PROFORMA FOR PREPARATION OF ANNUAL REPORT (April-2018-March-2019)

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	83	1467	196	1663
Rural youths	10	166	-	166
Extension functionaries	21	200	35	235
Sponsored Training	03	135	15	150
Vocational Training				
Total	**117**	**1968**	**246**	**2214**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds			
Pulses	108	36.0	
Cereals	50	20	
Vegetables	23	5.2	
Other crops			
Hybrid crops			
Total	**181**	**61.2**	
Livestock & Fisheries	40	-	40
Other enterprises	20	-	20
Total	**60**	**-**	**60**
Grand Total	**241**	**61.2**	**60**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	08	37	37
Livestock	01	10	10
Various enterprises	01	05	05
Total			
Technology Refined	**10**	**52**	**52**
Crops			
Livestock			
Various enterprises			
Total			
Grand Total			

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	1023	24163
Other extension activities	96	Mass
Total	**1119**	**24163**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Bulandshahr	Text only							
	Voice only	965	250	275	82	876	272	2720
	Voice & Text both							
	Total Messages	**965**	**250**	**275**	**82**	**876**	**272**	**2720**
	Total farmers Benefitted	**1360**	**575**	**450**	**205**	**1467**	**520**	**4577**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	489.85	881800.00
Planting material (No.)	24500	5500.00
Bio-Products (kg)		
Livestock Production (No.)		
Fishery production (No.)		

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	875	
Water		
Plant		
Total	**875**	

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	04
2	Conferences	14
3	Meetings	28
4	Trainings for KVK officials	05
5	Visits of KVK officials	14
6	Book published	-
7	Training Manual	04
8	Book chapters	-
9	Research papers	14
10	Lead papers	02
11	Seminar papers	08
12	Extension folder	04
13	Proceedings	06
14	Award & recognition	03
15	On going research projects	01

PROFORMA FOR PREPARATION OF ANNUAL REPORT (April-2018-March-2019)

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 DM Road Char Yar Bulandshahr	Office 05732-223103	FAX _	bulandshahrkvk@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
SVPUA&T, Modipuram, Meerut (U.P.)	0121-2411511		deesvpuat2014@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr Satish Kumar	05732-223103	09412311504	satish.nagina@gmail.com

1.4. Year of sanction: 2008

1.5 Staff Position (as on 30th March, 2018)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)	Mobile No.	Age	E_mail
1	Head/ Sr. Scientist	Dr Satish Kumar	Head/ Sr. Scientist.	Extension	37400-67000	57110	27-12-1996	Permanent	Gen	9412311504	**52**	satish.nagina@gmail.com
2	Subject Matter Specialist	Dr Reshu Singh	SMS/ Assit Prof.	Plant Protection	15600-39100	30760	23-06-2008	Permanent	SC	9412672253	35	reshu_258@rediffmail.com
3	Subject Matter Specialist	Dr Vivek Raj	SMS/ Assit Prof.	Agronomy	15600-39100	32850	26-12-2008	Permanent	Other	9412890886	42	drrajvivek@gmail.com
4	Subject Matter Specialist	Dr Manoj kumar	SMS/ Assit Prof.	AH& Dairying	15600-39100	30220	26-12-2008	Permanent	OBC	9411448461	35	dr.manojtomar@gmail.com
5	Subject Matter Specialist	Smt KM. Tripathi	SMS/ Assit Prof.	Home Science	15600-39100	27390	26-12-2008	Permanent	other	9410675174	34	kirtitripathi.dixit@ gmail.com
6	Computer Programmer	Sh. Zayeem Khan	Prog. Assist	Computer		47600	30-07-2007	Permanent	other	8126504311	37	zksvpu@yahoo.com
7	Farm Manager	Sh. R.K Sirohi	Farm manager	Seed technology		46200	26-12-2008	Permanent	OBC	8273443441	47	sirohirk@gmail.com
8	Accountant / Superintendent	Sh. R.K Garg	Accountant/superintendent	Account		74300	17-01-1994	Permanent	other	9457034310	47	gargsvpuat@gmail.com
9	Stenographer	Sh. P.N. Pal	Steno/ Com Oprt.	-		44100	14-09-2000	Permanent	other	9452574716	44	prakashpal35@gmail.com
10	Driver	Sh. Ashok Kumar	Driver	-		26800	26-12-2008	Permanent	other	9719441597		
11	Supporting staff	Sh. Harish Kumar	Attendent	-		24200	26-12-2008	Permanent	SC	8439198655	38	

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

S. No.	Item	Area (ha)
1	Under Buildings	Nil
2.	Under Demonstration Units	0.02
3.	Under Crops	9.70
4.	Orchard/Agro-forestry	0.01
5.	Others (specify)	0.27

1.7. Infrastructural Development:

A) Buildings NIL

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building							
2.	Farmers Hostel							
3.	Staff Quarters (6)							
4.	Demonstration Units (2)							
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown	Revolving Fund	01					

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bike (Motor cycle)	2010	50000.00	71646	Working
Tractor	2017	525000.00	192.5 Hour	Working

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer	2010		working
DIgital camera	2010	15000.00	Non-working
	.		

1.8. A). Details SAC meeting conducted in the year – Dec. 15-2017.

S. N	Name and Designation	Salient Recommendations	Action taken
1.	Dr. Sachan, D.E.,SVPUA&T, Meerut.	Farmer's should be made aware of phosphous fertilizers, through trainings, FLD & OFT awareness about.	Four OFTs in two years have been conducted in the topic suggested.
		Government schemes related to agriculture should be dispersed.	Scientist are instructed for the same and they are dispensing different government schemes.

		Efficiency of Isoprothelene should be tested on seeds for neck blast in paddy.	It will be taken in action plan 2018-19.
		Productivity of farm is low. Emphasis should be given to improve the productivity.	Farm manager has been instructed for the same and all the inputs one provided timely
		Companies name should not be given in reporting pesticides. Only give the chemical's/salt's name.	Care has been taken and related scientist is being instructed for the same.
2.	Dr. Sachan K & DD Agri.	No programmes have been conducted in Agro forestry except few trainings. It is strictly suggested that mandatory work of KVK should be done by concerned scientist election duty is additional work	Agro Forestry scientist has been instructed that he should complete all the mandatory work timely.
3.	Dr. R.B. Yadav, Prof Agro, SVPUA&T, Meerut	In OFTs, the ratio of NPK should be elaborated.	Ratio of NPK is elaborated in the progress reports.
		In OFTs, treatments should b given in per hectare.	All the treatments are given in per hectare.
		All the varieties should be given in OFT and FLD.	All the varieties are given under OFT and FLD.
4.	Smt.Urmila Chaudhary SAC, Member	Trainings on soil sample collection procedure should be given.	Training is being added on the same.
5.	Dr. Laxmi Narayan , CVO, Bulandshahr	Full name and composition of medicine should be given in OFT/FLD of Animal Husbandry.	Full name and composition of medicine are given in progress report.

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.	Rice – Wheat-Dairy
2.	Maize – Potato-Sorghum (Fodder)-Dairy
3.	Maize- Mustard-Moong-Beekeeping
4.	Rice-Wheat-Sugarcane-Ratoon- Poultry
5.	Bajra –Toria-Late wheat
6.	Horticulture & Agro-forestry
7.	Pigeonpea-wheat-green manure

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

S. No	Agro-climatic Zone	Characteristics
1.	Western plain	The soils are alluvial in nature and partially affected by salts. Average annual rain fall is 797 ml and the temperature ranges from 3 ° c to 44 ° c. The average related humidity ranges from 30 to 95 %. Cropping intensity of the zone is 155 %. Paddy, maize rice, sugarcane , rap seed and mustard are the major field crop of the zone. Potato, vegetable pea, tomato, brinjal, garlic, onion and flowers are also cultivated.

2.3 Soil types

S. No	Soil type	Characteristics	Area in ha

1.	Ganga khaddar	1. Light brown sandy loam to sandy, generally structure less, medium in water holding capacity and organic matter, moderately alkaline, restricted drainage, surface soils poor in lime contents but the middle layer is calcareous, medium in soluble salts, carbonates and sulphates practically absent	
2.	Ganga recent alluvium	Light gray to light brownish gray, sandy loam, average water holding capacity, neutral in reaction, slightly calcareous, low in organic matter content , impeded Drainage and prone to salinity in the water logged areas, average in soluble salts but injurious carbonates are absent**.**	
3.	Ganga upland	Light gray to light brownish gray, sandy loam, average water holding capacity, neutral in reaction, slightly calcareous, low in organic matter content , impeded drainage and prone to salinity in the water logged areas, average in soluble salts but injurious carbonates are absent.	
4.	Ganga Flats	Brown at surface and lighter brown, sandy loam, medium water holding capacity, neutral non-calcareous, fair drainage, low in soluble salts mainly comprising of bicarbonates and chlorides of sodium.	
5.	Central low lands	The colour varies from gray to grayish brown at the surface to slightly light at lower depths. Light texture at surface but becoming heavier below, medium water holding capacity, neutral in reaction but lower layers moderately calcareous. High soluble salts that increase with depth.	
6.	Yamuna Flats	Surface soil gray in colour which darkens below, becoming gray again in the third horizon . Texture is clay loam at surface and heavier below, poor water holding capacity, neutral in reaction and medium water soluble salts comprising mainly bicarbonates and chlorides of sodium.	

2.4. Area, Production and Productivity of major crops cultivated in the district 2017-18

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1	Wheat	197846	7557717	38.20
2	Sugarcane	49561	28527311	575.60
3	Paddy	87195	2082216	23.88
4	Maize	52631	1073672	20.40
5	Pigeon Pea	9555	66025	6.91
6	Rape seed & Mustard	8408	106781	12.70
7	Potato	7668	1557677	203.14

2.5. Weather data:

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	

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

Category	Production	Productivity	
Cattle			
Crossbred	67852	8236 mt.	5.13
Indigenous	104142		
Buffalo	1225246	10562.6 mt	5.76
Sheep			
Crossbred	2446		
Indigenous	5839		
Goats	196731		
Pigs			
Crossbred	9124		
Indigenous	31435		
Rabbits	178		

Poultry			
Hens	182178		
Desi			
Improved			
Ducks			
Turkey and others			

Category	**Area**	**Production**	**Productivity**
Fish			
Marine			
Inland			
Shrimp			
Agro-forestry	700		

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.	Bulandshahr	Bulandshahr	Gijhori, Machkauli, chawli. Devli, Jainpur. Kahira, Sehkari nagar	Rice, wheat pigeon pea sugarcane, potatao, vegetables, Mango, Animals poultry	Diseases (Blast, Sheath blight, BLB) Weed problem, Termite, white grub, Sterility in animal	Low organic matter, More infestation of insect -pest , and diseases
2		Lakhaoti	Lakhaoti Pipala, Rahmapur shyavali, Seekari	Rice, wheat pigeon pea sugarcane, potatao, Carrot, Mango, Animals,Flouriculture	Diseases (Blast, Sheath blight, BLB) Weed problem, Termite, white grub, Sterility in animal	Low organic matter, More infestation of insect - pest , and diseases
3		Gulaoti	Kota, Ginorashekh,Baral, Ulehra,Harchana Mohana, Gyastipur. Nai basti	Rice, wheat pigeon pea sugarcane, potato, Mango, Animals Agro-forestry	Diseases (Blast, Sheath blight, BLB) Weed problem, Termite, white grub, Sterility in animal	Low organic matter, More infestation of insect - pest , and diseases
4		Jahangirabad	Surajpur Tilkri	Rice, wheat pigeon pea sugarcane, potatao, Mango, Animals Bee keeping	Diseases (Blast, Sheath blight, BLB) Weed problem, Termite, white grub, Sterility in animal	Low organic matter, More infestation of insect - pest , and diseases
5		Sikandrabad	Nithari, Shekhpur Gendpur,	Rice, wheat pigeon pea sugarcane, potatao, Mango, Animals Bee keeping, Vegetables	Diseases (Blast, Sheath blight, BLB) Weed problem, Termite, white grub, Sterility in animal	Low organic matter, More infestation of insect - pest , and diseases

2.8 Priority/thrust areas

Crop	**Thrust area**
Rice	Weed Management
Rice	Integrated diseases Management/ varietal
Sugarcane	Integrated pest management/ Varietal
Wheat	Weed management
Agro-forestry- Poplar	Varietal demonstration / evaluation.
Turmeric	Value addition
Maize	Drudgery reduction/ varietal
Mango	Rejuvenation of old orchard/ nutrient management
Animal Husbandry	Animal nutrition management

2.9 Intervention/ Programmes for the doubling the farmers income – during 2018-19 **Demonstrations**

Before Interventions	**Main crop Yield(q/ha)**	**Inter crop Yield(q/ha)**	**Equivalent Yield(q/ha)**	**Cost of cultivation(Rs/ha)***	**Net income(Rs/ha)**	**B.C: Ratio**	**Remark if any**
Intercropping System(Kharif-Rabi-Zaid) -Livestock etc.	Sugarcane (525)	Marigold (150)	675	67500	103175	2.52:1	

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 (575)	Marigold (120)	695	93450	213425	3.28:1	

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**
Mono Cropping System(Kharif-Rabi-Zaid) -Livestock etc.	Sugarcane (525)	Mustard (10)	535	67500	103175	2.52:1	

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 (625)	Moong (06)	631	71340	163785	3.29:1	

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

Before Interventions	**Main crop Yield(q/ha)**	**Inter crop Yield(q/ha)**	**Equivalent yield(q/ha)**	**Cost of cultivation(Rs/ha)***	**Net income(Rs/ha)**	**B.C: Ratio**	**Remark if any**
Relay Cropping System(Kharif-Rabi-Zaid) -Livestock etc.	Maize Paddy Wheat		39 32 37	32000 45000 40000	53995	1.21:1	

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.	Maize + Sorgham Wheat Buffalo		40 400 38 4000Lt	32000 25000 40000 12000	67995	2.31:1	

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

Before Interventions	**Main crop Yield(q/ha)**	**Inter crop Yield(q/ha)**	**Equivalent yield(q/ha)**	**Cost of cultivation(Rs/ha)***	**Net income(Rs/ha)**	**B.C: Ratio**	**Remark if any**
Mixed Farming System(Kharif-Rabi-Zaid)-Livestock etc.	Maize (40) Wheat (38)		78	98000	15930	1.16:1	

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

After Interventions	**Main crop Yield(q/ha)**	**Inter crop Yield(q/ha)**	**Equivalent yield(q/ha)**	**Cost of cultivation(Rs/ha)***	**Net income(Rs/ha)**	**B.C: Ratio**	**Remark if any**
Mixed Farming System(Kharif-Rabi-Zaid) -Livestock etc.	Maize (40) Wheat (38) Mashroom (20Kg)		78 400kg	112000	37930	1.34:1	

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

Before Interventions	**Main crop Yield(q/ha)**	**Inter crop Yield(q/ha)**	**Equivalent yield(q/ha)**	**Cost of cultivation(Rs/ha)***	**Net income(Rs/ha)**	**B.C: Ratio**	**Remark if any**
IFS System(Kharif-Rabi-Zaid) - Livestock etc.							

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

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation(Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
IFS System(Kharif-Rabi-Zaid) - Livestock etc.							

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

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2018-19

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total No. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
12	10	60	52	61.2	61.2	201	201

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	89	83	1780	1663	1000	1023	20000	24163
Rural youth	11	10	181	166				
Extn. Functionaries	22	21	220	235				
Total	**122**	**114**	**2181**	**2064**	**1000**	**1023**	**20000**	**24163**

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	489.85		20000	24500	108

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
Varietal Evaluation	Tomato	Increase the yield of Tomato through F1 hybrids.	05	05
	Wheat	Evaluation of Wheat varieties under late sown conditions.	04	04
	Brinjal	Increase the yield of brinjal through F1 hybrids.	05	05
Integrated Pest Management	Sugarcane	Assessment of technology against white grub in sugarcane.	05	05
	Tomato	Low yield of Tomato due to fruit borer incidence (Namdhari 501, bayer 5024)	05	05
Integrated Crop Management	Wheat	To find out the water soluble phosphatic fertilizer	04	04
Integrated Disease Management	Paddy	Assessment of technologies againstbakane disease of paddy.	05	05
Small Scale Income Generation Enterprises		Assessment of nutritional Badis as income generation activities.	05	05
Weed Management	Paddy	To find out suitable chemical weedicide to control weed population .	04	04
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Seed / Plant production (Aro-forestry)				
Post Harvest Technology / Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)(household security)				
Total			42	42

Summary of technologies assessed under livestock by KVKs

Thematic areas	**Name of the livestock enterprise**	**Name of the technology assessed**	**No. of trials**	**No. of farmers**
Disease Management				
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management	Milch	Assessment of		

	Animals	UMMB animal feed supplementation to control the infertility.	10	10
Production and Management				
Others (Pl. specify)(Infertility Management)				
Total			10	10

Summary of technologies assessed under various Enterprises by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Varietal Evaluation				
Integrated Pest Management				
Integrated Crop Management				
Integrated Disease Management				
Seed / Plant production (Aro- forestry)				
Others (Pl. specify)(household security)				
Others (Pl. specify)(Infertility Management)				
Total				

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				
Varietal Evaluation				
Integrated Pest Management				
Integrated Crop Management				
Integrated Disease Management				
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				

Farm Machineries				
Integrated Farming System				
Seed / Plant production (Agro-forestry)				
Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)				
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
Disease Management				
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management				
Production and Management				
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

Production Technology

Technology Assessed or Refined: To find out suitable late sown wheat variety.

Performance of Wheat varieties.

Technology Option	No. of trials	No of tiller/m	Plant height at flowering stage	Yield (qt/ha)	Increase in Yield (%)	B:C Ratio
T_1 = Farmers Practice (PBW-373)	05		Result Awaited			
T_2 = WR 544						

Variety Character:- Semi dwarf variety
Gross Cost :-23000.0
Market Value :-1625

NUTRIENT MANAGEMENT

Problem definition: Poor phosphatic fertilizer supply condition in late sown wheat.(DBW-16)

Technology Assessed : To find out the water soluble phosphatic fertilizer
Performance of water soluble phosphatic fertilizers

Technology Option	No.of trials	Germination (%)	No of tillers / M^2	Yield (qt/ha)	Increase in Yield (%)	B:C Ratio
T1-Farmers Practice(DAP)	04	95	382	34.7		2.21:1
T2-3 spray NP (17:44) @ 4 kg /Acre		95	401	38.8	10.3	2.44:1

Spray Sechdule:- 1st spray at 30 DAS @ 1kg/acre
2nd spray at 50 DAS @ 1.5kg/acre
3rd spray at 70 DAS @ 1.5kg/acre
Spray prepared in 200 ltr of water.
Gross Cost :- 38150.00
Market Value :- RS. 1700 /qt.

INTEGRATED DISEASE MANAGEMENT

Problem definition: Qualitative and quantitative yield loss of paddy due to bakane disease.

Technology Assessed: Assessment of technologies against bakane disease of paddy.
Table: Effect of Tebuconagole 50 % + Trifloxistrobin 25 % (75 % WG) bakane disease in paddy (PB-1509).

Technology Option	No.of trials	Incidence of bakane disease (%)	Decrease of bakane disease Incidence (%)	Yield (Qt/ha)	% Increase in yield over farmer's practice	BC ratio
T_1 = Farmers practice (foliar spray of Carbendazim 2 g/lit water)	05	14.28	-	47.98	-	1.9:1
T_2 = Tebuconagole 50 % + Trifloxistrobin 25 % (75 % WG) @ 0.5 gm/ltr + foliar spray above chemical @ 0.5gm/ltr @ 12 days old nursery.		5.74	59.80	51.8	7.96	2.6:1

Technological character:
Spray Sechdule:- Seed dip@ 0.5g/lit
Foliar spray @ 0.5 g/lit @ 12 days old nursery.
Gross Cost (Rs./ha):- T1 48000.00
T2 40000.00

Market Value **:-** RS. 2000/qt.

INTEGRATED PEST MANAGEMENT

Problem definition: Low yield of sugarcane due to white grub incidence (CO 0238/ 0239).

Technology Assessed : Assessment of technologies against white grub insect in sugarcane.

Table: Effect of Fipronil 40% + Inidaclorpid 40% WG against white grub in sugarcane crop.

Technology Option	No.of trials	Incidence of false smut white grub(%)	Decrease of white grub Incidence (%)	Yield (Qt/ha)	% Increase in yield over farmer's practice	BC ratio
T_1 = Farmers practice (use of Phorate @ 25 kg/ha)	05	26.08	-	543.96	-	1.3:1
T_2 = Use of Fipronil 40% + Inidaclorpid 40% WG @ 400 g/ha.(Spray on setts at the time of sowing)		11.16	57.20	679.24	24.86	1.9:1

Technological character:
Insecticide: combination of fipronil 40 % + Inidaclorpid 40 % WG @ application is 400 g/ha, it is a broad Spectrum
insecticide.

Gross Cost (Rs./ha) :- T1: 132100.00

T2: 116500.00

Market Value **:-** Rs. 325/qt

Problem definition: Low yield of Tomato due to fruit borer incidence (Namdhari 501, bayer 5024)

Technology Assessed or Refined : Assessment of technologies against fruit borer insect in tomato.

Table: Effect of Emamectin Benzoate 5% SG against fruit borer insect in tomato.

Technology Option	No.of trials	Incidence of fruit borer (%)	Decrease of fruit borer Incidence (%)	Yield (Qt/ha)	% Increase in yield over farmer's practice	BC ratio
T_1 =Foliar spray of cypermethrin @ 1000 ml/ha.	05	Result Awaited				
T_2 = Emamectin Benzoate 5% SG @ 200 gm/ha.						

Weed Management

Problem definition : Low productivity of basmati rice due to weed infestation.

Technology Assessed or Refined: To find out suitable chemical weedicide to control weed

Table Performance of weedicides.

Technology Option	No.of trials	Cost of production/Rs/ ha	Net Return(Rs /ha)	Yield (qt/ha)	Increase in Yield (%)	B:C Ratio
T_1 = Farmers Practice (Anilophos@ 1 /ha)	04	36670	32603	32.53	00	1.91:1
T_2 = Oxydiaragyl. @ 40 g/ha.		36915	43423	38.58	15.68	2.24:1

Variety Character:-

Variety	Weed count(no/ m^2)	Maturiy (Days)
T_1 = Farmers Practice (Anilophos@ 1 /ha)	124	132
T_3 = Oxydiaragyl. @ 40 g/ha.	74	134

GrossMarket Value :- *Rs 2000/qt.*

Varietal Evaluation

Problem definition : Low productivity of brinjal.

Technology Assessed or Refined: To find out suitable F1 hybrids of brinjal .

Table Performance of F1 hybrids of brinjal.

Technology Option	No.of trials	Cost of production/Rs/ha	Market rate (Rs /q)	Yield (qt/ha)	Increase in Yield (%)	B:C Ratio
T_1 = Farmers Practice (Shyamla)	05	61183.40	650.00	205.20	00	2.18:1
T_3 = Pusa hybrid-9		63292.57	650.00	268.75	30.96	2.46:1

Varietal Character :-Pusa hybrid-9
1.Early fruiting 2. Fruit weight 250 gm. 3. Round in shape

Gross Cost :- Rs. 63292.57/ha.

Market Value :- Rs. 650/qt.

Varietal Evaluation

Problem definition : Low productivity of Tomato.

Technology Assessed or Refined: To find out suitable F1 hybrids of Tomato .

Table Performance of F1 hybrids of Tomato

Technology Option	No.of trials	Cost of production/Rs/ha	Market rate (Rs /q)	Yield (qt/ha)	Increase in Yield (%)	B:C Ratio
T_1 = Farmers Practice (Sel 22)	05	91710.00	1000.00	211.22	00	2.30:1
T_2 = Pusa hybrid-8		97525.00	1000.00	260.40	23.28	2.55:1

Varietal Character:- Pusa hybrid-2
1.Red in color 2. Fruit weight 85 gm. 3. Round in shape , Smooth and solid

Gross Cost :- Rs. 97745/ha.

Market Value **:-** Rs. 1000/qt.

Value Addition

Problem definition: Lack of income generation activities.

Technology assessed: Assessment of nutritional Badis as income generation activities.

Table. Performance of nutritional Badis.

Technology Option	No.of trials	Cost Rs/kg	Cost Rs/kg	Other parameters
T1:- Use as perish able cooked items .	05	Demonstration	Market	Shelf life
T2- Nutritional Badis		Continue		

LIVE STOCK ENTERPRISES

Problem definition:- High Incidence of Infertility problem in dairy animals resulting in lower productivity and profitability of dairying.

Technology Assessed or Refined : Assessment of UMMB animal feed supplementation of control the infertility..

Table Effect of Fertisure in control of Infertility.

Technology Option	No.of trials	Check Per cent In fertility
T1:- Farmer practice (Common Salt).	10	66
T2:- UMMB		34

II. FRONTLINE DEMONSTRATION

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

S. N.	Crop/ Enter prise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of village	No. of benef	Area ha
1	Paddy	Weed control	Chemical herbicide	Use of Pyrobisphos@ 80 ml / acre as a post emergence	28	146	230
2	Maize	Varietal demonstration	High yielding variety	Use of variety Decalb -7074	72	319	325
3	Wheat	Weed control	Chemical herbicide	Use of *Clodinophos*@ 160g/ acre mixed with Metsulfuron methyl @ 8 g/ac	146	429	412
4	Paddy	Integrated disease manage	Management of bacterial leaf blight of paddy by	Management of bacterial leaf blight of paddy by copper oxy chloride @	20	377	427.0

		ment	copper oxy chloride @ 1250 gm/ha. + bacteri nasak @ 200 gm/ha.	1250 gm/ha. + bacteri nasak @ 200 gm/ha				
5.	Paddy	Integrated disease management	Management of root knot disease of paddy by use of carbofuron 3G @ 35 kg/ha soil application.	Control of root knot nematode by carbofuron 3G @ 35 kg/ha soil application with optimum moisture.	12	403	500	1
6	Cauliflower	Integrated pest management	Management of diamond back moth in cauliflower by Noveluron 10% E.C. @ 250 ml/ha.	Management of diamond back moth in cauliflower by Noveluron 10% E.C. @ 250 ml/ha two foliar sprays at 15 days interval	15	235	176.0	
8	French bean	Varietal evaluation	Use of improved variety	Kashi Param	20	42	22.0	
9	Mixed vegetable pickle.	Storage loss minimization techniques.	Demonstration of different natural and chemical preservative in pickle making.	Use of Glacial acetic acid , Sodium benzoate, sugar, salt, Oil, jaggy.	12	275	-	
10	Okra	Varietal evaluation	HYV	Kashi Kranti	30	165	120	
12	Mineral Mixture	Infertility management	Mineral Mixture	Mineral Mixture 40 g/day/animal	35	1742	-	
13	Poplar	Varietal evaluation	New clone G-48	G-48	62	280	170	

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall
					Proposed	Actual	SC/ST	Others	Total	
1	Paddy	Weed control	Chemical Herbicide	Kharif - 18	6.0	6.0	05	10	15	
2.	Wheat	Weed control	Chemical Herbicide	Rabi 18-19	6.0	6.0	04	11	15	
3	Paddy	Integrated Disease management	Management of bacterial leaf blight of paddy by copper oxy chloride @ 1250 gm/ha. + bacteri nasak @ 200 gm/ha.	Kharif 18	4.0	4.0	05	05	10	
4.	Paddy	Integrated disease management	Control of root knot nematode by Carbofuron 3 G @ 35 kg./ha soil application.	Kharif 18	4.0	4.0	02	08	10	
5	Lentil	Varietal demonstration and IPM	Varietal demo of IPL-406, L-4594 and integrated management of macrophomina blight and white fly	Rabi-18-19	20.0	20.0	26	38	64	
6	Moong	Varietal demonstration and IPM	Varietal demo of IPM 2-3 and integrated management of macrophomina blight and white fly	Zaid-19	16.0	16.0	05	39	44	
7	Cauliflower	Integrated	Management of	Rabi	4.0	4.0	01	09	10	

		Pest management	diamond back moth in cauliflower by Noveluron 10% E.C. @ 250 ml/ha.	18-18						
8	French bean	Varietal evaluation	Use of improved variety(Kashi Param)	Rabi 18-19	0.40	0.40	03	02	05	
9	Okra	Varietal evaluation	Use of improved variety(Kashi Kranti)	Zaid-19	0.80	0.80	03	05	08	
10	Mixed vegetable pickle.	Storage loss minimization techniques.	Demonstration of different natural and chemical preservative in pickle making	Rabi - 18-19	-	-	-	20	20	
				Total						

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					
Paddy	Kharif-2018	Irrigated	Sandy Loam	L	M	M	Wheat	01.07.18	18.10.18		
		do	Do	L	M	M	Wheat	03.07. 18	29.10. 18		
		do	Do	L	M	M	Wheat	03.07. 18	30.10. 18		
		do	Do	L	M	M	Wheat	07.07. 18	01.11. 18		
		do	Do	L	M	M	Wheat	04.07. 18	02.11. 18		
		do	Do	L	M	M	Wheat	05.07. 18	03.11. 18		
		do	Do	L	M	M	Wheat	05.07. 18	31.10. 18		
		do	Do	L	M	M	Wheat	04.07. 18	29.10.18		
		do	Do	L	M	M	Wheat	08.07. 18	03.11. 18		
		do	Do	L	M	M	Wheat	05.07. 18	02.11. 18		
		do	Do	L	M	M	Wheat	02.07. 18	06.11. 18		

		do	Do	L	M	M	Wheat	04.07. 18	02.11. 18		
		do	Do	L	M	M	Wheat	02.07. 18	31.10. 18		
		do	Do	L	M	M	Wheat	05.07. 18	03.11. 18		
		do	Do	L	M	M	Wheat	08.07. 18	03.11. 18		
Wheat	Rabi 18-19	Irrigated	Sandy Loam	L	M	M	Paddy	20.11. 18			
		do	Do	L	M	M	Sorghum	22.11. 18			
		do	Do	L	M	M	Paddy	05.12.18			
		do	Do	L	M	M	Paddy	18.11.18			
		do	Do	L	M	M	Paddy	25.11.18			
		do	Do	L	M	M	Maize	20.11.18			
		do	Do	L	M	M	Paddy	24.11.18			
		do	Do	L	M	M	Paddy	26.11.18			
		do	Do	L	M	M	Paddy	04.12.18			
		do	Do	L	M	M	Paddy	18.11.18			
		do	Do	L	M	M	Paddy	25.11.18			
		do	Do	L	M	M	Paddy	23.11.18			
		do	Do	L	M	M	Paddy	19.11.18			
		do	Do	L	M	M	Paddy	21.11.18			
		do	Do	L	M	M	Paddy	25.11.18			
Paddy	Kharif-2018	Irrigated	Sandy Loam	L	M	M	Wheat	01.07.18	18.10.18		
		do	Do	L	M	M	Wheat	03.07. 18	29.10. 18		
		do	Do	L	M	M	Wheat	03.07. 18	30.10. 18		
		do	Do	L	M	M	Wheat	07.07. 18	01.11. 18		
		do	Do	L	M	M	Wheat	04.07. 18	02.11. 18		
		do	Do	L	M	M	Wheat	05.07. 18	03.11. 18		
		do	Do	L	M	M	Wheat	05.07. 18	31.10. 18		
		do	Do	L	M	M	Wheat	04.07. 18	29.10. 18		
		do	Do	L	M	M	Wheat	08.07. 18	03.11. 18		
		do	Do	L	M	M	Wheat	05.07. 18	02.11. 18		
		do	Do	L	M	M	Wheat	02.07. 18	06.11. 18		
		do	Do	L	M	M	Wheat	04.07. 18	02.11. 18		

		do	Do	L	M	M	Wheat	02.07. 18	31.10. 18		
		do	Do	L	M	M	Wheat	05.07. 18	03.11. 18		
		do	Do	L	M	M	Wheat	08.07. 18	03.11. 18		
French bean	Rabi-17-18	Irrigated	Sandy Loam	L	M	M	Paddy	23.01.18	15.05.18		
		do	Do	L	M	M	Paddy	24.12.18	04.05.18		
		do	Do	L	M	M	Sugarcane	24.12.18	03.05.18		
		do	Do	L	M	M	Sugarcane	23.12.18	08.05.18		
		do	Do	L	M	M	Paddy	24.12.18	07.05.18		
		do	Do	L	M	M	Maize	23.12.18	2.05.18		
		do	Do	L	M	M	Okra	23.12.18	3.05.18		
		do	Do	L	M	M	Brinjal	23.12.18	5.05.18		
		do	Do	L	M	M	Paddy	22.12.18	2.05.18		
		do	Do	L	M	M	Sugarcane	22.12.18	9.05.18		
Wheat	Rabi 18-19	Irrigated	Sandy Loam	L	M	M	Paddy	22.11.18	18.04.18		
		do	Do	L	M	M	Paddy	24.11.18	18.04.18		
		do	Do	L	M	M	Paddy	21.11.18	16.14.18		
		do	Do	L	M	M	Paddy	25.11.18	15.04.18		
		do	Do	L	M	M	Paddy	23.11.18	20.04.18		
		do	Do	L	M	M	Sorghum	22.11.18	22.04.18		
		do	Do	L	M	M	Paddy	24.11.18	17.04.18		
		do	Do	L	M	M	Paddy	23.11.18	16.14.18		
		do	Do	L	M	M	Paddy	22.11.18	15.04.18		
		do	Do	L	M	M	Maize	25.11.18	21.4.18		
Poplar	Rabi 18-19	do	Loam	L	M	M	poplar		Continue		
				L	M	M					
				L	M	M					
French	Rabi-2018-	Irrigated	Sandy	L	M	M	Paddy	23.01.19			

bean	18		Loam						Continue
		do	Do	L	M	M	Paddy	24.01.19	
		do	Do	L	M	M	Sugarcane	24.01.19	
		do	Do	L	M	M	Sugarcane	23.01.19	
		do	Do	L	M	M	Paddy	24.01.19	
		do	Do	L	M	M	Maize	23.01.19	
		do	Do	L	M	M	Okra	23.01.19	
		do	Do	L	M	M	Brinjal	23.01.19	
		do	Do	L	M	M	Paddy	22.01.19	
Okra	Zaid-19	Irrigated	Sandy Loam	L	M	M	Potato	22.02.19	Continue
		do	Do	L	M	M	Potato	22.02.19	
		do	Do	L	M	M	Mustard	23.02.19	
		do	Do	L	M	M	Pea	23.02.19	
		do	Do	L	M	M	Mustard	22.02.19	
		do	Do	L	M	M	Pea	22.02.19	
		do	Do	L	M	M	Mustard	22.02.19	
		do	Do	L	M	M	Sugarcane	22.02.19	

Technical Feedback on the demonstrated technologies

S.N.	Crop	Feed Back
1	**Wheat**	Spray of clodinofob @160g/ha and metsulfuron @20g/ha is effective to control weeds
2	**Wheat**	Use of Beauveria bassiana @2.5kg/ha was found effective in management of termite
3	**Maize**	Variety double is better than existing variety(gaurav,kanchan etc)
4	**Paddy**	Copper oxy chloride @ 1250 gm/ha. + bacteri nasak @ 200 gm/ha wera found effective against BLB in paddy
	Paddy	Control of root knot nematode by carbofuron 3G @ 35 kg/ha soil application was found effective
5	**Urd**	Varietal demonstration of PU 41 and integrated management of YMV, macrophomina blight by Trichoderma @ 5kg/ha and white fly by 2 foliar sprays of neem oil @ 1 ml/lit of water
6	**Mustard**	Control of aphid by Acephate @ 1000g/ha foliar spray was effective
7	**Cauliflower**	Use of Noveluron 10% E.C. @ 250 ml/ha was found effective against Diamond Back Moth in cauliflower
8	**Paddy**	Application of oxydiargyl 80% @100g/ha is effective to control weed

10	**Fodder**	Minimizing the sterility problem and increase in milk production
11	**Mineral mixture**	Minimizing the sterility problem and increase in milk production and improvement in animal health
12	**French bean**	High yield variety is better than local variety.
13	**Okra**	High yield variety is better than local variety.
14	**Mixed vegetable pickle**	Scientifically used preservatives namely glacial acetic acid and sodium benzoate were effective

Farmers' reactions on specific technologies

S. No	Crop	Feed Back
1	**Wheat**	Clodinofob + Metsulfuron is quite effective against Phalaris minor and other broad leaves weed.
2	**Paddy**	copper oxy chloride @ 1250 gm/ha. + bacterinasak @ 200 gm/ha were effective against BLB in paddy
	Paddy	Control of root knot nematode by soil application of carbofuron 3G @ 35 kg/ha was found effective
3	**Maize**	Double variety has been appreciated by farmers in terms of productivity and low incidence of dieses
4	**Paddy**	Soil application of Ferterra0.4G @4 kg/acre is easy and cost effective
5	**Urd**	Neem oil is easily available and is effective against white fly
6	**Mustard**	Timely application of Imidaclorpid is effective in controlling aphid attack
7	**Cauliflower**	Use of Noveluron 10% E.C. @ 250 ml/ha is effective against Diamond Back Moth in cauliflower
8	**Paddy**	New generation herbicide is more effective than earlier.
9	**Paddy**	Low incidence of blast disease was observed.;
10	**Fodder**	Beneficial for animal health and barseem crop is found effective for soil health.
11	**Mineral mixture**	Minimizied the sterility problem and increase in milk production and improvement in animal health
12	**French bean**	Use of high yield variety appreciated by farmers in terms of productivity and net income.
13	**Okra**	Use of high yield variety appreciated by farmers in terms of productivity and net income.
14	**Mixed vegetable pickle**	Scientifically used preservatives namely glacial acetic acid and sodium benzoate were effective

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	06	07,12,21.09.18 08,15,22.01.19	280	
2	Farmers Training	17	June 18& Nov 18	410	
3	Media coverage	04		Mass	
4	Training for extension functionaries	04	June 18& Nov 18	30	

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	Other Parameter		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												
Groundnut																				
Sesamum																				
Mustard																				
Toria																				
Linseed																				
Sunflower																				

Soybean																				

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

** BCR= GROSS RETURN/GROSS COST

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											
Pigeonpea																			
Blackgram																			
Greengram	Varietal Demonstration	Newly released variety	HYV IPN 02-03	36	16.0	7.4	4.1	5.8	4.7	18.9	19150	31900	12750	1.66:1	18750		25850	7100	1.37:1
Chickpea																			
Fieldpea																			
Lentil	Varietal Demonstration	PL-08 ,		43	10	8.2	5.14	6.72	5.18	11.05	21140	34272	13132	1.62:1	20110		26418	6308	1.32:1
Horsegram																			

Lentil:-
Yield potential – 18-20 qt/ha
Duration - 125-130 days
Tolerant to rust and wilt.
Extra large seeded variety.

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																			
Wheat																			
Wheat timly sown HD-2967)	Weed control	Latest herbicides for reducing the cost of cultivation of late wheat clidinofob @160 g/acre Metsulphuran @ 8g /Acre	15	6.0	58.40	51.0	52.60	47.7	10.3	39	52	39750	85170	45420	2.17 :1	38550	80960	42390	2.09:1
Waterlogged Situation																			
Coarse Rice																			
										Weed count									
Scented Rice																			
1509/ 1121	Management of Bacterial leaf blight	Folier spray of copper oxy chloride @ 1250 gm/ ha + bactri nasak @ 200 gm/ha.	10	4.0	56.0	28.9	36.04	29.97	16.84	8.98	18.44	40000	72080	32080	1.8:1	46000	59940	13940	1.3 :1
1509/ 1121	Management of root knot nematode	Soil application of carbofuran 3G@ 35 kg/ha .	10	4.0	56.0	28.5	40.02	32.08	19.84	8.44	26.81	42000	80040	38040	1.9:1	52000	64160	12160	1.2:1
PS-2511	Weed	Pyrobisphos – 80	15	6.0	38.3	35.1	36.33	31.35	13.71	27	48	36370	76293	39923	2.09	35840	65835	29995	1.831

	control	E.C @ 100 ml/acre as P.E.													:1				
Maize Cyrus 502	Varietal Demonstration	Newly released HYV(Decalb 7074)	10	2.0	42.8	35.1	39.13	33.61	14.11			31660	69540	37887	2.19 :1	30870	58335	27465	1.88:1
Cauliflower (Girja, Suvidha)	Management of Diamond back moth	Novebron 10% EC	10	4.0	381.0	279.0	345.3	261.5	24.26	9.14	18.06	96000	207180	111100	2.15 :1	103000	156660	53660	1.52:1
Mandua																			
Barley																			
Amaranth																			
Millets																			
Jowar																			
Bajra																			
Barnyard millet																			
Finger millet																			

Vegetables																		
Bottlegourd																		
Bittergourd																		
Cowpea																		
Spongegourd																		
Petha																		
Tomato																		
										DF	DF							
Frenchbean Local Var.-Roshni	Varietal demonstration	High yielding variety (Kashi Param)	5	0.40	94.50	87.60	90.54	75.40	20.02	54	50	90540	226350	135810	2.50:1	85950	188500	102550	2.19:1
Okra	Varietal demonstration	High yielding variety (Kashi Kranti)	08	.80	84.42	75.40	80.54	69.2	16.38	47	42	58185	128864	70679	2.21:1	55150	110720	55570	2.0:1
Capsicum																		
Chilli																		
Brinjal																		
Vegetable pea																		
Softgourd																		

Okra Local Var.- Nitya																			
Colocasia (Arvi)																			
Broccoli																			
Cucumber																			
Onion																			
Coriender																			
Lettuce																			
Cabbage																			
Cauliflower																			
Elephant fruit																			
Flower crops																			
Marigold																			
	Varietal Demonstratio	High yielding variety	10	1.0	187.0	179.0	182.8	155.5	17.55	122		1189500	201080	106080	2.11:1	92500	171050	78550	1.85:1
Bela																			

Tuberose
Gladiolus
Fruit crops
Mango
Strawberry
Guava
Banana
Papaya
Muskmelon
Watermelon
Spices & condiments
Ginger
Garlic
Turmeric
Commercial Crops
Sugarcane

Potato																			
Medicinal & aromatic plants																			
Menthol ment																			
Kalmegh																			
Ashwag andha																			
Fodder Crops																			
Sorghum (F)																			
Cowpea (F)																			
Maize (F)																			
Lucern																			
Berseem																			
Oat (F)																			

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle																	
Buffalo																	
Buffalo Calf																	
Dairy																	
Mineral Mixture	Infertility problem	Management of Infertility through Mineral mixture.	10	10	I) Milk production ii) infertility	i) Milk production iii infertility	34.56	-	-	12500	32700	20200	2.6:1	12200	24300	12100	1.9:1
Mineral Mixture	Infertility problem	Management of Infertility through Mineral mixture.	30	30	I) Milk production ii) infertility	i) Milk production iii infertility	38.89	-	-	12600	32900	20300	2.7:1	12400	24400	12000	1.8:1
Poultry																	
Sheep & Goat																	
Vaccination																	

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

FLD on Livestock

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

Wheat :

1.Spray of .post emergence weedicide. 2 Stage of spray – 30-35 days after sowing.

Gross Cost :- Rs. 39750.00

Market Value :- Rs. 1700 / qt..

Paddy:-

1. Application of weedicide post emergence**. 2.** 2-4 days after transplanting.
2. Gross Cost :- Rs. 36370.00
3. Market Value :-Rs. 2000 / qt..

4. Application of Ferterra 0.3 G (granular insecticide) after 35 days of transplanting @ 4 kg/ha
5. Gross Cost :- Rs. 40000.00
6. Market Value :-Rs. 1800 / qt..

Frenchbean 1. Bushy type and early fruiting 2. Days to flower 54

Gross cost –Rs 90540.00/ha

Market value – Rs 2500/qt.

FLD on Fisheries

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

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

FLD on Other enterprises

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

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
Post harvest technology	Food preservation	20	Self life, adoptability	Till the end of pickle/100%	Pickle deteriorated after some time.

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major Parameter	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)

FLD on Demonstration details on crop hybrids

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

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	1	15		15	5		5	20		20
Resource Conservation Technologies	2	37		37	3		3	40		40
Cropping Systems										
Crop Diversification	1	19		19	1		1	20		20
Integrated Farming	1	16		16	4		4	20		20
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	1	17		17	3		3	20		20
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	**6**	**104**	**0**	**104**	**16**	**0**	**16**	**120**	**0**	**120**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising	1	11		11	9		9	20		20
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	**1**	**11**	**0**	**11**	**9**	**0**	**9**	**20**	**0**	**20**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	19		19	1		1	20		20
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	**1**	**19**	**0**	**19**	**1**	**0**	**1**	**20**	**0**	**20**
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										

Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)	**2**	**30**	**0**	**30**	**10**	**0**	**10**	**40**	**0**	**40**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management										
Dairy Management	2	37		37	3		3	40		40
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total	**2**	**37**		**37**	**3**		**3**	**40**		**40**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care	1		14	14		6	6		20	20
Others (pl specify)										
Total	**1**		**14**	**14**		**6**	**6**		**20**	**20**
VI Agril. Engineering										
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										

Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	1	2		2	14	4	18	16	4	40
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)	1	16		16	4		4	20		20
Total	**2**	**18**	**0**	**18**	**18**	**4**	**22**	**36**	**4**	**60**
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Plantation technolgy										
Disease management of Agro-forestry plants										
Others (pl specify)	1	7		7	13		13	20		20

Total	**1**	**7**		**7**	**13**		**13**	**20**		**20**
GRAND TOTAL	**13**	**180**	**14**	**194**	**56**	**10**	**66**	**236**	**24**	**260**

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	2	32		32	08		08	40		40
Resource Conservation Technologies	1	18		18	2		2	20		20
Cropping Systems										
Crop Diversification	2	35		35	5		5	40		40
Integrated Farming	1	20		20				20		20
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	1	16		16	4		4	20		20
Soil & water conservatioin										
Integrated nutrient management	1	20		20				20		20
Production of organic inputs										
Others (pl specify)										
Total	**7**	**121**	**0**	**121**	**19**	**0**	**19**	**140**	**0**	**140**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising	3	21		21	39		39	60		60
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	16		16	4		4	20		20
Others (pl specify)										
Total (a)	**4**	**37**		**37**	**43**		**43**	**80**		**80**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	1	19		19	1		1	20		20
Cultivation of Fruit	3	36		36	24		24	60		60
Management of young plants/orchards										
Rejuvenation of old orchards	1	11		11	09		09	20		20
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	**5**	**66**		**66**	**34**		**34**	**100**		**100**
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants	1	20		20				20		20
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)	**1**	**20**	**0**	**20**		**0**		**20**	**0**	**20**
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology	1	20		20				20		20
Processing and value addition										
Others (pl specify)										

Total (e)	1	20		20				20		20
f) Spices										
Production and Management technology	1	01		01	19		19	20		20
Processing and value addition										
Others (pl specify)										
Total (f)	**1**	**01**	**0**	**01**	**19**	**0**	**19**	**20**	**0**	**20**
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)	**12**	**144**	**0**	**144**	**96**	**0**	**96**	**240**	**0**	**240**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management										
Dairy Management	10	164		164	36		36	200		200
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management (01)	01	17		17	03		03	20		20
Disease Management	03	48		48	12		12	60		60
Feed & fodder technology (02)	02	35		35	05		03	40		40
Production of quality animal products										
Others (pl specify)										
Total	**16**	**264**	**3**	**267**	**53**	**0**	**53**	**317**	**3**	**320**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	2		40	40					40	40
Minimization of nutrient loss in processing										
Processing and cooking	1		17	17		3	3		20	20
Gender mainstreaming through SHGs	1		18	18		2	2		20	20
Storage loss minimization techniques										
Value addition										
Women empowerment	1		20	20					20	20
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care	2		36	36		4	4		40	40
Others (pl specify)										
Total										
VI Agril. Engineering										
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										

Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total	**7**	**0**	**131**	**131**	**0**	**9**	**9**	**0**	**140**	**140**
VII Plant Protection										
Integrated Pest Management	15	234	17	251	40	12	52	274	29	303
Integrated Disease Management	01	20		20				20		20
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**16**	**254**	**17**	**271**	**40**	**12**	**52**	**294**	**29**	**323**
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies	6	93		93	27		27	120		120
Nursery management	1	18		18	2		2	20		20

Integrated Farming Systems	1	19		19	1		1	20		20
Others (pl specify)	**4**	**46**		**46**	**34**		**34**	**80**		**80**
Total	**12**	**176**	**0**	**176**	**64**	**0**	**64**	**240**	**0**	**240**
GRAND TOTAL	**70**	**959**	**151**	**1110**	**272**	**21**	**293**	**1231**	**172**	**1403**

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	3	47	0	47	13	0	13	60	0	60
Resource Conservation Technologies	3	55	0	55	5	0	5	60	0	60
Cropping Systems										
Crop Diversification	3	54	0	54	6	0	6	60	0	60
Integrated Farming	2	36	0	36	4	0	4	40	0	40
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	1	17	0	17	3	0	3	20	0	20
Soil & water conservatioin	1	16	0	16	4	0	4	20	0	20
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	**13**	**225**	**0**	**225**	**35**	**0**	**35**	**260**	**0**	**260**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables	3	21	0	21	39	0	39	60	0	60
Nursery raising	1	11	0	11	9	0	9	20	0	20
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	16	0	16	4	0	4	20	0	20
Others (pl specify)										
Total (a)	5	48	0	48	52	0	52	100	0	100
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	1	19	0	19	1	0	1	20	0	20
Cultivation of Fruit	4	55	0	55	25	0	25	80	0	80
Management of young plants/orchards										
Rejuvenation of old orchards	1	11	0	11	9	0	9	20	0	20
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
Total (b)	6	85	0	85	35	0	35	120	0	120
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants	1	20	0	20	0	0	0	20	0	20
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)	1	20	0	20	0	0	0	20	0	20
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										

Total (d)										
e) Tuber crops										
Production and Management technology	1	20	0	20	0	0	0	20	0	20
Processing and value addition										
Others (pl specify)										
Total (e)	1	20	0	20	0	0	0	20	0	20
f) Spices										
Production and Management technology										
Processing and value addition	1	1	0	1	19	0	19	20	0	20
Others (pl specify)										
Total (f)	1	1	0	1	19	0	19	20	0	20
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)	**14**	**174**	**0**	**174**	**106**	**0**	**106**	**280**	**0**	**280**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total										
IV Livestock Production and Management										
Dairy Management	12	201	0	201	39	0	39	240	0	240
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	17	3	20	0	0	0	17	3	20
Disease Management	3	48	0	48	12	0	12	60	0	60
Feed & fodder technology	2	35	0	35	5	0	5	40	0	40
Production of quality animal products										
Others (pl specify)										
Total	**18**	**301**	**3**	**304**	**56**	**0**	**56**	**357**	**3**	**360**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	2		40	40			0	0	40	40
Minimization of nutrient loss in processing										
Processing and cooking	1		17	17		3	3	0	20	20
Gender mainstreaming through SHGs	1		18	18		2	2	0	20	20
Storage loss minimization techniques										
Value addition										
Women empowerment	1		20	20			0	0	20	20
Location specific drudgery reduction technologies				0			0	0	0	0

Rural Crafts				0			0	0	0	0
Women and child care	2		36	36		4	4	0	40	40
Others (pl specify)				0			0	0	0	0
Total	**7**	**0**	**131**	**131**	**0**	**9**	**9**	**0**	**140**	**140**
VI Agril. Engineering										
Farm Machinary and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	16	236	17	253	54	16	70	290	33	323
Integrated Disease Management	1	20	0	20	0	0	0	20	0	20
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**17**	**256**	**17**	**273**	**54**	**16**	**70**	**310**	**33**	**343**
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										

Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies	6	93	0	93	27	0	27	120	0	120
Nursery management	1	18	0	18	2	0	2	20	0	20
Integrated Farming Systems	1	19	0	19	1	0	1	20	0	20
Plantation technology										
Disease management in Agro-forestry plants										
Others (pl specify)	5	53	0	53	47	0	47	100	0	100
Total	**13**	**183**	**0**	**183**	**77**	**0**	**77**	**260**	**0**	**260**
GRAND TOTAL	**83**	**1139**	**165**	**1304**	**328**	**31**	**359**	**1467**	**196**	**1663**

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										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	1	11	0	11	4	0	4	15	0	15
Seed production	2	21	0	21	9	0	9	30	0	30
Production of organic inputs	1	15	0	15	0	0	0	15	0	15
Planting material production	2	27	0	27	3	0	3	30	0	30
Vermi-culture										
Mushroom Production	1	10	0	10	6	0	6	16	0	16
Bee-keeping	1	15	0	15	0	0	0	15	0	15
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing	1	13	0	13	2	0	2	15	0	15
Quail farming										
Piggery										
Rabbit farming	1	15	0	15	0	0	0	15	0	15
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)	1	9	0	9	6	0	6	15	0	15
TOTAL	**10**	**136**	**0**	**136**	**30**	**0**	**30**	**166**	**0**	**166**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
Bio Agent production										
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										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	1	11	0	11	4	0	4	15	0	15
Seed production	1	21	0	21	9	0	9	30	0	30
Production of organic inputs	1	15	0	15	0	0	0	15	0	15
Planting material production	2	27	0	27	3	0	3	30	0	30
Vermi-culture										
Mushroom Production	1	10	0	10	6	0	6	16	0	16
Bee-keeping	1	15	0	15	0	0	0	15	0	15
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										

Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing	1	13	0	13	2	0	2	15	0	15
Quail farming										
Piggery										
Rabbit farming	1	15	0	15	0	0	0	15	0	15
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)	1	9	0	9	6	0	6	15	0	15
TOTAL	**10**	**136**	**0**	**136**	**30**	**0**	**30**	**166**	**0**	**166**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	2	17		17	3		3	20	0	20
Integrated Pest Management	4	35	5	40			0	35	5	40
Integrated Nutrient management	2	20		20	2		2	22	0	22
Rejuvenation of old orchards	0			0			0	0	0	0
Protected cultivation technology	1	12		12	3		3	15	0	15
Production and use of organic inputs	2	14		14	6		6	20	0	20
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production	1	10		10	5		5	15	0	15
Household food security	1		15	15			0	0	15	15
Any other (pl.specify)Drudgery reduction	2	8	7	15	2	3	5	10	10	20
TOTAL	**15**	**116**	**27**	**143**	**21**	**3**	**24**	**137**	**30**	**167**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	15	0	15	0	0	0	15	0	15

Integrated Pest Management	3	30	3	33			0	30	3	33
Integrated Nutrient management	1	7		7	3		3	10	0	10
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	1	8	2	10			0	8	2	10
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	**6**	**60**	**5**	**65**	**3**	**0**	**3**	**63**	**5**	**68**

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	3	32	0	32	3	0	3	35	0	35
Integrated Pest Management	7	65	8	73	0	0	0	65	8	73
Integrated Nutrient management	3	27	0	27	5	0	5	32	0	32
Rejuvenation of old orchards										
Protected cultivation technology	1	12	0	12	3	0	3	15	0	15
Production and use of organic inputs	3	22	2	24	6	0	6	28	2	30
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production	1	10	0	10	5	0	5	15	0	15
Household food security	1	0	15	15	0	0	0	0	15	15
Any other (pl.specify)Drudgery reduction	2	8	7	15	2	3	5	10	10	20
TOTAL	**21**	**176**	**32**	**208**	**24**	**3**	**27**	**200**	**35**	**235**

Table. Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management	**03**	**100**	**10**	**110**	**35**	**05**	**40**	**135**	**15**	**150**
Increasing production and productivity of crops										
Commercial production of vegetables										

Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total										
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity Building and Group Dynamics										
Others (pl. specify)										
Total										
GRAND TOTAL										

* SVPUAg&T, Meerut(State Gov. Ag. Deptt.)
** NHM
*** BEDF

Name of sponsoring agencies involved

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										

Income generation activities										
Vermicomposting										
Production of bio-agents, bio-pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm machinery										
and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dying etc.										
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total										

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	325	1862	135	1997
Diagnostic visits	65	342	15	357
Field Day	8	416	12	428
Group discussions	62	725	4	729
Kisan Ghosthi	5	4762	133	4895
Film Show				0
Self -help groups	1	7		7
Kisan Mela	1	450	25	475
Exhibition	3	875	76	951
Scientists' visit to farmers field	376	1762		1762
Plant/animal health camps				0
Farm Science Club				0
Ex-trainees Sammelan	4	93		93
Farmers' seminar/workshop				0
Method Demonstrations	8	176	8	184
Celebration of important days	2	125	4	129
Special day celebration	1	445	73	518
Exposure visits	4	206		206
Others (pl. specify)				
Lecture delivered	153	9250	63	9313
Congress grass control prog.	02	80	4	84
Farmers visit to KVK	01	1823	43	1866
Kharif and Rabi Abhiyan	02	156	13	169
Total	**1023**	**23555**	**608**	**24163**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	--
Extension Literature	04
News paper coverage	84
Popular articles	12
Radio Talks	-

TV Talks	-
Animal health amps (Number of animals treated)	-
Womens Day	35
Programme on Nematode	52
Total	**187**

Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Bulandshahr	Text only							
	Voice only	965	250	275	82	876	272	2720
	Voice & Text both							
	Total Messages	**965**	**250**	**275**	**82**	**876**	**272**	**2720**
	Total farmers Benefitted	**1360**	**575**	**450**	**205**	**1467**	**520**	**4577**

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Acts	Number of Participants	Related crop/livestock Technology
	Gosthies	1	126	All crop and animals
	Lectures organized	2	253	All crop and animals
	Exhibition	1	450	All crop and animals
	Film show			
	Fair	1	450	
	Farm Visit	1	172	
	Diagnostic Practicals			
	Distribution of Literature (No.)	1	1526	
	Distribution of Seed (q)			Wheat
	Distribution of Planting materials	1	1100	Tomato, Brinjal. Chilly, botal guard, Qauliflower
	Bio Product distribution (Kg)	-	-	
	Bio Fertilizers (q)	-	-	
	Distribution of fingerlings	-	-	
	Distribution of Livestock specimen (No.)	-	-	
	Total number of farmers visited the technology week		212	

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/ Remark
Cereals	Paddy (Kharif- 2017)	P-1121		157.10	346000	-
	Wheat (Rabi 2016-17)	WR-544		327.60	512800	

Oilseeds						
Pulses	Pigeon Pea	UPAS-120		5.95	15000	
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others	Dencha	PD-1		2.2	8000	
Total				**489.85**	**881800**	

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings	Tomato	Pusa Gaurav		2000	700	15
	Brinjal	Pusa hy-6		1000	500	10
	Bottel gourd	Pusa naveen		500	2000	20
Fruits						
Ornamental plants	Marigold			1000	300	10
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
	Onion			20000	2000	53
Total				**24500**	**5500.00**	**108**

Production of Bio-Products:

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

Table: Production of livestock materials

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

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	875	875	03	-
Water				
Plant				
Manure				
Others (Pl. specify)				
Total				

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
Krishi Vigyan Kendra, Bulandshahr	01

IX. NEWSLETTER

Name of News letter	No. of Copies printed for distribution

X. PUBLICATIONS

Category	Number
Research Paper	11
Technical bulletins	
Technical reports	36
Others (pl. specify)	
Folder	04
Abstract	32
Booklet	
Popular Article	12

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

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

XII. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties:

Crops/cultivars	Area (ha)	Number of beneficiaries
Total		

Major area coverage under alternate crops/varieties:

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

Farmers-scientists interaction on livestock management:

Livestock components	Number of interactions	No. of participants
Total		

Animal health camps organized:

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

Seed distribution in drought hit states

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

Large scale adoption of resource conservation technologies

Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Laser leveling	200	58
Total		

Awareness campaign

	Meetings		Gosthies		Field days		Farmers fair		Exhibition	
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers
Seed Treatment	15	1022	05	425	04	145	01	326	03	615
Parthanium campaign	02	168	01	115						
Total	**17**	**1190**	**06**		**04**	**145**	**01**	**326**	**03**	**615**

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

Total				

B. HRD activities organized in identified areas for KVK staff by Zonal Project Directorate

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

XIV. CASE STUDIES:

Name of the KVK **:** Krishi Vigyan Kendra, Bulandshahr

TITLE **:** Increase production and potential of Turmeric**.**

Introduction **:** Pant pritam, Vallabh Priya, Roma & Rashmi**.**

KVK intervention **:** Motivation and technical supervision.

Output **:** Started from 0.5 ha. with net return of 1.02 lacs and expended upto 3.8 ha. with net return of 8.28 lacs.

Outcome Impact **:** Initially started with 2.5 ha. and it is being extended upto 50.6 ha in different villages.

Name of the KVK **:** Krishi Vigyan Kendra, Bulandshahr

TITLE : Increasing production potential by newly released hybrid variety of Maize **.**

Introduction **:** Double, HQPM-1.

KVK intervention **:** Training and Demonstration conducted on farmers field.

Output : Most of the area under composite var. has been replaced by Double and HPQM-1 i.e. from 49 % to 83 %.

Outcome Impact : Due to its high yielding potential it is getting popularized in the district .

Name of the KVK **:** Krishi Vigyan Kendra, Bulandshahr

TITLE : Increase production and potential of Chilly**.**

Introduction : Arka Maghena, G-4.

KVK intervention **:** Training, Demonstration.

Output **:** Started with .20 ha chilly in 2011and gain net income Rs. 83495.00/ha and now 0.40 ha. chilly in 2015 and gain net income Rs. 182450.00/ha.

Outcome Impact **:** Started with yield 102.5 qt / ha and extended to 140.00 qt / ha.

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

B. Details on Farmer's visit

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

C. Facilities in the ATIC which are in operation

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

D. Technology information provided

D.1. Details on technology information

S. No	Information category	Number of ATICs	Total number of farmers benefitted	Category of information						
				Varieties / hybrids	Pest management	Disease management	Agro-techniques	Soil and water conservation	Post Harvest technology and Value addition	Animal Husbandry and fisheries
01	Kisan Call Centre / other Phone calls from farmers									
02	Video shows									
03	Letters received									
04	Letters replied									
05	Training to farmers / technocrats / students									

D.2 . Publications (Print & Electronic media)

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

E Technology Products provided:

S. No	Particulars	Quantity	Unit of quantity	Value in Rs.	Number of farmers benefited
01	Seeds		Quintal		
02	Planting materials	2260	Numbers	Rs 500.00	23
03	Livestock		Numbers		
04	Poultry birds		Numbers		
05	Bio-products		Quintals		
06	Others pl. specify				

F. Technology services provided

S. No	Particulars	Number of farmers benefited
01	Soil and water testing	170
02	Plant diagnostics	152
03	Details about the services to line Departments	5050
04	Others if any (please specify)	

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION

States covered:

Number of Directorates of Extension:

A. Details on Directors of Extension

S. No	Name of the SAU	Name of the Director of Extension	Number of KVKs for which technological backstopping is provided					
	SVP University of Agriculture& Technology	Dr S.K. Sachan	SAU/CAU 13	DU	ICAR	NGO	SDA	Others (pl. specify)

B. Workshops / meetings organized

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

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

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

D. Overseeing of KVKs activities

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

E. Publication on Technology inventory :

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

F. Technological Products provided to KVKs

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

Success story of chilly farmer

In district Bulandshahr there are majority of small and marginal farmers involved in Agriculture. It is really difficult to improve the falling socio- economic status of these farmers due to lack of resources required for farming. Diversification in agriculture is a big demand of today. Everybody who is involved in agriculture need to break the trend and step forward to raise the level of living.

Taking such points under consideration 4 years ago one such marginal farmer named Shri – Raj kumar s/o Sri- Amar Singh Vill – Baral , Bulandshahr village which falls under NCR region hence facilitated by good market, being one of the adopted village of KVK, Bulandshahr, started cultivation of green chilly in 2012 very small area (0.08 ha.). He contacted KVK scientists and attained trainings and demonstrations on chilly cultivation, like production technology, improved high yielding varieties, seed treatment, IPM ractices and other such aspects.

In 2013 after regular visits of KVK Scientists he increased the area up to 0.20 ha and acquired yield of 120.8 quintals / ha with net profit of Rs 131955.00. Similarly, the next year 2017 again expanded area up to 0.50 ha and flourished yield of 145.0q / ha with net profit of Rs 190000.00 . At present time his crop is still there in the field and the area is 0.50 ha.

Now he is quiet satisfied with the production and the income he benefitted with. Earlier he was involved in traditional farming system and so he was dissatisfied with the less earnings. Now he is happy and in regular touch of KVK and eager to introduce some other diversifications in the farming pattern.

The details of cultivation is given below:

Year	Area (ha)	Yield q/ha	Gross Income	Cost of cultivation	Net income
2012	0.08	102.5	169125	85630	83495
2013	0.20	120.8	223480	91525	131955
2014	0.40	132.6	264000	98500	165500
2015	0.50	135.8	278000	103350	174650
2016	0.50	140.0	294000	111550	182450
2017	0.50	145.0	305000	115000	190000

Success Story of Turmeric

Back Ground

No Commercial Cultivation of Turmeric.
Farmer's use local varieties.
Introduction of variety Pant Pritam & Vallabh Priya.
Encouragement of turmeric as an intercrop in Mango orchard.

Details of farmer

Name :Sh. Gyanendra Singh
Village :Ali pur Gijhori, Bulandshahr.
Area :4.7 ha.
Varieties :Pant Pritam, Vallabh Priya, Roma,Rashmi.
Other Activities :Establishment of Turmeric Processing plant in 2013.

Year	**Area (ha)**	**Yield raw(qt.)**	**Yield Powder (qt.)**	**Power Rate (Rs./qt)**	**Gross Return (Rs Lacs)**	**Cost of Cultivation (Rs in Lacs)**	**Net Return (Rs in Lacs)**
2013	0.5	105.0	17.0	9000.00	1.53	0.51	1.02
2014	2.0	430.0	77.4	9000.00	6.97	2.25	4.72
2015	3.0	705.0	130.4	7000.00	9.13	3.95	5.18
2016	3.6	865.0	173.0	8500.00	14.70	5.28	9.42
2017	3.8	984.0	160.0	8300.00	13.28	5.00	8.28

Area Under turmeric was 2.5 ha. In 2012 and extended up to 59.0 ha. In 2017.

Case study of Maize

Back Ground

- Lack of suitable varieties for cob purposes.
- Farmer's use local varieties.
- Introduction of variety HQPM-1 & Double.
- Encouragement of suitable cob maize varieties.

Technology transfer:
Seed rate:20 kg /ha
Spacing- 60 x 30 cm
NPK – 120:60:40+ 25 kg Zink
IPM Technology

Year	**Total area (ha.)**	**Area under old/ Improved varieties (ha.)**		
Kharif		Comp. var.	Double	HQPM-1
2012	31100	51 %	34 %	15 %
2013	32200	42 %	38 %	20 %
2014	34600	32 %	45 %	23 %
2015	39500	27%	48%	25%
2016	42700	23%	50%	27%
2017	50500	17%	54%	29%

Area under Imp. Var. maize increased from 49 % to 83 %.

Yield /ha (Cob weight)		Net Income / ha.	
Comp. var.	HQPM-1	Comp. var.	HQPM-1
42.00	58.0	60000.00	92000.00

Action Photograph

गांव–बरोली वासुदेवपुर विकास खन्ड–स्याना

गांव–अलीपुर गिझौरी विकासखन्ड

गांव–सूरजपुरटीकरी विकासखन्ड–जहांगीरावाद

गांव–सीकरी विकास खन्ड–ल