KVK RAMPUR
ANNUAL REPORT (April-2017-March-2018)

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	75	1188	335	1523
Rural youths	04	40	0	40
Extension functionaries	15	160	17	177
Sponsored Training	01	50	0	50
Vocational Training	0	0	0	0
Total	**95**	**1438**	**352**	**1790**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	32	14	
Pulses	178	90	
Cereals	70	28	
Vegetables	45	9.5	
Other crops	15	4.2	
Hybrid crops			
Total	**340**	**145.7**	
Livestock & Fisheries	40	10	60
Other enterprises	10	0.1	
Total	**50**	**10.1**	**60**
Grand Total	**390**	**155.8**	**60**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	05	27	27
Livestock			
Various enterprises			
Total	**05**	**27**	**27**
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	**05**	**27**	**27**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	289	6906
Other extension activities	82	Mass.
Total	**371**	**6906**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Rampur	Text only							
	Voice only	173	67			43	29	312
	Voice & Text both							
	Total Messages	**173**	**67**			**43**	**29**	**312**
	Total farmers Benefitted							**312**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	369.30	591921.00
Planting material (No.)	16500	
Bio-Products (kg)		
Livestock Production (No.)		
Fishery production (No.)		

7. Soil, water & plant Analysis

Samples		No. of Beneficiaries	Value Rs.
Soil	228	819	
Water			
Plant			
Total	**228**	**819**	

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	02
2	Conferences	05
3	Meetings	08
4	Trainings for KVK officials	09
5	Visits of KVK officials	07
6	Book published	0
7	Training Manual	0
8	Book chapters	01
9	Research papers	08
10	Lead papers	01
11	Seminar papers	02
12	Extension folder	01
13	Proceedings	01
14	Award & recognition	0
15	On going research projects	02

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	Telephone		E mail
Krishi Vigyan Kendra, Dhamora-Rampur (U.P.)	Office	FAX	rampurkvk@gmail.com
	05960-296520	05960-296520	

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

Address	Telephone		E mail
	Office	FAX	
Sardar Vallabhbhai Patel University of Ag. & tech., Meerut (U.P.)	0121-2411511	0121-2411540	Deesuvpuat2014@gmail.com

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

Name	Telephone/Contact		
	Residence	Mobile	E-mail
Dr. Laxmi Kant	-	09411215276	laxmikantkvk@gmail.com

1.4. Year of sanction : 1992

1.5. Staff Position (as on 31th March, 2018)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Perman-ent /Temp-orary	Category (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Programme Coordinator	Dr. Laxmi Kant	Professor and Head	Plant Pathology	37400-67000	62420	26.04.2004	Permanent	SC	9411215276	49	laxmikantkvk@gmail.com
2	Subject Matter Specialist	Sri Amit Chaudhary	Trg. Assoc/SMS./ Asstt.Prof.	Horticulture	15600-39100	32750	03.12.2003	Permanent	OBC	9897060189	52	amitchaudhry1368@gmail.com
3	Subject Matter Specialist	Dr. Ravindra Kumar	Trg. Assoc/SMS./ Asstt.Prof.	Soil Sc.	15600-39100	37630	10.12.2003	Permanent	SC	9412355382	45	drrksoil@gmail.com
4	Subject Matter Specialist	Dr. Amarjeet Singh Rathi	SMS /Asstt.Prof.	Agronomy	15600-39100	32020	23.06.2008	Permanent	OBC	9411341621	40	asrathi78@yahoo.com
5	Subject Matter Specialist	Dr. Manoj Singh	SMS /Asstt.Prof.	Animal Sc.	15600-39100	32020	23.06.2008	Permanent	Gen	9897494833	38	singhmanoj_21@rediffmail.com
6	Subject Matter Specialist	Dr. Suneeta Pant	SMS /Asstt.Prof.	Home Sc.	15600-39100	28220	23.06.2008	Permanent	Gen	9412048417	49	suneetapt@gmail.com
7	Subject Matter Specialist	Dr. Virendra Singh	SMS /Asstt.Prof.	Plant Protection	15600-39100	30760	26.12.2008	Permanent	OBC	9456841516	40	virendrdr@gmail.com
8	Programme Assistant	Sh. R.N.Singh	Trg. Asstt.	Fisheries	Column (6)	68000	18.02.1995	Permanent	OBC	9411037240	49	-
9	Computer Programmer	Bhagwan Singh Negi	Prog. Asstt./ Computer Programmer	Computer	Column (6)	47600	18.08.2007	Permanent	Gen	9453381682	44	bsnegi.05@gmail.com
10	Farm Manager	Dr. Ramashray Yadav	Prog. Asstt./ Farm Manager	Plant Breeding	Column (6)	46200	22.07.2008	Permanent	OBC	9412365795	46	ramashrayyadav95@gmail.com
11	Accountant / Superintendent	Sh. Seva Ram	Office Supdt Cum Acctt.	-	Column (8)	62200	18.09.2000	Permanent	OBC	9457046522	44	sevaramsvp@gmail.com
12	Stenographer	Mohd. Irtaza Khan	Jr. Clerk	-	Column (5)	37000	05.05.2000	Permanent	Gen	9412668048	42	bittuirtazakhan@gmail.com
13	Driver	Sh Mukesh Kr.	Driver		Column (4)	31400	31.12.2003	Permanent	SC	9458739410	43	-
14	Driver	-	-	-	-	-	-	-	-	-		-
15	Supporting staff	Sh. Rajveer Singh	Security guard	-	Column (4)	31400	25.04.1997	Permanent	OBC	7409808114	55	-
16	Supporting staff	Sh Vinod Kr.	Attendant	-	Column (1)	22100	22.11.2010	Permanent	SC	9760671748	41	-

1.6. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	1.012
2.	Under Demonstration Units	0.300
3.	Under Crops	8.540
4.	Orchard/Agro-forestry	2.140
5.	Others (Irrigation channels, Chuck Road, bunds etc.)	0.821
	Total	**12.813**

1.7. Infrastructural Development:

A) Buildings

SN	Name of building	Source of funding	Stage		
			Complete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)
1.	Administrative Building	ICAR	1997	550.00	-
2.	Farmers Hostel	ICAR	2008	298.12	1643000.00
3.	Staff Quarters (6)	ICAR	-	440.00	2669800.00
4.	Demonstration Units (2)	ICAR	-	160.00	1105837.00
5	Compound wall/ Fencing	ICAR	-	1000 R/M	1922000.00
6	Rain Water harvesting system	-	-	-	-
7	Threshing floor	ICAR	-	300.00	225000.00
8	Farm godown	ICAR	-	60.00	362671.00
9	Irrigation Channel	ICAR	-	1200 R/M	991440.00
10	Soil testing lab	ICAR	-	65.50	300000.00

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor Sonalika	March 2017	520863.00	260 hrs.	Working
Bolero Jeep	2 July 2009	507000.00	129153	Working
Tractor (HMT)	Transferred from Pantnagar on 08.06.1995	-	5404 hr.	Old type Not Working,
Motorcycle (Rajdoot)	Transferred from Pantnagar on 01.07.1996	-	25866	Not working
Bicycle	20.11.2003	1500.00	-	Working

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
O.H. Projector	Transferred from Pantnagar on 05.09.1995	-	Not Working
Slide Projector	Transferred from Pantnagar on 05.09.1995	-	Not Working
Panasonic LCD multimedia projector with SD memory card reader	30.03.2007	68125.00	Working Condition
Camera hot shot	Transferred from Pantnagar on 05.09.1995	-	Not working

Sony Digital camera	31.03.2004	15300.00	Not working
Sony Digital camera	25-03-2014	10450.00	In working order

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

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	01.02.2018	1. Dr. S.K Sachan , D.E. SVPUA&T, Meerut, Chairman 2. Dr. Laxmikant, Head / Secretary 3. Dr. Hariom Katiyar, Asstt. Prof. Hort., SVPUA&T, Meerut 4. Shiv Singh, DASP Rampur 5. Dr. B.P.Singh, IVRI, Bareilly 6. Ranveer Singh, Agriculture, Rampur 7. Ashok Kumar Verma, LDM, BOB Rampur 8. Tejpal Singh, Director BOB, RSETHI, Rampur 9. Vinay Verma, Programme Officer, AIR Rampur 10. Niranjan Singh, Secretary, Cane Deptt. Rampur 11. Varun Chadurvedi, DTO Rampur 12. Vishwanath, DAO, Rampur 13. Ram Naresh Verma DHO, Rampur 14. Brijmohan Tyagi, DDO Rampur 15. Dr. Manmohan Pandey, VO, Dhamora 16. Sanjeev Kumar, Cane Deptt. Rampur 17. Kailash Chandra, SMS Ag. Deptt. 18. Harprasad, Agriculture Officer, BOB Dhamora 19. Virendra Singh, BSNL Dhamora 20. Sri Yograj Singh Member 21. Manpreet Singh Member 22. Abhay Singh, SMS Agri. Milak 23. Malkhan Singh Member	Details enclosed	

Note : This yellow mark may be treated as an example
**** Attach a copy of SAC proceedings along with list of participants***

2. DETAILS OF DISTRICT (2017-18)

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

S. No	Farming system/enterprise
1.	Agriculture- Horticulture
2.	Agriculture- Dairying
3.	Agriculture- Goat rearing
4.	Agriculture- Poultry
5.	Poultry
6.	Fishery
7.	Bee keeping
8.	Horticulture
9.	Agro forestry

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

SN	Agro-climatic Zone	Characteristics	Agro ecological situation	Characteristics
1	Mid western plain zone	The soils are coarse to medium in texture, neutral to slightly alkaline in nature. Moderately well drained, consistently deep and neutral to slightly alkaline in nature. Climate are the zone in general to subtropical mansoon type. The rain fall in distt,. rampur varies from 600 mm to 965 mm. About 77% area of the distt,. is irrigated and rest 23% area is un irrigated. The crop of the zone are rice, urd , wheat s, toria , sugarcane, lentil and mentha. Tha max temp of the distt. varies form 42 to 44^{o}C and min 1 to 6^{o}C.	AES-I	The soils are low to medium in available phosphorus, medium to high in organic carbon. Bilaspur and Suar tehsils area falls under this AES. The major crops grown are paddy, wheat, sugarcane, toria, mentha, sunflower etc.
2			AES-II	The soils are low to medium in available phosphorus and organic carbon. Shahabad, Sadar, Tanda and Milak tehsil area falls under this AES. The major crops grown are paddy, wheat, sugarcane, toria, lentil , mentha etc.

2.3 Soil types

S. No	Soil type	Characteristics	Area in ha.
1	Silt clay loam	-	25
2	Loam and Sandy loam	-	55
3	Loamy Sand	-	15
4	Sandy Soil	-	4

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

S. No	Crop	Area (ha)	Production (m.t.)	Productivity (Qt /ha)
1	Rice	116154	260766	22.40
2	Wheat	148645	486069	32.00
3	Barley	29	66	22.00
4	Jawar	602	574	0.95
5	Bajra	3394	2746	0.81
6	Maize	485	724	10.40
	Total Cereals	269309	750945	88.56
7	Urd	4964	5848	11.70
8	Moong	14	02	0.14
9	Lentil	-	-	-
10	Gram	-	-	-
11	Pea	1242	1594	12.80
12	Arahar	52	72	13.84
Total Pulses		6272	7516	38.48
Total Food Grains		275581	758461	127.04
13	Mustard	4125	4426	10.70
14	Til	11	01	0.09
15	Soyabean	68	72	10.50
Total Oilseeds		4204	4499	21.29

Source of information: Kharif/Rabi karyashala, Krishi Vibhag Uttar Pradesh

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0}C		Relative Humidity (%)
Apr., 17	0.0	**Maximum**	**Minimum**	
May., 17	0.0			
Jun., 17	108.3			
July., 17	435.2			
Aug., 17	163.8			
Sept., 17	147.0			
Oct., 17	0.0			
Nov., 17	0.0			
Dec., 17	0.0			
Jan., 18	12.7			
Feb., 18	10.0			
Mar., 18	0.0			

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

Category	Population	Production	Productivity
Cattle			
Crossbred	29585	-	-
Indigenous	101510	-	-
Buffalo	348998	-	-
Category	Area (ha)	Production	Productivity
Fish	360.636	-	26 q/ha

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	Chamroua	Daniapur Shankarpur	Paddy	Low yield	Integrated Nutrient Management Integrated Pest Management Weed management Water management
				Wheat	Low yield	Integrated Nutrient Management Integrated Pest Management Weed management
				Urd	Low yield	Integrated Nutrient Management Integrated Pest Management Replacement of variety
				Toria	Low yield	Integrated Nutrient Management Integrated Pest Management Replacement of variety
				Mentha	Low yield	Integrated Pest Management Replacement of variety
				Mango	Low yield	Poor management

				Poplar	Low growth	Integrated Pest Management Scientific planting technique
				Cattle	Low yield	• Green fodder production • Supplementation of mineral mixture and salt in feed Management and balanced feeding of farm animals Control of Animal Disease and abdominal worms
				Buffalo	Low yield	• Green fodder production • Supplementation of mineral mixture and salt in feed Management and balanced feeding of farm animals Control of Animal Disease and abdominal worms
2.	Milak	Milak	Ashokpur	Paddy	Low yield	Integrated Nutrient Management Integrated Pest Management Weed management Water management Seed production
				Wheat	Low yield	Integrated Nutrient Management Integrated Pest Management Weed management Seed production
				Urd	Low yield	Integrated Nutrient Management Integrated Pest Management Replacement of variety
				Toria	Low yield	Integrated Nutrient Management Integrated Pest Management Replacement of variety
				Mentha	Low yield	Integrated Pest Management Replacement of variety
				Mango	Low yield	Poor management
				Poplar	Low growth	Non adoption of scientific planting methods and plant protection measures
				Cattle	Low yield	• Green fodder production • Supplementation of mineral mixture and salt in feed Management and balanced feeding of farm animals • Control of Animal Disease and abdominal worms
				Buffalo	Low yield	• Green fodder production • Supplementation of mineral mixture and salt in feed Management and balanced feeding of farm animals Control of Animal Disease and abdominal worms
3.	Milak	Milak	Loha Patti Bhagirath	Paddy	Low yield	Integrated Nutrient Management Integrated Pest Management Weed management Water management

				Wheat	Low yield	Integrated Nutrient Management Integrated Pest Management Weed management
				Urd	Low yield	Integrated Nutrient Management Integrated Pest Management Replacement of variety
				Toria	Low yield	Integrated Nutrient Management Integrated Pest Management Replacement of variety
				Mentha	Low yield	Integrated Pest Management Replacement of variety
				Mango	Low yield	Poor management
				Poplar	Low growth	Non adoption of scientific planting methods and plant protection measures
				Cattle	Low yield	Green fodder production Supplementation of mineral mixture and salt in feed Management and balanced feeding of farm animals Control of Animal Disease and abdominal worms
				Buffalo	Low yield	Green fodder production Supplementation of mineral mixture and salt in feed Management and balanced feeding of farm animals Control of Animal Disease and abdominal worms

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Rice	Integrated Nutrient Management
Rice	Integrated Pest Management
Rice	Weed management
Rice	Water management
Rice	Seed production
wheat	Integrated Nutrient Management
Wheat	Integrated Pest Management
Wheat	Weed management
Wheat	Seed production
Urd(Black Gram)	Integrated pest management
Urd(Black Gram	Replacement of variety
Lentil	Integrated pest management
Lentil	Replacement of variety
Mustard	Integrated Nutrient Management
Mustard	Integrated Pest Management
Mustard	Replacement of variety

Toria	Integrated Nutrient Management
Toria	Integrated Pest Management
Toria	Replacement of variety
Mentha	Integrated Pest Management
Mentha	Integrated Nutrient Management
Mentha	Replacement of variety
Sugarcane	Integrated Pest Management
Sugarcane	Integrated Nutrient Management
Small scale entrepreneur	Mushroom production
Small scale entrepreneur	Bee keeping
Live stock	Management and balanced feeding of farm animals
Live stock	Green fodder production
Live stock	Supplementation of mineral mixture and salt in feed
Live stock	Control of Animal Disease and abdominal worms
Live stock	Backyard poultry farming
Fisheries	Availability of quality fish seed for stocking
Fisheries	Nutritionally Balanced feed in fish culture.
Home Science	Balanced diet and nutrition management in human being
Home Science	Popularizing handicraft
Home Science	Drudgery reduction
Home Science	Value addition to food products

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**
IFS System(Kharif-Rabi-Zaid) - Livestock etc.							
Rice-yellow sarson+sugarcane-ratoon-wheat, buffalo-01	750	8	1200	130000.00	117000.00	1.9	

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.							
Rice-yellow sarson(PPS-01) + sugarcane(Trench Method) - ratoon-wheat, buffalo-01, Cow-01	910	15	1700	180000	229000	2.27	

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
06	05	30	27	155.8	155.8	200	390

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	75	76	1500	1573	400	683	4000	7218
Rural youth	12	04	120	40				
Extn. Functionaries	24	15	480	177				
Other	0	15	0	375				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	369.30	U.P.Beej Vikas Nigam & FCI	20000	16500	

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	Mentha	Varietal Evaluation	10	10
	Field Pea	Varietal Evaluation	07	07
Integrated Pest Management	Paddy	Control of stem borer	05	05
	Sugar cane	Integrated management of white grub	05	05
Others (Pl. specify)				
Total			**27**	**27**

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
Others (Pl. specify)				
Total				

Summary of technologies assessed under various enterprises by KVKs

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

I.B. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops by KVKs

Thematic areas	Crop	Name of the technology refined	No. of trials	No. of farmers
Integrated Nutrient Management				
Total				

Summary of technologies refined under various livestock by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology refined	No. of trials	No. of farmers
Others (Pl. specify)				
Total				

Summary of technologies refined under various enterprises by KVKs

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

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

VARIETAL EVALUTION

1- Problem definition: *Low yield of Mentha*

Technology Assessed or Refined*: Evaluation of mentha variety*

Mentha is an important commercial crop of Rampur in U.P.- however there is high incidence of disease and mixture type variety resulting in yield loss. On this context conducted on-farm trial to assess the Performance of mentha the result indicated that c.v. sim kranti gave 18 percent increase menthe oil yield over Koshi .

Table: ***Performance of Mentha varieties***

Technology Option	*No. of trials*	*Mentha oil Yield Kg/ha*	*Increase in yield (%)*	*Net Returns (Rs./ha)*
1- Koshi	*05*	*110*	-	*99000*
2- SimKranti		*130*	*18*	*117000*

2- Problem definition: *Low yield of Mentha*

Technology Assessed or Refined*: Evaluation of mentha variety*

Mentha is an important commercial crop of Rampur in U.P.- however there is high incidence of disease and mixture type variety resulting in yield loss. On this context conducted on-farm trial to assess the Performance of mentha the result indicated that c.v. sim kranti gave 18 percent increase menthe oil yield over Koshi .

Table: Performance of Mentha varieties

Technology Option	***No. of trials***	***Mentha oil Yield Kg/ha***	***Increase in yield (%)***	***Net Returns (Rs./ha)***
1- Koshi *2- SimKranti*	*05*	*Result Awaited*		

PEST AND DISEASE MANAGEMENT

3- Problem definition: *Low yield of paddy due to infestation of stem borer*
Technology Assessed or Refined *: To increase the production potential of paddy through management of stem borer.*

Paddy is an important kharif crop of U.P. However, there is high infestation of stem borer in paddy resulting in yield loss. Therefore, On Farm Trails at farmers field on five locations were conducted to control the stem borer. The technology of Use of Cartap hydrochloride 4G@ 20kg/ha and Ferterra 0.4GR@10kg/ha reduced the percentage of pest incidence from 18.8 to 5.6 as well as 4.2 percent and yield was increased by 18.16 as well as 21.14 per cent respectively.

Table: Effect of Cartap hydrochloride and Ferterra in control of Stem borer in Paddy (Variety- Sarbati)

Technology Option	***No.of trials***	***Pest Incidence (%)***	***Yield (Qt/ha)***	***% Increase in yield over farmer's practice***	***C:B Ratio***
T1 = Farmers Practice (Use of Phorate 10G @ 25 Kg/ Ha)	*05*	*18.8*	*43.5*	*-*	*1:1.30*
T2 = Use of Cartap hydrochloride 4G@ 20kg/ha		*5.6*	*51.4*	*18.16*	*1:1.63*
T3 = Use of Ferterra (Chlorantraniliplore) 0.4GR@10kg/ha		*4.2*	*52.7*	*21.4*	*1:1.66*

4- Problem definition: *Low yield of Sugarcane due to infestation of white grub*

Technology Assessed or Refined *: To increase the production potential of sugarcane through integrated management of white grub. Sugar cane is an important cash crop of U.P. However, there is high infestation of white grub in sugar cane resulting in yield loss. Therefore, On Farm Trails at farmers field on five locations were conducted to integrated control measure. The refined technology of Use of chloropyrephos 20 EC @ 5.0 Lit./ ha with irrigation water and Soil application of Beauveria bassiana @ 2.5 kg/ ha. mixed with FYM @ 250 kg/ ha reduced the percentage of pest incidence*

Table: Effect of chloropyrephos and Beauveria bassiana in control of white grub in sugarcane(Cos-8436)

Technology Option	*No.of trials*	*Incidence of white grub (%)*	*Yield (Qt/ha)*	*% Increase in yield over farmer's practice*	*C:B Ratio*
T1 = Farmers Practice (Use of Carbofuran3G @ 25 Kg/ Ha)	*05*	*17.6*	*612.5*	-	*1:2.55*
T2 = Use of chloropyrephos 20 EC @ 5.0 Lit./ ha with irrigation water		*6.2*	*715.2*	*16.7*	*1:3.04*
T3 = Use of chloropyrephos 20 EC @ 5.0 Lit./ ha with irrigation water and Soil application of Beauveria bassiana @ 2.5 kg/ ha. mixed with FYM @ 250 kg/ ha.		*4.5*	*738.4*	*20.6*	*1:3.13*

VARIETAL EVALUTION IN GARDEN PEA

5- Problem definition: *Low yield of vegetable pea due to use of local variety*
Technology Assessed or Refined *: To increase the production through HYV of vegetable pea.*

Pea is an important rabi vegetable crop of U.P. However, due to use local variety resulting in yield loss. Therefore, On Farm Trails at farmers field on five locations were conducted to HYV. The technology of Use of HYV

Table: Varietal evalution in garden pea (Variety- Pant Sabzi Matter, Kashi Udai)

Technology Option	*No.of trials*	*Yield (Qt/ha)*	*% Increase in yield over farmer's practice*	*C:B Ratio*
T1 = Farmers Practice (Use of Arkil)	*07*	*61.8*	-	*1:1.5*
T2 = Use of HYV Pant sabzi matter-3		*72.0*	*16.5*	*1:3.1*
T3 = Use of HYV Kashi Udai		*82.8*	*33.9*	*1:3.2*

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2016-17 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	Wheat	IWM	Pendimethalin@3.3 lit/ha	Demonstration, Training and Gosthi	10	150	125.0
2	Wheat	IWM	Pendimethalin@3.3 lit/ha	Demonstration, Training and Gosthi	15	175	220.0
3	Paddy	IWM	Bispyriback sodium	Demonstration, Training and Gosthi	15	125	203.2
4	Paddy	IDM	Soil application of Trichoderma & Pseudomonas Powder for the management of seeth blight	Demonstration, Training and Gosthi	15	150	175.6
5	Paddy	IPM	Spray of buperofezin 25%Sc @300 ml/acra for the management of BPH	Demonstration, Training and Gosthi			
6	Mentha	IPM	Imidaclropid @ 180 ml/ha (Foliar spray)	Demonstration, Training and Gosthi	20	200	200.0
7	Tomato	IPM	Use of pheromone traps and spry of indoxacarb for the management of fruit borer	Demonstration, Training and Gosthi	13	198	213.6
8	Mango	IPM	Use of methyl eugenol traps for the management of fruit fly	Demonstration, Training and Gosthi	16	227	236.1
9	Reddish	Varietal Evaluation	Improving yield through HYV	Demonstration, Training and Gosthi	25	160	156.5

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

b. Details of FLDs implemented during **2017-18** (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Lentil	Varietal Evaluation	High Yield Variety	Rabi 2017-18	20.0	20.0	2	40	42	
2	Urd	Varietal Evaluation	High Yield Variety	Kharif 2017	30	30	5	40	45	
3	Moong	IPM	IPM	Kharif 2017	20	20	5	45	50	
4	Moong	Varietal	High Yield Variety	Zaid 2018	20	20	6	35	41	

		Evaluation								
5	Wheat	INM	Foliar spray of water soluble fertilizer (18:18:18)	Rabi 2017-18	8.0	8.0	04	16	20	-
6	Wheat	IDM	Foliar spray of Mancozeb 75% WP	Rabi 2017-18	4.0	4.0	03	07	10	
7	Paddy	INM	Foliar spray of water soluble fertilizer (18:18:18)	Kharif 2017	8.0	8.0	03	17	20	
8	Paddy	IDM	Foliar spray of Propiconazole 25% EC	Kharif 2017	4.0	4.0	02	08	10	
9	Paddy	IPM	Foliar spray of Buperofezin 25%SC	Kharif 2017	4.0	4.0	03	07	10	
10	Tomato	IPM	Foliar spray of indoxacrb 14.5% SC	Rabi 2017-18	2.0	2.0			10	-
11	chilli	Varietal Evaluation	To assessment of H.Y. Variety	Rabi 2017-18	0.5	.05	0	05	05	
12	Brinjal	Varietal Evaluation	To assessment of H.Y. Variety	Rabi 2017-18	0.5	.05	0	05	05	-
13	Vegetable pea	IDM	Management of powdery mildew disease by foliar spray of Fenorimol 12% EC	Rabi 2017-18	2.0	2.0	-	10	10	
14	Cauliflower	Varietal Evaluation	To assessment of H.Y. Variety	Rabi 2017-18	0.5	0.5	0	05	05	
15	Potato	IDM	Foliar spray of Curzate M-8 (Cymoxanil 8%+ Mancozeb 64%)	Rabi 2017-18	4.0	4.0	02	08	10	
16	Mentha	IDM	Management of root rot disease by using Trichoderma and Pseudomonas Powder	Zaid 2018	4.0	4.0	-	10	10	
17	Barseem	Fodder Production	BL-10	Rabi 2017 - 18	0.2	0.2	0	05	05	

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					
Wheat	Rabi	Irrigated	Sandy-loam	213	11	203	Rice	17.11.17	15.04.18		
Wheat	Rabi	Irrigated	Sandy-loam	200	14	225	Rice	25.11.17	25.04.18		
Wheat	Rabi	Irrigated	Sandy-loam	Low	Medium	Medium	Rice	13.11.17	16.04.18		
Wheat	Rabi	Irrigated	Sandy-loam	Low	Medium	Medium	Rice	23.11.17	19.04.18		
Paddy	Kharif 2017	Irrigated	Sandy-loam	210	13	215	Wheat	22.06.17	25.10.17	-	-
Paddy											

	Kharif 2017	Irrigated	Sandy-loam	Low	Medium	Medium	Wheat	03.07.17	25.10.17	-	-
	Kharif	Irrigated	Sandy-loam	Low	Medium	Medium	Mentha	09.07.17	26.10.17	-	-
	Kharif	Irrigated	Sandy-loam	Low	Medium	Medium	Wheat	13.07.17	27.10.17	-	-
	Kharif	Irrigated	Sandy-loam	Low	Medium	Medium	Urd	11.07.17	29.10.17	-	-
	Kharif	Irrigated	Sandy-loam	Low	Medium	Medium	Wheat	05.07.17	29.10.17	-	-
	Kharif	Irrigated	Sandy-loam	Low	Medium	Medium	Mentha	09.07.17	25.10.17	-	-
	Kharif	Irrigated	Sandy-loam	Low	Medium	Medium	Wheat	10.07.17	28.10.17	-	-
Paddy											
	Kharif 2017	Irrigated	Sandy-loam	Low	Medium	Medium	Wheat	27.06.17	29.10.17	-	-
	Kharif	Irrigated	Sandy-loam	Low	Medium	Medium	Wheat	02.07.17	28.10.17	-	-
	Kharif	Irrigated	Sandy-loam	Low	Medium	Medium	Wheat	25.06.17	27.10.17	-	-
	Kharif	Irrigated	Sandy-loam	Low	Medium	Medium	Wheat	28.06.17	26.10.17	-	-
	Kharif	Irrigated	Sandy-loam	Low	Medium	Medium	Mentha	04.07.17	30.10.17	-	-
	Kharif	Irrigated	Sandy-loam	Low	Medium	Medium	Wheat	05.07.17	28.10.17	-	-
	Kharif	Irrigated	Sandy-loam	Low	Medium	Medium	Wheat	01.07.17	31.10.17	-	-
Tomato											
	Rabi	Irrigated	Sandy-loam	Low	Medium	Medium	Cucumber	18.11.17	29.03.18	-	-
	Rabi	Irrigated	Sandy-loam	Low	Medium	Medium	Cauliflower	16.11.17	31.03.18	-	-
	Rabi	Irrigated	Sandy-loam	Low	Medium	Medium	Coriander	12.11.17	02.04.18	-	-
	Rabi	Irrigated	Sandy-loam	Low	Medium	Medium	Reddish	14.11.17	05.04.18	-	-
	Rabi	Irrigated	Sandy-loam	Low	Medium	Medium	Okra	15.11.17	04.04.18	-	-

Technical Feedback on the demonstrated technologies Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Opportunities to take intercropping, control of early stage of weeds.
2	Opportunities control of weeds after 15 days after sowing
3	Spray of Urea phosphate (water soluble fertilizer) increase the growth and reduce the maturity period and ultimately increase yield because in later stage temperature increases , the grain size of the crop shrinks

Farmers' reactions on specific technologies

S. No	Feed Back
1	Opportunities to take intercropping, control of early stage of weeds.
2	Opportunities control of weeds after 15 days after sowing
3	Vigorous growth and more yield.

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	02	09/03/2018, 29/09/2017	125	
2	Farmers Training				
3	Media coverage				
4	Training for extension functionaries	01	10/11/2017	10	

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										
Mustard																		
	Varietal Evaluation	HYV	PYS-1	32	14	16.10	12.35	14.58	11.28	29.25	20100	53946	33846	2.68	20100	41736	21636	2.07

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

Frontline demonstration on pulse crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Blackgram																		
Kharif	Varietal Evaluation	HYV	Pant Urd-31	45	30	14.5	9.5	12	9	33.3	20500	55200	34700	2.69	20500	41400	20900	2.01
Greengram																		
Kharif	Varietal Evaluation	HYV	IPM-02-03	41	20	12.8	7.2	10	8	25	20500	48000	27500	2.34	20500	38400	18000	1.87
Zaid	Varietal Evaluation	HYV	IPM-02-03	50	20	Result awaited												
Lentil																		
	Varietal Evaluation	HYV	PL-8	42	20	14.2	10.2	12.20	8.5	43.5	20500	42700	22200	2.08	20500	29750	9250	1.45

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

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		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																			
HKR-43	INM	Foliar spray of water soluble fertilizer (18:18:18)	20	8.0	57	52	54	47	14.83			27575	83700	56125	3.0	26450	71300	44850	2.69
HKR-47	IDM	Foliar spray of Propiconazole 25% EC	10	4.0	57	50	53.8	45.4	18.5	6	23	31000	83390	52390	1.69	30000	70370	40370	1.34
HKR-47	IPM	Foliar spray of Buperofezin 25%SC	10	4.0	57.6	51.4	54.5	45.1	2.84	5	28	31000	84475	53475	1.72	30000	69905	39905	1.33
Wheat																			
HD -2967	INM	Foliar spray of water soluble fertilizer (18:18:18)	20	8.0	58	54	55	48	14.58			23050	95425	72375	3.1	24550	83280	58730	2.3
PBW-550	IDM	Foliar spray of Mancozeb 75% WP	10	4.0	47.5	42.8	44.92	36.78	22.13	4	19.2	31500	72995	41495	2.31	31000	59767	28767	1.92
Vegetables																			
Tomato																			
Roopali	IPM	Foliar spray of indoxacrb 14.5% SC	10	2.0	411.0	394.7	402.39	329.84	21.9			80000	482868	402868	5.03	76000	395808	319808	4.2
Chilli																			
Pant- C1	Varietal Evaluation	To assessment of H.Y. Variety	05	0.5	76.4	71.4	73.6	65.3	12.7			32600	294400	261800	1:8.0	31500	261200	229700	1:7.29
Brinjal																			
PS-5	Varietal Evaluation	To assessment of H.Y. Variety	05	0.5	375.4	298.9	330.0	281.68	17.15			30400	495000	459600	1:15.1	32500	422520	390020	1:12.0
Vegetable pea																			
Arkil	IDM	Management of powdery mildew	10	2.0	71	64.8	68.14	57.39	18.73			31600	88582	56982	1.80	30500	74607	44107	1.44

		disease by foliar spray of Dinocap (Karathane) 48% EC																
Cauliflower																		
	Varietal Evaluation	To assessment of H.Y. Variety	05	0.5	310.2	285.8	285.8	240.4	23.6			45200	535032	489832	1:10.9	45300	432720	391420	1:8.6
Commercial Crops																		
Potato																		
Kufri Alankar	IDM	Foliar spray of Curzate M-8 (Cymoxanil 8%+ Mancozeb 64%)	10	4.0	280.0	268.0	275.09	237.5	15.78			52500	123790	71290	1.35	50000	106915	56915	1.13
Medicinal & aromatic plants																		
Mentholment																		
Sim Saryu-1	IDM	Management of root rot disease by using Trichoderma powder	10	4.0	134.0	125.6	129.7	103.01	25.9			31000	116739	85739	2.76	30500	92709	62209	2.03
Berseem																		
	Fodder production	Seed BL-10	05	0.20	900	840	874	730	19.72			24720	43700	18980	1.77	22920	36500	13580	1.59

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

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)
Buffalo Calf																	
	Disease management	Albendazol 30ml+ Livol 10 g/day for 10 days	30	60	05	70	65% Mortality Decrease										

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

FLD on Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Feed Management																	
	Feed management	Fertilizer- Urea 50 kg/ha	10	10	Yield	Result Awaited											

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

FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)

FLD on Women Empowerment

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 (Kg)		% 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)
	Household food security by Kitchen gardening	Kitchen gardening	10	10 (100 m^2 each)													
Spinach					5.6	4.2	33	-	-	15	50	35	2.33	10	30	20	2.0
Fenugreek					5.6	4.0	40	-	-	15	55	40	2.66	10	30	20	2.0
Raddish					5.0	3.9	35	-	-	18	50	32	1.77	13	30	17	1.3
Turnip					5.0	-	-	-	-	18	50	32	1.77	-	-	-	-
Carrot					5.2	4.2	23.8	-	-	17	52	35	2.05	13	25	12	0.92
Coriander					2.5	2.1	19.0	-	-	17	50	33	1.94	13	25	12	0.92
Bakla					7.2	-	-	-	-	22	72	50	2.27	-	-	-	-

FLD on Demonstration details on crop hybrids *(Details of Hybrid FLDs implemented during* **2017-18***)*

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

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

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	18	0	18	02	0	02	20	0	20
Integrated Crop Management	03	54	0	54	06	0	06	60	0	60
Total	**04**	**72**	**0**	**72**	**08**	**0**	**08**	**80**	**0**	**80**
II Horticulture										
b) Fruits										
Layout and Management of Orchards	01	18	0	18	02	0	02	20	0	20
Cultivation of Fruit	01	17	0	17	03	0	03	20	0	20
Total (b)	**02**	**35**	**0**	**35**	**05**	**0**	**05**	**40**	**0**	**40**
c) Ornamental Plants										
Nursery Management	01	17	0	17	03	0	03	20	0	20
Others (pl specify)										
Total (c)	**01**	**17**	**0**	**17**	**03**	**0**	**03**	**20**	**0**	**20**
GT (a-g)	**03**	**52**	**0**	**52**	**08**	**0**	**08**	**60**	**0**	**60**
IV Livestock Production and Management										
Dairy Management	01	18	0	18	02	0	02	20	0	20
Disease Management	05	80	01	81	07	12	19	87	13	100
Total	**06**	**98**	**01**	**99**	**09**	**12**	**21**	**107**	**13**	**120**
Design and development of low/minimum cost diet	01	0	20	20	0	0	0	0	20	20
Value addition	03	0	60	60	0	0	0	0	60	60
Total	**04**	**0**	**80**	**80**	**0**	**0**	**0**	**0**	**80**	**80**
VII Plant Protection										
Integrated Pest Management	03	54	0	54	06	0	06	60	0	60
Integrated Disease Management	01	17	0	17	03	0	03	20	0	20
Total	**04**	**71**	**0**	**71**	**09**	**0**	**09**	**80**	**0**	**80**
VIII Fisheries										
Integrated fish farming	01	15	02	17	03	0	03	18	02	20
Carp breeding and hatchery management										
Composite fish culture	01	18	0	18	02	0	02	20	0	20
Total	**02**	**33**	**02**	**35**	**05**	**0**	**05**	**38**	**02**	**40**
GRAND TOTAL	**23**	**326**	**83**	**409**	**39**	**12**	**51**	**365**	**95**	**460**

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	19	0	19	01	0	01	20	0	20
Integrated Crop Management	02	36	0	36	04	0	04	40	0	40
Soil & water conservatioin										
Integrated nutrient management	01	18	0	18	02	0	02	20	0	20
Others (pl specify)										
Total	**04**	**73**	**0**	**73**	**07**	**0**	**07**	**80**	**0**	**80**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	01	17	0	17	03	0	03	20	0	20
Total (a)	**01**	**17**	**0**	**17**	**03**	**0**	**03**	**20**	**0**	**20**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	01	18	0	18	02	0	02	20	0	20
Cultivation of Fruit	01	17	0	17	03	0	03	20	0	20
Total (b)	**02**	**35**	**0**	**35**	**05**	**0**	**05**	**40**	**0**	**40**
g) Medicinal and Aromatic Plants										
Production and management technology	01	17	0	17	03	0	03	20	0	20
Others (pl specify)										
Total (g)	**01**	**17**	**0**	**17**	**03**	**0**	**03**	**20**	**0**	**20**
GT (a-g)	**04**	**69**	**0**	**69**	**11**	**0**	**11**	**80**	**0**	**80**

III Soil Health and Fertility Management										
Soil fertility management	02	38	0	38	02	0	02	40	0	40
Management of Problematic soils	03	56	0	56	04	0	04	60	0	60
Micro nutrient deficiency in crops	01	18	0	18	02	0	02	20	0	20
Nutrient Use Efficiency	04	72	01	73	07	0	07	79	01	80
Balance use of fertilizers										
Soil and Water Testing	06	110	0	110	10	0	10	120	0	120
Others (pl specify)										
Total	**16**	**294**	**1**	**295**	**25**	**0**	**25**	**319**	**1**	**320**
IV Livestock Production and Management										
Dairy Management	01	15	04	19	01	0	01	16	04	20
Disease Management	04	65	35	100	03	0	03	68	35	103
Feed & fodder technology	03	58	0	58	02	0	02	60	0	60
Production of quality animal products	02	33	0	33	07	0	07	40	0	40
Others (pl specify)										
Total	**10**	**171**	**39**	**210**	**13**	**0**	**13**	**184**	**39**	**223**
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	20	20	0	0	0	0	20	20
Storage loss minimization techniques	01	0	20	20	0	0	0	0	20	20
Value addition	01	0	20	20	0	0	0	0	20	20
Women empowerment										
Location specific drudgery reduction technologies	01	0	20	20	0	0	0	0	20	20
Rural Crafts	01	0	20	20	0	0	0	0	20	20
Women and child care	01	0	20	20	0	0	0	0	20	20
Others (pl specify) Family health care	03	0	60	60	0	0	0	0	60	60
Total	**10**	**0**	**200**	**200**	**0**	**0**	**0**	**0**	**200**	**200**
VII Plant Protection										
Integrated Pest Management	03	60	0	60	0	0	0	60	0	60
Integrated Disease Management	01	20	0	20	0	0	0	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**	**100**	**0**	**100**	**0**	**0**	**0**	**100**	**0**	**100**
VIII Fisheries										
Integrated fish farming	01	18	0	18	02	0	02	20	0	20
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture	02	37	0	37	03	0	03	40	0	40
Others (pl specify)										
Total	**03**	**55**	**0**	**55**	**05**	**0**	**05**	**60**	**0**	**60**
GRAND TOTAL	**52**	**762**	**240**	**1002**	**61**	**0**	**61**	**823**	**240**	**1063**

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
Integrated Crop Management	05	90	0	90	10	0	10	100	0	10
Soil & water conservatioin										
Integrated nutrient management	01	18	0	18	02	0	02	20	0	20
Others (pl specify)										
Total	**08**	**145**	**0**	**145**	**15**	**0**	**15**	**160**	**0**	**160**
II Horticulture										
Nursery raising	01	17	0	17	03	0	03	20	0	20
Others (pl specify)										
Total (a)	**01**	**17**	**0**	**17**	**03**	**0**	**03**	**20**	**0**	**20**
b) Fruits										
Layout and Management of Orchards	02	35	0	35	05	0	05	40	0	40
Cultivation of Fruit	02	35	0	35	05	0	05	40	0	40
Others (pl specify)										
Total (b)	**04**	**70**	**0**	**70**	**10**	**0**	**10**	**80**	**0**	**80**

c) Ornamental Plants										
Nursery Management	01	17	0	17	03	0	03	20	0	20
Management of potted plants										
Total (c)	**01**	**17**	**0**	**17**	**03**	**0**	**03**	**20**	**0**	**20**
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology	01	17	0	17	03	0	03	20	0	20
Total (g)	**01**	**17**	**0**	**17**	**03**	**0**	**03**	**20**	**0**	**20**
GT (a-g)	**07**	**121**	**0**	**121**	**19**	**0**	**19**	**140**	**0**	**140**
III Soil Health and Fertility Management										
Soil fertility management	02	38	0	38	02	0	02	40	0	40
Management of Problematic soils	03	56	0	56	04	0	04	60	0	60
Micro nutrient deficiency in crops	01	18	0	18	02	0	02	20	0	20
Nutrient Use Efficiency	04	72	01	73	07	0	07	79	01	80
Balance use of fertilizers										
Soil and Water Testing	06	110	0	110	10	0	10	120	0	120
Others (pl specify)										
Total	**16**	**294**	**1**	**295**	**25**	**0**	**25**	**319**	**1**	**320**
IV Livestock Production and Management										
Dairy Management	02	33	04	37	03	0	03	36	04	40
Disease Management	09	145	36	181	10	12	22	155	48	203
Feed & fodder technology	03	58	0	58	02	0	02	60	0	60
Production of quality animal products	02	33	0	33	07	0	07	40	0	40
Others (pl specify)										
Total	**16**	**269**	**40**	**309**	**22**	**12**	**34**	**291**	**52**	**343**
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	02	0	40	40	0	0	0	0	40	40
Storage loss minimization techniques	01	0	20	20	0	0	0	0	20	20
Value addition	04	0	80	80	0	0	0	0	80	80
Women empowerment										
Location specific drudgery reduction technologies	01	0	20	20	0	0	0	0	20	20
Rural Crafts	01	0	20	20	0	0	0	0	20	20
Women and child care	01	0	20	20	0	0	0	0	20	20
Others (pl specify)	03	0	60	60	0	0	0	0	60	60
Total	**14**	**0**	**280**	**280**	**0**	**0**	**0**	**0**	**280**	**280**
VII Plant Protection										
Integrated Pest Management	06	114	0	114	06	0	06	120	0	120
Integrated Disease Management	02	37	0	37	03	0	03	40	0	40
Bio-control of pests and diseases	01	20	0	20	0	0	0	20	0	20
Total	**09**	**171**	**0**	**171**	**09**	**0**	**09**	**180**	**0**	**180**
VIII Fisheries										
Integrated fish farming	02	33	02	35	05	0	05	38	02	40
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture	03	55	0	55	05	0	05	60	0	60
Total	**05**	**88**	**02**	**90**	**10**	**0**	**10**	**98**	**02**	**100**
GRAND TOTAL	**75**	**1088**	**323**	**1411**	**100**	**12**	**112**	**1188**	**335**	**1523**

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	01	08	0	08	02	0	02	10	0	10
Production of organic inputs	01	09	0	09	01	0	01	10	0	10
Mushroom Production	01	10	0	10	0	0	0	10	0	10
Post Harvest Technology	01	09	0	09	01	0	01	10	0	10
TOTAL	**04**	**36**	**0**	**36**	**04**	**0**	**04**	**40**	**0**	**40**

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
Any other (pl.specify)										
TOTAL										

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	01	08	0	08	02	0	02	10	0	10
Production of organic inputs	01	09	0	09	01	0	01	10	0	10
Mushroom Production	01	10	0	10	0	0	0	10	0	10
Post Harvest Technology	01	09	0	09	01	0	01	10	0	10
TOTAL	**04**	**36**	**0**	**36**	**04**	**0**	**04**	**40**	**0**	**40**

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	**02**	**20**	**0**	**20**	**0**	**0**	**0**	**20**	**0**	**20**
Integrated Pest Management	**03**	**27**	**0**	**27**	**03**	**0**	**03**	**30**	**0**	**30**
Protected cultivation technology	**01**	**07**	**0**	**07**	**03**	**0**	**03**	**10**	**0**	**10**
Production and use of organic inputs	**01**	**08**	**0**	**08**	**02**	**0**	**02**	**10**	**0**	**10**
Livestock feed and fodder production	**01**	**20**	**0**	**20**	**0**	**0**	**0**	**20**	**0**	**20**
Household food security										
Any other (Medicinal and ornamental cultivation Tech.)	**02**	**15**	**0**	**15**	**05**	**0**	**05**	**20**	**0**	**20**
TOTAL	**10**	**97**	**0**	**97**	**13**	**0**	**13**	**110**	**0**	**110**

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
Integrated Nutrient management	**01**	**10**	**0**	**10**	**0**	**0**	**0**	**10**	**0**	**10**
Low cost and nutrient efficient diet designing	**01**	**0**	**10**	**10**	**0**	**0**	**0**	**0**	**10**	**10**
Management in farm animals	**02**	**40**	**0**	**40**	**0**	**0**	**0**	**40**	**0**	**40**
Livestock feed and fodder production										
Household food security	**01**	**0**	**07**	**07**	**0**	**0**	**0**	**0**	**07**	**07**
Any other (pl.specify)										
TOTAL	**05**	**50**	**17**	**67**	**0**	**0**	**0**	**50**	**17**	**67**

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	**02**	**20**	**0**	**20**	**0**	**0**	**0**	**20**	**0**	**20**
Integrated Pest Management	**03**	**27**	**0**	**27**	**03**	**0**	**03**	**30**	**0**	**30**
Integrated Nutrient management	**01**	**10**	**0**	**10**	**0**	**0**	**0**	**10**	**0**	**10**
Rejuvenation of old orchards										
Protected cultivation technology	**01**	**07**	**0**	**07**	**03**	**0**	**03**	**10**	**0**	**10**
Production and use of organic inputs	**01**	**08**	**0**	**08**	**02**	**0**	**02**	**10**	**0**	**10**
Low cost and nutrient efficient diet designing	**01**	**0**	**10**	**10**	**0**	**0**	**0**	**0**	**10**	**10**
Management in farm animals	**02**	**40**	**0**	**40**	**0**	**0**	**0**	**40**	**0**	**40**
Livestock feed and fodder production	**01**	**20**	**0**	**20**	**0**	**0**	**0**	**20**	**0**	**20**
Household food security	**01**	**0**	**07**	**07**	**0**	**0**	**0**	**0**	**07**	**07**
Any other (Medicinal and ornamental cultivation Tech.)	**02**	**15**	**0**	**15**	**05**	**0**	**05**	**20**	**0**	**20**
TOTAL	**15**	**147**	**17**	**164**	**13**	**0**	**13**	**160**	**17**	**177**

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
Agricultural Extension										
Capacity Building and Group Dynamics										
Others (Farmers Technical Training)	**01**	**50**	**0**	**50**	**0**	**0**	**0**	**50**	**0**	**50**
Total	**01**	**50**	**0**	**50**	**0**	**0**	**0**	**50**	**0**	**50**
GRAND TOTAL	**01**	**50**	**0**	**50**	**0**	**0**	**0**	**50**	**0**	**50**

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										
Grand Total										

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	145	1258	20	1278
Diagnostic visits	05	60	0	60
Field Day	02	125	03	128
Group discussions	04	180	0	180
Kisan Ghosthi	08	1113	0	1113
Film Show	0	0	0	0
Self -help groups	0	0	0	0
Kisan Mela	02	750	60	810
Exhibition	01	350	20	370
Scientists' visit to farmers field	112	2045	0	2045
Plant/animal health camps	0	0	0	0
Farm Science Club	0	0	0	0
Ex-trainees Sammelan	0	0	0	0
Farmers' seminar/workshop	0	0	0	0
Method Demonstrations	0	0	0	0
Celebration of important days	05	610	0	610
Special day celebration	01	130	0	130
Exposure visits	03	160	0	160
Others (pl. specify)	01	22	0	22
Total	**289**	**6803**	**103**	**6906**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	02
News paper coverage	71
Popular articles	03
Radio Talks	06
TV Talks	0
Animal health amps (Number of animals treated)	0
Others (pl. specify)	0
Total	**82**

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
	Text only							
	Voice only	173	67			43	29	312
	Voice & Text both							
	Total Messages	173	67			43	29	312
	Total farmers Benefitted							**312**

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			

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

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals						
	Wheat	WH-1105		212.30	344987.00	UP Beej Vikas Nigam
	Paddy	HKR-127		157.00	246934.00	FCI
Vegetables	Garlic	Yamuna Sfaid(G-50)		Seedlings- 4000		
	Onion	N-53		Seedlings-12000		
Fodder crop seeds						
	Napier	Co_3& Co_4		500 Sapling		05
Total				**369.30/16500**	**591921.0**	

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						
Total						

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers				
Total				

Table: Production of livestock materials

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

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	**228**	**819**	**23**	
Total	**228**	**819**	**23**	

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
Rampur	01 dated 01 Feb, 2018

IX. NEWSLETTER/MAGAZINE

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

X. PUBLICATIONS

Category	Number
Research Paper	05
Technical bulletins	02
Technical reports	06
Others (pl. specify)	02

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

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

Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants

Animal health camps organised

Number of camps	No.of animals	No.of farmers

Seed distribution in drought hit states

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

Large scale adoption of resource conservation technologies

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

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

XIII. DETAILS ON HRD ACTIVITIES

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

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved

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

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

KVK Rampur(U.P.)

(1) Integrated Farming System in district Rampur (U.P.)

Situation analysis/ Problem statements:- Mr. Amarjeet singh, village Karmch , Tehsil- Milak, District- Rampur, a farmer who was low income and not fully utilize the farming system.

Plan, Implement and Support:- KVK Rampur tries to make them aware regarding Integrated farming system . That starts from land integrated farming system. This KVK has encouraged the farmer adopted after IFS module.

Output:- Mr. Amarjeet singh adopted the the Earlier mono culture (Rice-Wheat) adopted after IFS module like cerels were grown in 1 ha. Land and crops like, mustard, arhar, lentil, mentha, poplar in 2 ha. Area. A small orchard of mango guava, aonla and papya was also establisht in 1 ha. with intercropping of turmeric

Outcome:- Crop diversification with vegetable pea and moong, poplar crop for high return enhance the productivity and profitability through IFS approach and to improve in livelihood and nutritional security.

Impact:- Mr. Sanjay Singh is becoming one of the progressive and learned farmers for others with regards to popularization of IFS module . This technology helps him for livelihood, empowerment and make him enthusiastic regards oilseed production. He is one of the progressive farmer after a becoming a part of KVK activities and get their effectiveness for his own development. Mr. Amarjeet Singh is very happy with this Integrated Farming system (IFS) set example for other farmers of the district.

A farmers with KVK's scientist

(2) Use of vermi compost and vermi wash under natural farming

Situation analysis/ Problem statements:- Sayyad Kunain Village-Dhaman, Dhadiyal, Rampur, Mr. Kunain high school passed and he started vermi composting activities from 2013 and also take keen interest to promotion of Organic farming and income generation.

Plan, Implement and Support:- KVK Rampur tries to make them aware regarding vermin compost . Vermin composting activities started from 2013 at on farm in small level then extended organic farming on vegetable, spices and fruits crops. Mr. Kunain use totally vermi compost and vermi wash on crops and also encourage awareness to organic farming on vegetable crops as well as fruit crop near by villagers.

Outcome:- This technology help to increase th soil fertility and safe envorment and low use of chemical pestiside. This system fatches more returns on per unit area .

Impact:- He is becoming one of the progressive and learned farmers for others with regards to popularization of Vermi compost . He is one of the progressive farmer after a becoming a part of KVK activities and get their effectiveness for his own development. 50 farmers adopted technology by Mr. Kunain.

VERMI WASH

VERMI COMPOST

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