FOR PREPARATION OF ANNUAL REPORT (Jan-2019-Dec-2019)

APR SUMMARY

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

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	53	890	170	1060
Rural youths	09	135	0	135
Extension functionaries	14	210	0	210
Sponsored Training	05	205	44	249
Vocational Training				
Total	**81**	**1440**	**210**	**1654**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds			
Pulses	95	20	95
Cereals	35	14	35
Vegetables	10	04	10
Other crops			
Hybrid crops	10	02	10
Total			
Livestock & Fisheries	38	-	38
Other enterprises	30		30
Total			
Grand Total	218	40	218

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	03	03	14
Livestock	02	02	21
Various enterprises	02	02	10
Total	07	07	45
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	07	07	45

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	1035	24163
Other extension activities	27	-
Total	1062	24163

5. Mobile Advisory Services

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

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	**427.35**	**1146925**
Planting material (No.)		
Bio-Products (kg)		
Livestock Production (No.)		
Fishery production (No.)		

7. Soil, water & plant Analysis

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

8. HRD and Publications

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

DETAIL REPORT OF APR

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 Shiv Singh	05732-223103	09412484275	

1.4. Year of sanction: 2008

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

Sl. No.	Sanctioned post	Name of the incumbent	Design-ation	Discip-line	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Perman-ent /Temp-orary	Category (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Programme Coordinator											
2	Subject Matter Specialist	Dr Reshu Singh	SMS/ Asstt Prof.	Plant Protection	15600-39100	30760	23-06-2008	Permanent	SC	9412672253	40	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	39	dr.manojktomar@gmail.com
5	Subject Matter Specialist	Smt KM. Tripathi	SMS/ Assit Prof.	Home Science	15600-39100	27390	26-12-2008	Permanent	other	9410675174	39	kirtitripathi.dixit@ gmail.com
6	Computer Programmer	Sh. Zayeem Khan	Prog. Assist (Computer)	Computer		52000	30-07-2007	Permanent	other	8126504311	38	zksvpu@yahoo.com
7	Farm Manager	Sh. R.K Sirohi	Farm manager	Seed technology		50500	26-12-2008	Permanent	OBC	8273443441	52	sirohirk@gmail.com
8	Accountant / Superintendent	Sh. R.K Garg	Accountant/superintendent	Account		74300	17-01-1994	Permanent	other	9457034310	52	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	42	
11	Supporting staff	Sh. Harish Kumar	Attendent			24200	26-12-2008	Permanent	SC	8439198655	43	

1.6. Total land with KVK (**in ha**) :10.00 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 & Tubewell	Revolving Fund	April, 2014	2530	669000.00	Oct, 2011	-	Complete

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
01 Computer	2010		Not working
04 Computer	2017	197470.00	Working
02 Lab top	2017	108980.00	Working
Digital camera	2010	15000.00	Not working
01 Laser printer	2010	12000.00	Not working
02 Laser printer	2017	36400.00	Working
01 LED 42”	2017	55745.00	Working
Motrized Screen	2017	25569.00	Working

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

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	18.02.2019	1. Dr. S. K. Sachan, Director Extension SVPUAT, Meerut	1. New varieties of wheat should be introduce in demonstration, include DBW-02 in demonstration 2. Include trichoderma and bio pesticide in the OFTs of plant protection 3. Do not acknowledge farmers to old varieties in Training, OFTs and FLDs. 4. Implements related to CRM should be provided free of cost to farmers for training 5. Breed Kadaknath of poultry of chattishgarh should be introuduce in demonstrations, as their eggs and meat are in high demand 6. Breed of animal should be reported in demonstration	1. New varieties of wheat are introduce in upcoming demonstration 2. Trichoderma and bio pesticide are introudue in OFTs 3. New varieties of all the crops are being introduce in the action plan 4. Implements of CRM are given to farmers for free testing 5. It will be taken in upcoming FLDs and OFTs 6. Breed of animal are reported in progress report
2.		Sh. Dilip kumar Saini, DHO Bulandshahr	1. Demonstration on sugarcane should be increased	1 Demonstration on sugarcane are taken in Action Plan
3		Sh. Rana, DDM NABARD	Poultry, rabbit farming and by pass feed for protein enhancement should be introduce to the farmers	Poultry and Rabbit farming will be taken in upcoming action plan. By pass feed for protein enhancement has also been to introduce to the farmers
4		Sh. Gyanendra Singh, Progressive farmer	Scientist of Horticulture is required to be appointed in KVK.	Point under consideration.
5		Smt. Urmila Chaudhary, Member SAC	Programme of doubling the farmers income village viz Devli and chawali should be supervised.	They have been supervised by the Incharge KVK.

Note : This yellow mark may be treated as an example

**** Attach a copy of SAC proceedings along with list of participants***

2. DETAILS OF DISTRICT (2019)

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 2019

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

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 2019 **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 (627)	Moong (7.2)	634.2	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 (638)	Moong (5.8)	643.8	73450	130425	2.78:1	

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 (627)	Mustard (19)	646	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 (642)	Mustard (14)	656	72250	132750	2.81:1	

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	2.01:1	

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	61225	67650	2.16:1	

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	64750	72220	2.34:1	

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 2019

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
08	08	08	08	40	40	218	218

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	53	53	1060	1060	1035	1062	20000	24163
Rural youth	09	09	135	135				
Extn. Functionaries	14	14	210	210				
	76	76	1405	1405	1035	1062	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	689.75	-	-		

I.A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Nutrient Management		T1-Farmers Practice(DAP) T2-3 spray NPK (18:18:18:6) @ 4 kg /Acre	01	04
Varietal Evaluation				
Integrated Pest Management	Tomato	T_1: Farmers Practice- Chloropyriphos 20 EC @ 1000 ml/ha (3-4 sprays) T_2: Amamectin benzoate @ 250 gm/ha 2 foliar spray (2 foliar sprays at 15 days interval) T_3: HaNPV @ 250 LE/ha 2 foliar spray (2 foliar sprays at 15 days interval)	01	05
Integrated Crop Management				
Integrated Disease Management	Paddy	T_1: Farmers practice- use of carbendazim @ 250 gram/ha T_2: Trifloxistrobin 50%+ Tebuconazole 25% (76% WG) @ 0.5 gm/lit water	01	05

		(Seed dip treatment + foliar spray on 12 days old nursery		
Small Scale Income Generation Enterprises		T1:- Use as perish able cooked items . T2- Nutritional Badis	01	05
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Total				

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	Buffalo	T1:- Farmer practice (Common Salt). T2:- UMMB	01	08
Nutrition Management				
Production and Management				
Others (Pl. specify)	cow	T1:- Farmer practice (Common Salt). T2:- Gonadotropin Harmone	01	13
Total			02	21

Summary of technologies assessed under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers
Women and child care	Soybean	T1:- Use of ghee and supplementary food available in market	01	05
		T2- soy and pro mixture		

Note: Suppose **IPM in paddy** is the technology assessed by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with 50*5 = 250 trials and No. of KVKs will be 50. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

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				
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

Note: Suppose **IPM in paddy** is the technology refined by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with 50*5 = 250 trials and No. of KVKs will be 50. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

(From each state please include the full details of three OFTs on technology assessment and or refinement under the broad thematic areas such as Integrated Crop Management, weed management, pest and disease management, nutrient management, resource conservation, livestock enterprises, Integrated Nutrient Management)

(The model for preparing the same is furnished below)

NUTRIENT MANAGEMENT

Problem definition: Find out alternate fertilizer formulation for boosting/enhancing wheat (HD-2967) productivity

Technology Assessed : To find out the dose of water soluble fertilizer

Performance of water soluble 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	91	412	44.0	-	2.04:1
T2-3 spray NPK (18:18:18:6) @ 4 kg /Acre		94	428	51.8	15.05	2.29:1

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 :- 54716.00

Market Rate :- RS. 1840 /qt.

Farmers field receiving foliar spray of water soluble fertilizer exhibited superior plant growth and yield.

PEST AND DISEASE MANAGEMENT

Problem definition: Incidence of bakane disease in paddy crop resulting in to yield loss of upto 15%

Technology Assessed or Refined: Management of bakane disease of paddy crop.

Rice is an important cereal crop of Northern India, particularly basmati rice varieties dominates cultivated area of this region. However, since last few years incidence of bakane disease has increased in this crop. KVK, Bulandshahr conducted ON Farm Trials to assess the management technology. The assessed technology of seed treatment with Trifloxistrobin 50%+ Tebuconazole 25% (75% WG) + foliar spray at 12 days old nursery @ 0.5 gm/lit water decreased the percent of disease incidence from 15.42% to 5.9% and increased yield by 18.55%

Table Effect of with Trifloxistrobin 50%+ Tebuconazole 25% (75% WG) in the management of bakane disase of paddy.

Technology Option	**No.of trials**	**Incidence of Bakane disease (%)**	**Yield (kg/ha)**	**% Increase in yield over farmer's practice**
T_1: Farmers practice- Carbendazim @ 1 gm/lit foliar spray	05	15.42	32.76	-
T_2: Trifloxistrobin 50%+ Tebuconazole 25% (76% WG) (Seed dip treatment + foliar spray at 12 days old nursery		5.9	38.84	61.73

PEST AND DISEASE MANAGEMENT

Problem definition: Incidence of tomato fruit borer (*Helicoverpa armigera*) in tomato crop resulting in quantitative and qualitative loss of upto 55%

Technology Assessed or Refined: Management of tomato fruit borer in tomato crop.

Among various vegetables tomato is most popular and extensively consumed vegetable crop. Among all the factors known for yield loss in tomato crop, insect pests are of prime importance which affects not only its yield but also spoil the quality. KVK, Bulandshahr conducted On Farm Trials to assess the management measures. The assessed technology of T_1: Farmers practice using Chloropyriphos 50% + Cypermethrin 5% EC @ 1 lit/ha, T_2: Foliar spray with Amamectin benzoate 5% SG @ 250 gm/ha and T_3: Foliar spray with HaNPV @ 250 LE/ha. Trials are going on and results are awaited.

Table Effect of insecticides (Chemical and biological) against *H. armigera* in tomato crop

Technology Option	**No.of trials**	**Incidence of *H. armigera* (%)**	**Yield (kg/ha)**	**% Increase in yield over farmer's practice**
T_1: Farmers practice using Chloropyriphos 50% + Cypermethrin 5% EC @ 1 lit/ha	05	Results awaited		
T_2: Foliar spray with Amamectin benzoate 5% SG @ 250 gm/ha				

T_3: Foliar spray with HaNPV @ 250 LE/ha		

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		80.00	250.00	100%

Nutritional Badis are 100% save for storage and have high self life. Taste is quite palatable and marketing of moong dal badis was more than urd dal badis.

Women and Child Care

Problem definition: Prevalence of mal nutrition among pregnant women and children
Technology assessed: Assessment of soy and pro mixture to come back mal nutrition among pregnant women and children

Table. Performance of soy and pro mixture

Technology Option	No.of trials	Cost Rs/kg	Cost Rs/kg	Other parameters
T1:- Use of ghee and supplementary food available in market	05	**Demonstration**	**Market**	**Shelf life**
T2- soy and pro mixture		75.00	350.00	80%

Soy and pro mixture is 100% safe for consumption it is made up off locally available resources and soybean and lactogen powder. Due to its high palatability. It is accepted among mal nourished children and pregnant women.

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 UMMB in control of Infertility.

Technology Option	No.of trials	Percent Infertility
T1:- Farmer practice (Common Salt).	8	64
T2:- UMMB		36

Regular use of UMMB resulted in significant decrease in infertility problem in dairy animals.

Table Effect of Gonadotropin Harmone in control of Infertility.

Technology Option	No.of trials	Percent Infertility
T1:- Farmer practice (Common Salt).	13	59
T2:- UMMB		41

Regular use of Gonadotropin Harmone resulted in significant decrease in infertility problem in dairy animals.

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2018 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1	Maize	Varietal demonstration	High yielding variety	Use of variety Decalb -7074	84	402	380
2	Wheat	Weed control	Chemical herbicide	Use of *Clodinophos*@ 160g/ acre mixed with Metsulfuron methyl @ 8 g/ac	166	478	502
3	Lentil	Varietal demonstration	PL-08	Use of variety PL-08	07	87	30
4	Green Gram	Varietal demonstration	IPM-02-03	Use of variety IPM-02-03	05	57	22
5	Mixed vegetable pickle.	Storage loss minimization techniques.	Demonstration of different natural and chemical	Use of Glacial acetic acid @10ml/kg , Sodium	13	290	-

			preservative in pickle making.	benzoate @2gm/kg, sugar, salt, Oil, jaggy.			
6	Mango	Storage loss minimization techniques	Demonstration of different natural preservatives in ripe mango processing	Use of sugar@3kg per 1 kg mango pulp	02	10	
7	Mineral Mixture	Infertility management	Mineral Mixture	Mineral Mixture 40 g/day/animal	27	1547	-
8	**Paddy (Pusa 1121/ 1509)**	IDM (Bacterial leaf blight)	Copper oxychloride @ 1250 gm/ha + Bacterinashak @ 200 gm/ha	Copper oxychloride @ 1250 gm/ha + Bacterinashak @ 200 gm/ha	25	10	22
9	**(Pusa 1121/ 1509)**	IDM (Root knot nematode)	Carbofuran # G @ 33 Kg/ha (soil application at 12 days old nursery and at 45 days old transplanted crop)	Carbofuran # G @ 33 Kg/ha (soil application at 12 days old nursery and at 45 days old transplanted crop)	35	10	22
10	**Cauliflower (Pusa drum head/ snow white)**	**IPM (Diamond back moth)**	**Noveluran 10% EC @ 500 ml/ha (foliar spray after 5% insect incidence)**	**Noveluran 10% EC @ 500 ml/ha (foliar spray after 5% insect incidence)**	40	20	35

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

b. Details of FLDs implemented during **2019** (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Maize	Varietal demonstration	High yielding variety	Kharif 2018-19	2.0	2.0	1	9	10	-
2	Wheat	Weed control	Chemical herbicide	Rabi 2018-19	6.0	6.0	1	14	15	
3	Lentil	Varietal demonstration	PL-08	Rabi 2018-19	10.0	10.0	12	47	59	
4	Green Gram	Varietal demonstrati	IPM-02-03	Zaid 2019	10.0	10.0	11	25	36	

		on								
5	Mixed vegetable pickle.	Storage loss minimization techniques.	Demonstration of different natural and chemical preservative in pickle making	Rabi -18-19	-	-	-	20	20	
6	Mango	Storage loss minimization techniques	Demonstration of different natural preservatives in ripe mango processing	Kharif 2019				10	10	
7										
8	**Paddy (Pusa 1121/ 1509)**	IDM (Bacterial leaf blight)	Copper oxychloride @ 1250 gm/ha + Bacterinashak @ 200 gm/ha	Kharif 2019	4.0	4.0	2	8	10	
9	**(Pusa 1121/ 1509)**	IDM (Root knot nematode)	Carbofuran # G @ 33 Kg/ha (soil application at 12 days old nursery and at 45 days old transplanted crop)	Kharif 2019	4.0	4.0	2	8	10	
10	**Cauliflower (Pusa drum head/ snow white)**	**IPM (Diamond back moth)**	**Noveluran 10% EC @ 500 ml/ha (foliar spray after 5% insect incidence)**	Rabi -18-19	4.0	4.0	2	8	10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Maize	Kharif 2018-19	Irrigated	Sandy Loam	L	M	M	Wheat	31.05.18 to 23-05-2018	28-09-2018 to 10-10-2018		
Wheat	Rabi 2018-19	Irrigated	Sandy Loam	M	L	M	Paddy	11-11-18 to 22-11-18	19-04-19 to 25-04-19		
Lentil	Rabi 2018-19	Irrigated	Sandy Loam	M	L	M	Maize	1-11-18 to 25-11-18	20-3-19 to 05-04-19		
Green	Zaid	Irrigated	Sandy	M	L	M	Potato	16-03-	30-06-		

Gram	2018		Loam					18 to 02-04-18	18 to 10-07-18		
Paddy (Pusa 1121/ 1509)	Kharif 2019	Irrigated	Sandy Loam	M	L	M	Dhaich	30-6-2018 to 20-7-2018	10-10-2018 to 20-10-2017		
(Pusa 1121/ 1509)	Kharif 2019	Irrigated	Sandy Loam	M	L	M	Wheat	30-6-2018 to 20-7-2018	10-10-2018 to 20-10-2018		
Cauliflower (Pusa drum head/ snow white)	Rabi-18-19	Irrigated	Sandy Loam	M	L	M	Paddy	20.10.18 to 17-11-2018	10-2-19 to 25-2-19		

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1 Maize	Variety double is better than existing variety(gaurav,kanchan etc)
2 Wheat	Spray of clodinofob @160g/ha and metsulfuron @20g/ha is effective to control weeds
3 Lentil	Variety PL-08 is resistant to wilt disease.
4 Green Gram	IPM-02-03 having good biomass and more pod length
Mixed vegetable pickle	Scientifically used preservatives namely glacial acetic acid and sodium benzoate were effective
Mango	Use of sugar as preservative in ripe mango processing was effecting and the squash made can be stored for whole year
Paddy (Pusa 1121/ 1509)	**Pusa 1121/ 1509** having good productivity
(Pusa 1121/ 1509)	**Pusa 1121/ 1509** having good productivity

Farmers' reactions on specific technologies

S. No	Feed Back
1 Maize	Double variety has been appreciated by farmers in terms of productivity and low incidence of dieses
2 Wheat	Clodinofob + Metsulfuron is quite effective against Phalaris minor and other broad leaves weed.
3 Lentil	Farmers appreciated the performance in terms of productivity
4 Green Gram	Farmers appreciated the performance in terms of productivity
Mixed vegetable pickle	Scientifically used preservatives namely glacial acetic acid and sodium benzoate were effective
Mango	Use of sugar as preservative in ripe mango processing was effecting and the squash made can be kept for whole year
Paddy (Pusa 1121/ 1509)	Farmers appreciated the performance in terms of productivity
(Pusa 1121/ 1509)	Farmers appreciated the performance in terms of productivity

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	48	20-6-19, 22-08-19, 05-09-18, 03-12-19, 07-03-19	510	
2	Farmers Training	25	03-11-19,07-12-18, 14-02-19	500	
3	Media coverage	12			
4	Training for extension functionaries	08		105	

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Groundnut																		
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	IPM-02-03	IPM-02-03	36	10	7.4	4.1	5.8	4.7	23.40	19130	31900	12770	1.66:1	18750	25850	7100	1.37:1
Chickpea																		
Fieldpea																		
Lentil	Varietal Demonstration	PL-08	PL-08	59	10	8.0	4.2	6.3	5.4	16.67	19540	29685	7958	1.52:1	19540	26525	6985	1.36:1
Horsegram																		

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

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Cereals																			
Paddy (Pusa 1121/ 1509)	IDM (Bacterial leaf blight)	Copper oxychloride @ 1250 gm/ha + Bacterinashak @ 200 gm/ha	10	4.0	42.0	37.5	39.1	34.05	14.8	8.06	21.5	44600	105570	60970	2.4:1	46500	91935	45435	1.9:1
(Pusa 1121/ 1509)	IDM (Root knot nematode)	Carbofuran # G @ 33 Kg/ha (soil application at 12 days old nursery and at 45 days old transplanted crop)	10	4.0	41.6	34.5	37.4	28.16	32.81	6.92	23.0	45000	101088	56088	2.2:1	48000	76032	28.32	1.6:1
Waterlogged Situation																			
Coarse Rice																			
Scented Rice																			
Wheat	Weed control	Chemical herbicide	15	6.0	54.3	44.6	49.7	43.47	14.33	31 Weed count	75 Weed count	53514	121448	67924	2.27:1	52824	109985	57161	2.08:1
Wheat Timely sown																			
Wheat Late Sown																			
Mandua																			

Barley																			
Maize	Varietal demonstration	Use of variety Decalb - 7074	10	2	45.6	41.2	42.1	34.7	21.33			32750	74390	41640	2.27:1	31710	62160	30450	1.96:1
Amaranth																			
Millets																			
Jowar																			
Bajra																			
Barnyard millet																			
Finger millet																			
Vegetables																			
Bottlegourd																			
Bittergourd																			
Cowpea																			
Spongegourd																			
Petha																			
Tomato																			
Frenchbean																			
Capsicum																			

Chilli																			
Brinjal																			
Vegetable pea																			
Softgourd																			
Okra																			
Colocasia (Arvi)																			
Broccoli																			
Cucumber																			
Onion																			
Coriender																			
Lettuce																			
Cabbage																			
Cauliflower (Pusa drum head/ snow white)	**IPM (Diamond back moth)**	**Noveluran 10% EC @ 500 ml/ha (foliar spray after 5% insect incidence)**	10	**4.0**	**368.0**	**305.0**	**345.5**	**237.1**	**45.71**	**8.80**	**19.93**	**96500**	**207300**	**110800**	**2.1:1**	**103500**	**142260**	**38760**	**1.3:1**
Elephant fruit																			

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

Potato																		
Medicinal & aromatic plants																		
Mentholment																		
Kalmegh																		
Ashwagandha																		
Fodder Crops																		
Sorghum (F)																		
Cowpea (F)																		
Maize (F)																		
Lucern																		
Berseem																		
Oat (F)																		

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

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle																	
Buffalo																	
Buffalo Calf																	
Dairy																	
Mineral Mixture	Infertility problem	Management of Infertility through Mineral mixture.	27	27	8	6	33.33	-	-	12600	32900	20300	2.7:1	12400	24400	16000	1.8:1
Urea treated Wheat Straw	Milk Production	Impact of Urea treated wheat straw in milch animals	11	11	12	10	20.00	-	-	3613	9250	5637	2.67:1	3600	6515	2915	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 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.
Post harvest technology	Food preservation	10	Self life, adoptability	Till the end of squash/100%	Un availability of mango in off season

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total

FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)

FLD on Demonstration details on crop hybrids *(Details of Hybrid FLDs implemented during* **2019***)*

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													
Vegetable crop													
Fruit crop													
Other (specify)													

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

I. 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										
Resource Conservation Technologies	01	16	0	16	04	0	04	20	0	20
Cropping Systems										
Crop Diversification	01	15	0	15	05	0	05	20	0	20
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (Vermi Compost)	01	14	0	14	06	0	06	20	0	20
Total	**03**	**45**	**0**	**45**	**15**	**0**	**15**	**60**	**0**	**60**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
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)										
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)										
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	34	0	34	06	0	06	40	0	40
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	2	30	0	30	10	0	10	40	0	40
Disease Management	1	16	0	16	04	0	04	20	0	20
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total	**05**	**80**	**0**	**80**	**20**	**0**	**20**	**100**	**0**	**100**
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										
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										
VII Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total										

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										
Others (pl specify)										
Total										
GRAND TOTAL	**8**	**125**	**0**	**125**	**35**	**0**	**35**	**160**	**0**	**160**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	**No. of courses**	**Participants**								
		Others			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
I Crop Production										
Weed Management	02	33	0	33	07	0	07	40	0	40
Resource Conservation Technologies										
Cropping Systems	01	17	0	17	03	0	03	20	0	20
Crop Diversification	01	17	0	17	03	0	03	20	0	20
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	03	40	0	40	20	0	20	60	0	60
Soil & water conservatioin										
Integrated nutrient management	01	16	0	16	04	0	04	20	0	20
Production of organic inputs	01	15	0	15	05	0	05	20	0	20

Others (pl specify)										
Total	**09**	**138**	**0**	**138**	**42**	**0**	**42**	**180**	**0**	**180**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
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)										
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)										
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	04	68	0	68	12	0	12	80	0	80
Poultry Management	01	16	0	16	04	0	04	20	0	20

Piggery Management										
Rabbit Management										
Animal Nutrition Management	04	62	0	62	18	0	18	80	0	80
Disease Management	02	32	0	32	08	0	08	40	0	40
Feed & fodder technology	02	30	0	30	10	0	10	40	0	40
Production of quality animal products										
Others (pl specify)										
Total	**13**	**208**	**0**	**208**	**52**	**0**	**52**	**260**	**0**	**260**
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	**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	11	160	20	180	30	10	40	190	30	220
Integrated Disease Management	02	33	0	33	07	0	07	40	0	40
Bio-control of pests and diseases	02	33	0	33	07	0	07	40	0	40
Production of bio control agents and bio pesticides	01	16	0	16	04	0	04	20	0	20
Others (pl specify)										
Total	**16**	**242**	**20**	**262**	**48**	**10**	**58**	**290**	**30**	**320**
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										
Others (pl specify)										
Total										
GRAND TOTAL	**45**	**588**	**151**	**739**	**142**	**19**	**161**	**730**	**170**	**900**

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	02	33	0	33	07	0	07	40	0	40
Resource Conservation Technologies	01	16	0	16	04	0	04	20	0	20
Cropping Systems	01	17	0	17	03	0	03	20	0	20
Crop Diversification	02	32	0	32	08	0	08	40	0	40
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	03	40	0	40	20	0	20	60	0	60
Soil & water conservatioin										
Integrated nutrient management	01	16	0	16	04	0	04	20	0	20
Production of organic inputs	01	15	0	15	05	0	05	20	0	20
Others (pl specify)	01	14	0	14	06	0	06	20	0	20
Total	**12**	**183**	**0**	**183**	**57**	**0**	**57**	**240**	**0**	**240**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
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)										
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)										
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	6	102	0	102	18	0	18	120	0	120
Poultry Management	01	16	0	16	04	0	04	20	0	20
Piggery Management										
Rabbit Management										
Animal Nutrition Management	6	92	0	92	28	0	28	120	0	120
Disease Management	3	48	0	48	12	0	12	60	0	60
Feed & fodder technology	02	30	0	30	10	0	10	40	0	40
Production of quality animal products										
Others (pl specify)										
Total	**18**	**288**	**0**	**288**	**72**	**0**	**72**	**360**	**0**	**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					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	**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	11	160	20	180	30	10	40	190	30	220
Integrated Pest Management	02	33	0	33	07	0	07	40	0	40
Integrated Disease Management	02	33	0	33	07	0	07	40	0	40
Bio-control of pests and diseases	01	16	0	16	04	0	04	20	0	20
Production of bio control agents and bio pesticides										
Others (pl specify)	**16**	**242**	**20**	**262**	**48**	**10**	**58**	**290**	**30**	**320**
Total										
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										
Others (pl specify)										
Total										
GRAND TOTAL	**53**	**713**	**151**	**864**	**177**	**19**	**196**	**890**	**170**	**1060**

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										
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)										
TOTAL										

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	02	22	0	22	08	0	08	30	0	30
Production of organic inputs	01	09	0	09	06	0	06	15	0	15
Planting material production										
Vermi-culture										
Mushroom Production	01	09	0	09	06	0	06	15	0	15
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	02	22	0	22	08	0	08	30	0	30
Small scale processing	01	09	0	09	06	0	06	15	0	15
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	01	09	0	09	06	0	06	15	0	15
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	01	13	0	13	02	0	02	15	0	15
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**09**	**93**	**0**	**93**	**42**	**0**	**42**	**135**	**0**	**135**

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										
Seed production	02	22	0	22	08	0	08	30	0	30
Production of organic inputs	01	09	0	09	06	0	06	15	0	15
Planting material production										
Vermi-culture										
Mushroom Production	01	09	0	09	06	0	06	15	0	15
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and										

implements										
Value addition	02	22	0	22	08	0	08	30	0	30
Small scale processing	01	09	0	09	06	0	06	15	0	15
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	01	09	0	09	06	0	06	15	0	15
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	01	13	0	13	02	0	02	15	0	15
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**09**	**93**	**0**	**93**	**42**	**0**	**42**	**135**	**0**	**135**

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

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	01	07	0	07	03	0	03	10	0	10
Integrated Pest Management	02	22	0	22	08	0	08	30	0	30
Integrated Nutrient management	01	10	0	10	0	0	0	10	0	10
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	02	22	0	22	08	0	08	30	0	30
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										

Women and Child care	02	22	0	22	08	0	08	30	0	30
Low cost and nutrient efficient diet designing	01	18	0	18	02	0	02	20	0	20
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	02	22	0	22	08	0	08	30	0	30
Livestock feed and fodder production	01	18	0	18	02	0	02	20	0	20
Household food security										
Any other (Organic Farming)	02	22	0	22	08	0	08	30	0	30
TOTAL	**14**	**163**	**0**	**163**	**47**	**0**	**47**	**210**	**0**	**210**

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	01	07	0	07	03	0	03	10	0	10
Integrated Pest Management	02	22	0	22	08	0	08	30	0	30
Integrated Nutrient management	01	10	0	10	0	0	0	10	0	10
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	02	22	0	22	08	0	08	30	0	30
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care	02	22	0	22	08	0	08	30	0	30
Low cost and nutrient efficient diet designing	01	18	0	18	02	0	02	20	0	20
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	02	22	0	22	08	0	08	30	0	30
Livestock feed and fodder production	01	18	0	18	02	0	02	20	0	20
Household food security										
Any other (pl.specify)	02	22	0	22	08	0	08	30	0	30
TOTAL	**14**	**163**	**0**	**163**	**47**	**0**	**47**	**210**	**0**	**210**

Table. Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	**01**	**39**	**11**	**39**	**0**	**0**	**0**	**39**	**11**	**39**
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	**01**	**35**	**05**	**40**	**08**	**02**	**10**	**43**	**07**	**50**
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management	**02**	**70**	**10**	**80**	**16**	**04**	**20**	**90**	**10**	**100**

Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total										
Home Science										
Household nutritional security	**01**	**39**	**11**	**39**	**0**	**0**	**0**	**39**	**11**	**39**
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	**05**	**183**	**36**	**219**	**24**	**06**	**30**	**207**	**42**	**249**

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	330	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	**870**	**12246**	**485**	**12731**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	10
Extension Literature	12
News paper coverage	10
Popular articles	35
Radio Talks	25
TV Talks	
Animal health amps (Number of animals treated)	
Others (pl. specify)	35
Total	**125**

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

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies	1	126	All crop and animals
	Lectures organised	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 (No.)	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
Cereals	Wheat	DBW-725		451.50	925780	
	Paddy	PB-1509	Basmati	221.60	709120	
Oilseeds						
Pulses	Dhaicha	PD-1	-	1.95	9000	
	Pegeon Pea	Pant 2001		14.70	58800	
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						

Others						
Total				**689.75**	**1702700**	

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						
Fruits						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
Total						

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				
Water				
Plant				
Manure				
Others (pl.specify)				
Total				

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
Bulandshahr	01, 28-02-2019

IX. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution
Fasal Avshesh Prabandhan	500

X. PUBLICATIONS

Category	Number
Research Paper	05
Technical bulletins	02
Technical reports	42
Others (pl. specify)	

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

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

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

Introduction of alternate crops/varieties

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

Major area coverage under alternate crops/varieties

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

Farmers-scientists interaction on livestock management

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

Animal health camps organised

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

Seed distribution in drought hit states

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

Large scale adoption of resource conservation technologies

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

Awareness campaign

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

XIII. DETAILS ON HRD ACTIVITIES

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

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 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)
2014	0.5	105.0	17.0	9000.00	1.53	0.51	1.02
2015	2.0	430.0	77.4	9000.00	6.97	2.25	4.72
2016	3.0	655.0	121.2	7000.00	8.48	4.10	4.38
2017	3.6	760.0	140.6	8000.00	11.25	5.20	6.05
2018	3.8	810.0	150.5	8000.00	12.04	5.50	6.54
2019	4.10	860.0	165.5	8000.00	12.50	5.60	6.74

Area Under turmeric was 2.5 ha. In 2014

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 ra MNNNNMte: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
2013	31100	51 %	34 %	15 %
2014	32200	42 %	38 %	20 %
2015	34600	32 %	45 %	23 %
2016	39500	27%	48%	25%
2017	42700	23%	50%	27%
2018	50500	17%	54%	29%
2019	52000	18%	56%	31%

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

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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									
06	Others pl. specify									

D.2 . Publications (Print & Electronic media)

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

E. Technology Products provided

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

F. Technology services provided

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

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION

States covered:
Number of Directorates of Extension:

A. Details on Directors of Extension

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

B. Workshops / meetings organized

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

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

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

D. Overseeing of KVKs activities

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

Action Photograph