUA&T, Meerut Sri. P.K. Pandey, IAS, DM Saharanpur Sri Sanjeev Kumar Ranjan, IAS, CDO, Saharanpur





## **World Honey Day Programme**

The World Honey Day Programme organized by KVK Saharanpur on dated 19.08.2017 at Company bagh Saharanpur. Sri. Dharam Singh Saini Hon'ble State Minister(Ayush) U.P. was the Chief guest of this programme. Total 483 farmers participated this programme for promotion of Bee-keeping in the district KVK Saharanpur distributed 10000 Neem plants to the farmers. Dr. Satya Prakash, Prof. & Head, KVK Saharanpur told that Bee-keeping provide the honey and indirectly increase the crop productivity through pollination.



## Mahila Kisan Diwas Programme

Venue	Date	No. of participants	Chief guest
KVK training Hall	15.10.2017	92	Smt. Dayawati Chaudhary





## Visitiors visit at Krishi Vigyan Kendra Saharanpur



Dr. A.K. Singh DDG (Ag. Extn.) ICAR, New Delhi innugrated the KVK Stall



Sri. R.K. Tyagi visited at Soil Testing Lab



Sri. R.K. Tyagi visited at ATIC



Sri. R.K. Tyagi visited at Mushroom Lab



Sri. R.K. Tyagi visited at Mushroom Lab



Sri. R.K. Tyagi visited at Poultry Unit

## Visitiors visit at Krishi Vigyan Kendra Saharanpur



श्री हेम सिंह पुण्डीर, विधान परिषद सदस्य द्वारा केन्द्र पर फेरोमोन ट्रेप का वितरण



द्वारा केन्द्र का भ्रमण



डा० धर्म सिंह सैनी, आयुष मंत्री (स्वतन्त्र प्रभार) उ०प्र० सरकार एवं डा० एस.के. सचान निदेशक प्रसार द्वाराँ विश्व मुदा स्वास्थ्य दिवस पर आयोजित केन्द्र मेला अमण



डा॰ रणधीर सिंह, ए.डी.जी., आई.सी.ए.आर. द्वारा केन्द्र के कार्यों का अवलोकन



प्रो. गया प्रसाद, कुलपति सरदार वल्लभभाई पटेल, कृषि एवं प्रो०वि०वि०, मेरठ द्वारा केन्द्र के सामुदायिक रेडियो केन्द्र पर किसानों को सम्बोधन



प्रो. गया प्रसाद, कुलपति एवं डा० एस.के. सचान, निदेशक प्रसार, स.व.प., कृषि एवं प्रौ०वि०वि०, मेरठ द्वारा केन्द्र की पशु चॉकलेट इकाई का शुभारम्भ