

## PROFORMA FOR PREPARATION OF ANNUAL REPORT (April-2018-March-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	40	800	00	800
Rural youths	06	60	00	60
Extension functionaries	13	130	00	130
Sponsored Training	15	1554	00	1554
Vocational Training	07	150	00	150
<b>Total</b>	<b>81</b>	<b>2694</b>	<b>00</b>	<b>2694</b>

#### 2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds			
Pulses			
Cereals	242	94.4	-
Vegetables	10	2	-
Other crops			
Hybrid crops			
<b>Total</b>	<b>252</b>	<b>96.4</b>	
Livestock & Fisheries			
Other enterprises			
<b>Total</b>			
<b>Grand Total</b>	<b>252</b>	<b>96.4</b>	<b>-</b>

#### 3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
<b>Technology Assessed</b>			
Crops	2	4	8
Livestock			
Various enterprises			
<b>Total</b>	<b>2</b>	<b>4</b>	<b>8</b>
<b>Technology Refined</b>			
Crops			
Livestock			
Various enterprises			
<b>Total</b>			
<b>Grand Total</b>	<b>2</b>	<b>4</b>	<b>8</b>

#### 4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	1364	9896
Other extension activities	47	-
<b>Total</b>	<b>1411</b>	<b>9896</b>

### 5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages					Total
		Crop	Livestock	Weather	Marketing	Awareness	
	Text only	42					42
	Voice only	1220		26		20	1286
	Voice & Text both						
	<b>Total Messages</b>	<b>1262</b>		<b>26</b>		<b>20</b>	<b>1328</b>
	<b>Total farmers Benefitted</b>	<b>1262</b>		<b>26</b>		<b>20</b>	<b>1328</b>

### 6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	225	399375.00
Planting material (No.)	6150	1680.00
Bio-Products (kg)	-	-
Livestock Production (No.)	-	-
Fishery production (No.)	-	-

### 7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	-	
Water	-	
Plant	-	
<b>Total</b>	<b>-</b>	

### 8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	02
2	Conferences	02
3	Meetings	18
4	Trainings for KVK officials	04
5	Visits of KVK officials	-
6	Book published	-
7	Training Manual	-
8	Book chapters	05
9	Research papers	04
10	Lead papers	-
11	Seminar papers	-
12	Extension folder	-
13	Proceedings	01
14	Award & recognition	01
15	On going research projects	-

## DETAIL REPORT OF APR-2018-19

### 1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
KRISHI VIGYAN KENDRA, <b>SHAMLI, DISTT.- SHAMLI (U.P.)</b>	9411448594	-	kvkshamli@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
<b>DIRECTORATE OF EXTENSION</b> S.V.P.Univ. of Agril. & Tech., Meerut.	0121-2888511	0121-2888505 2888540	deesvpuat2014@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.Satish Kumar			kvkshamli@gmail.com

#### 1.4. Year of sanction: 2018

#### 1.5. Staff Position (as on 30<sup>th</sup> March, 2019)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	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	Dr.satish kumar	Head	Extension	37400-67000	10000	27-12-96	<b>Permanent</b>	OBC		56	
2	Subject Matter Specialist	Dr.S.P. Singh	SMS	Agronomy	15600-39100	8000	11-12-03	<b>Permanent</b>	OBC		56	
3	Subject Matter Specialist	Dr. Onkar Singh	SMS	Horticulture	15600-39100	8000	17-12-03	<b>Permanent</b>	SC		50	
4	Subject Matter Specialist	Dr. Vikas Kumar	SMS	Plant Breeding	15600-39100	7000	26-12-08	<b>Permanent</b>	OBC		38	
5	Subject Matter Specialist	-										
6	Subject Matter Specialist	-										
7	Subject Matter Specialist	-										
8	Programme Assistant	-										
9	Computer Programmer	-										
10	Farm Manager	-										
11	Accountant / Superintendent	-										
12	Stenographer	-										
13	Driver	Sh. Harish Kant	Driver	--	5200-20200	2800	1-1-97	<b>Permanent</b>	GEN		45	
14	Driver	-										
15	Supporting staff	ShSatish	Messenger	--	4440-7440	2400	1-1-97	<b>Permanent</b>	GEN		50	
16	Supporting staff	Neelam	Peon	--	4440-7440	2400	18-3-17	<b>Permanent</b>	GEN		40	

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1.	Under Buildings	Nil
2.	Under Demonstration Units	Nil
3.	Under Crops	6.100
4.	Orchard/Agro-forestry	Nil
5.	Others (specify)	2.447

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	Nil						
2.	Farmers Hostel	Nil						
3.	Staff Quarters (6)	Nil						
4.	Demonstration Units (2)	Nil						
5.	Fencing	ICAR	31.03.08	1000 mtr	19.21 lac	Incomplete		
6.	Rain Water harvesting system	Nil						
7.	Threshing floor	ICAR	31.03.08	300 sqm	2.33 lac			
8.	Farm godown	nil						

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Nil				

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Nil			

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

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	28.02.19	Dr.Gopal Singh	Targets regarding Trg., FLD, OFT, Seed and planting material and other extension activity should be fixed as per ICAR norms.	All the targets are fixed as per ICAR norms.
2.		Sh. Vikas Kumar, PPO	In OFT on IDM and IPM, only recommended pesticides/ fungicides need to be incorporated.	Recommended & recently released pesticides were given to farmers in OFT and

				demonstrations.
3		Dr.R.K.Naresh	FLD in oilseed and pulses and other than oilseed and pulses need to categorize separately in action plan.	Subject wise FLDs are given in annual action plan.
4		Smt.Neeraja Singh, BSA	Farm women empowerment should be focused in trg. program of home science.	Target will be achieved after joining of home Scientist.
5		Dr.D.K.Singh,	Trg. should be conducted on dairy management and vocational trg. program.	SMS (Animal Science) is not available at centre.
6		Dr.S.Kumar, DDag.	Linkage with ATMA, RKVY, NHM and other agencies should be more.	Linkage with ATMA, RKVY, NHM and other agencies in all programme
7		Dr.S.Kumar, DDag.	More emphases should be given on Organic farming.	KVK have already conducted 200 demonstration on organic farming by the use of west decomposer.
8		Dr.satyaPrakesh	Suggested intercropping with sugarcane of veg. and flower cultivation.	Suggestions has been incorporated in action plan to conducted FLD in coming season
9		Sh.Rajnesh Singh, Prograssive Farmer's	Training Programme should be organized before sugarcane planting	Organized Gosthi with collebration of sugar mill before sugarcane planting

## **2. DETAILS OF DISTRICT (2018-19)**

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

S. No	Farming system/enterprise
1	➤ S. Cane based + A.H+ Horticulture
2	➤ S. Cane based + A.H+ Horticulture
3	➤ S. Cane based + A.H+ Vegetable + Floriculture
4	➤ S. Cane based + A.H + Horticulture

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

S. No	Agro-climatic Zone	Characteristics
1.	AES-1	More than 85% Area, Sandy Loam Soil
2.	AES-2	More than 95% irrigated, Loam
3.	AES-3	More than 95%, Sandy Loam
4.	AES-4	Low Water table area, Loam & Sandy Loam soil

### 2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
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		Soil particle Diameter (mm)	Water holding capacity	
1.	Sandy	2 - 0.2 mm,	Poor	
2.	Sandy loam	0.2 - 0.02 mm,	Medium	
3.	Loam	0.02 - 0.002 mm	Average	
4.	Clay loam	>than 0.002 mm	Good	
		<b>Total</b>		

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

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1.	Sugarcane	61358	50880507.92	829.24
2.	Wheat	49142	2086077.90	42.45
3.	Paddy	8200	348500	42.50
4.	Urd	350	2905	8.30
5.	Mung	-		
6.	Lentil	89	614.10	6.90
7.	Gram	60	651.00	10.85
8.	Pea	170	2340.9	13.77
9.	Pigeon Pea	-		
10	Mustard	951	9376.86	9.86
11	Sunflower	-		
12	Potato	96	22080	230.00
13	Cotton	-		
14	Maize	-		
15	Arhar	-		

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
-				

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

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	<b>86114</b>		<b>6.310</b>
<i>Indigenous</i>	<b>100</b>		
<b>Buffalo</b>	<b>304719</b>		<b>5.90</b>
<b>Sheep</b>			
<i>Crossbred</i>	<b>3882</b>		-
<i>Indigenous</i>	-		-
<b>Goats</b>	<b>28049</b>		<b>0.780</b>
<b>Pigs</b>			
<i>Crossbred</i>	<b>10171</b>		<b>40-50 kg per pig</b>
<i>Indigenous</i>	-		-
<b>Rabbits</b>	-		
<b>Poultry</b>			
Hens	350000		90%
<i>Desi</i>	-		
<i>Improved</i>	-		
Ducks	-		
Turkey and others	-		

Category	Area	Production	Productivity
Fish			

Marine			
Inland			
Prawn			
Scampi			
Shrimp			

## 2.7 Details of Operational area / Villages (2018-19)

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Shamli	Kairana	Titoli	Sugarcane	Low yield due to imbalance fertilizer	Balance use of fertilizer
				Wheat	Low yield due to high infestation of weeds, late sowing	Weed management
				Mustard	Poor yield due to aphid infestation	Insect mgt.
				Mango	Poor yield due to imbalance use of fertilizer	Fertilizer management
				Guava	Poor quality yield due to fruit fly infestation	Fruit fly management
				Cauliflower	Poor yield due to use of local variety	Introduction of HYV
				Brinjal	Poor quality of fruits due to foot & shoot borer	IPM
2	Shamli	Shamli	Jalalpur	Sugarcane	High infestation of insect & disease	Insect & disease mgt. through IPM
				Wheat	Low yield due to high infestation of weeds, late sowing	Weed management
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
3	Shamli	Thanabhanwan	Harad fatehapur	Sugarcane	Poor yield due to less organic matter	Promoting of organic manure
				Wheat	Low yield due to imbalance use of fertilizer	IPNM in Wheat
				Merigold	Use of local seed High infestation of disease	Introduction of HYV Disease mgt.
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
				Barseem	Low yield due to local variety	Introduction of HYV
4	kairana	kairana	Aryapuri	Sugarcane	High infestation of insect & disease	Insect & disease mgt. through IPM
				Wheat	Low yield due to high infestation of weeds, late sowing	Weed management

				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
				Barseem	Low fodder due to use of local variety	HYV
5	Shamli	Shamli	Lishad	Sugarcane	High infestation of insect & disease	Insect & disease mgt. through IPM
				Wheat	Low yield due to high infestation of weeds, late sowing	Weed management
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
				Barseem	Low fodder due to use of local variety	HYV

## 2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Sugarcane	IPNM, Weed management, IPM, IDM, quality Seed production
Wheat	INM, Weed management, IDM, Seed production, Foliar application of Micronutrients
Rice	INM, Weed management, Hybrid rice, IPM, IDM, Quality Seed.
Vegetables	IDM, IPM, Quality Seed.
Orchard	INM,IPM, IDM, Weed management traing and pruning& unavailability of quality planting material
Oilseeds & Pulses crop	Sulphur, Zinc application & IPM
Animals	Endo & Ecto parasite control, Improving fertility& Imbalance feed.

1. Maintenance of soil productivity through soil test based nutrient management.
2. Promoting intercropping modules with Sugarcane
3. Popularizing Bio- pesticides for management of insect pests
4. Promoting quality floriculture as diversification enterprise for extra income generation.
5. Promoting quality vegetable nursery
6. Mineral mixture supplementation among animals for improving fertility
7. Promoting Group Approach of Extension through Women SHGs and Vallabh Krishak Clubs





Mono Cropping System(Kharif-Rabi-Zaid) -Livestock etc.							
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**This Discussion will be incorporate in our next year action plan.**

**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.							

**This Discussion will be incorporate in our next year action plan.**

**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.							

**This Discussion will be incorporate in our next year action plan.**

**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.							

**This Discussion will be incorporate in our next year action plan.**

**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.							
<b>This Discussion will be incorporate in our next year action plan.</b>							

**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.							
<b>This Discussion will be incorporate in our next year action plan.</b>							

**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.							
<b>This Discussion will be incorporate in our next year action plan.</b>							

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

Note- Same format may be used for OFT.



### 3. TECHNICAL ACHIEVEMENTS

#### 3.A. Details of target and achievements of mandatory activities by KVK during 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
6	2	8	8	50	96.4	200	252

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	40	40	800	800	15	15	1554	1554
Rural youth	06	06	60	60	07	07	150	150
Extn. Functionaries	13	13	130	130				
Total	59	59	990	990	22	22	1604	1604

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	225	Supply to state seed production agency	5000	6150	230

### I.A TECHNOLOGY ASSESSMENT

#### Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Nutrient Management				
Varietal Evaluation	Wheat	Varietal evaluation of late sown high yielding variety	2	4
	Okra	Varietal evaluation of high yielding variety	2	4
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				

Post Harvest Technology / Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)				
<b>Total</b>				

#### 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	-			
Production and Management	-			
Others (Pl. specify)	-			
<b>Total</b>				

#### Summary of technologies assessed under various **enterprises** by KVKs

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

## I.B. TECHNOLOGY REFINEMENT

#### Summary of technologies refined under various **CROPS** by KVKs

Thematic areas	Crop	Name of the technology refined	No. of trials	No. of farmers
Integrated Nutrient Management				
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)				
<b>Total</b>				

### 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)	-			
<b>Total</b>				

### Summary of technologies refined under various **enterprises** by KVKs

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

## I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

### VARIETAL EVALUATION

**Problem definition :** Low productivity of Wheat.

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

Table 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 <sub>1</sub> = Farmers Practice (PBW-373)	02	305	81	39.50		1.94:1
T <sub>2</sub> = DBW-71		345	76	46.70	18.22	2.23:1

**Problem definition:** low productivity in okra.

**Technology Assessed:** To find out the production potential through improved varieties of Okra..

Table Performance of improved varieties of Okra.

Technology Option	No.of trials	Cost of production/Rs/ha	Market rate (Rs /q)	Yield (qt/ha)	Increase in Yield (%)	B:C Ratio
T <sub>1</sub> = Farmers Practice (Nitya)	02	50150.00	111750.00	74.5	-	2.22:1
T <sub>2</sub> = Kashi Kranti		53130.00	137410.00	91.6	22.95	2.58:1

@rs.15/kg

## II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2016-17 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
Nil							

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

b. Details of FLDs implemented during **2018-19** (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.	Paddy P.B.-1	VE	Pusa1509	Kharif 2018	2.4	2.4	02	10	12	-
2.	Paddy P.B.-1	WM	Hydrogel	Kharif 2018	4	4	-	10	10	-
3.	Wheat PBW-550	VE	HD-3086	Rabi 2018-19	2	2	1	4	5	-
4.	Wheat PBW-373	VE	HD-3059	Rabi 2018-19	6	6	4	11	15	-
5.	Wheat PBW-550	RCT	West decomposer	Rabi 2018-19	80	80	8	192	200	-
6.	Cauliflower Early kawari	VE	GS-75	Rabi 2018-19	1	1	1	4	5	-
7.	Onion N-53	VE	Agrifound light red	Rabi 2018-19	1	1	1	4	5	-

Details of farming situation

Crop	Season	Farming situation (R/E/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	Irr.	Sandy Loam	L	M	M	Jowar	12.07.18	15.10.18	-	-
Paddy	Kharif 2018	Irr.	Sandy Loam	L	M	M	Jowar	10.07.	18.10.	-	-

								18	18		
Wheat	Rabi 2018-19	Irr.	Sandy Loam	L	M	M	Paddy	15.11.18	22.04.19	-	-
Wheat	Rabi 2018-19	Irr.	Sandy Loam	L	M	M	S.cane	15.12.18	28.04.19	-	-
Wheat	Rabi 2018-19	Irr.	Sandy Loam	L	M	M	s.cane	25.11.18	25.04.19	-	-
Cauliflower	Rabi 2018-19	Irr.	Sandy Loam	L	M	M	Jowar	25.09.18	21.01.19	-	-
Onion	Rabi 2018-19	Irr.	Sandy Loam	L	M	M	carrot	02.01.19	25.05.19	-	-

#### Technical Feedback on the demonstrated technologies

S. No	Feed Back
1.Paddy	Short duration and High yield variety Pusa 1509 is better than local variety.
2.Paddy	50% Saving of irrigation water
3.Wheat	Newly release High yield and disease resistance variety is better than local variety.
4.Wheat	Newly release High yield and disease resistance variety is better than local variety.
5.Wheat	Saving of fertilizer
6.Cauliflower	Newly release High yield variety is better than local variety.
7.Onion	Newly release High yield variety is better than local variety.

#### Farmers' reactions on specific technologies

S. No	Feed Back
1.Paddy	Use of high yield and disease resistance variety appreciated by farmers in terms of productivity and net income.
2.Paddy	less infestation of Weed and higher yield
3.Wheat	Use of high yield and disease resistance variety appreciated by farmers in terms of productivity and net income.
4.Wheat	Use of high yield and disease resistance variety appreciated by farmers in terms of productivity and net income.
5.Wheat	Improvement in soil condition and improve in grain quality.
6.Cauliflower	Use of high yield variety appreciated by farmers in terms of productivity and net income.
7.Onion	Use of high yield variety appreciated by farmers in terms of productivity and net income.

#### Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	14	Sep.2018, Feb.2019	456	-
2	Farmers Training	07	June 2018, Nov.2019	152	-
3	Media coverage	06	-	-	-
4	Training for extension functionaries	08	June 2018, Nov.2019	184	-

**Performance of Frontline demonstrations**

**Frontline demonstrations on oilseed crops**

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











<b>Sheep &amp; Goat</b>																		
<b>Vaccination</b>																		

\* 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 Demonstration details on crop hybrids** *(Details of Hybrid FLDs implemented during 2018-19)*

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







Others (pl specify)	2	38	38	2	2	40	40
<b>Total</b>	<b>30</b>	<b>528</b>	<b>528</b>	<b>72</b>	<b>72</b>	<b>600</b>	<b>600</b>
<b>II Horticulture</b>							
<b>a) Vegetable Crops</b>							
Production of low value and high valume crops							
Off-season vegetables	1	16	16	4	4	20	20
Nursery raising							
Exotic vegetables							
Export potential vegetables							
Grading and standardization							
Protective cultivation	3	58	58	2	2	60	60
Others (pl specify)							
<b>Total (a)</b>	<b>4</b>	<b>74</b>	<b>74</b>	<b>6</b>	<b>6</b>	<b>80</b>	<b>80</b>
<b>b) Fruits</b>							
Training and Pruning	2	32	32	8	8	40	40
Layout and Management of Orchards							
Cultivation of Fruit	2	38	38	2	2	40	40
Management of young plants/orchards							
Rejuvenation of old orchards							
Export potential fruits							
Micro irrigation systems of orchards	1	20	20	0	0	20	20
Plant propagation techniques							
Others (pl specify)							
<b>Total (b)</b>	<b>5</b>	<b>90</b>	<b>90</b>	<b>10</b>	<b>10</b>	<b>100</b>	<b>100</b>
<b>c) Ornamental Plants</b>							
Nursery Management							
Management of potted plants							
Export potential of ornamental plants							
Propagation techniques of Ornamental Plants							
Others (pl specify)							
<b>Total (c)</b>							
<b>d) Plantation crops</b>							
Production and Management technology							
Processing and value addition							
Others (pl specify)							
<b>Total (d)</b>							
<b>e) Tuber crops</b>							
Production and Management technology							
Processing and value addition							
Others (pl specify)							
<b>Total (e)</b>							
<b>f) Spices</b>							
Production and Management technology							
Processing and value addition							
Others (pl specify)							
<b>Total (f)</b>							
<b>g) Medicinal and Aromatic Plants</b>							
Nursery management							
Production and management technology							
Post harvest technology and value addition							
Others (pl specify)							
<b>Total (g)</b>							
<b>GT (a-g)</b>	<b>9</b>	<b>164</b>	<b>164</b>	<b>16</b>	<b>16</b>	<b>180</b>	<b>180</b>
<b>III Soil Health and Fertility Management</b>							
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)							
<b>Total</b>							
<b>IV Livestock Production and Management</b>							
Dairy Management							
Poultry Management							



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	1	13	13	7	7	20			20
Others (pl specify)	1	13	13	7	7	20			20
<b>Total</b>									
<b>X Capacity Building and Group Dynamics</b>									
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)									
<b>Total</b>									
<b>XI Agro-forestry</b>									
Production technologies									
Nursery management									
Integrated Farming Systems									
Others (pl specify)									
<b>Total</b>									
<b>GRAND TOTAL</b>	40	705	705	95	95	800			800

#### 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
<b>I Crop Production</b>										
Weed Management	3	45	45	15	15	60			60	
Resource Conservation Technologies	3	48	48	12	12	60			60	
Cropping Systems										
Crop Diversification	1	18	18	2	2	20			20	
Integrated Farming										
Micro Irrigation/irrigation	4	68	68	12	12	80			80	
Seed production	15	274	274	26	26	300			300	
Nursery management	1	20	20			20			20	
Integrated Crop Management	1	17	17	3	3	20			20	
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)	2	38	38	2	2	40			40	
<b>Total</b>	<b>30</b>	<b>528</b>	<b>528</b>	<b>72</b>	<b>72</b>	<b>600</b>			<b>600</b>	
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high valume crops										
Off-season vegetables	1	16	16	4	4	20			20	
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	3	58	58	2	2	60			60	
Others (pl specify)										
<b>Total (a)</b>	<b>4</b>	<b>74</b>	<b>74</b>	<b>6</b>	<b>6</b>	<b>80</b>			<b>80</b>	
<b>b) Fruits</b>										
Training and Pruning	2	32	32	8	8	40			40	
Layout and Management of Orchards										
Cultivation of Fruit	2	38	38	2	2	40			40	
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards	1	20	20	0	0	20			20	













Fisheries Nutrition									
Fisheries Management									
Others (pl. specify)									
<b>Total</b>									
<b>Home Science</b>									
Household nutritional security									
Economic empowerment of women									
Drudgery reduction of women									
Others (pl. specify)									
<b>Total</b>									
<b>Agricultural Extension</b>									
Capacity Building and Group Dynamics									
Others (pl. specify)									
<b>Total</b>									
<b>GRAND TOTAL</b>	<b>15</b>	<b>1380</b>		<b>1380</b>	<b>174</b>		<b>174</b>	<b>1554</b>	<b>1554</b>

### 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
<b>Crop production and management</b>										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming	1	16		16	4		4	20		20
Others (pl. specify)	1	19		19	11		11	30		30
<b>Total</b>	<b>2</b>	<b>35</b>		<b>35</b>	<b>15</b>		<b>15</b>	<b>50</b>		<b>50</b>
<b>Post harvest technology and value addition</b>										
Value addition										
Others (pl. specify)										
<b>Total</b>										
<b>Livestock and fisheries</b>										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
<b>Total</b>										
<b>Income generation activities</b>										
Vermicomposting										
Production of bio-agents, bio-pesticides, bio-fertilizers etc.	1	11		11	9		9	20		20
Repair and maintenance of farm machinery and implements										
Rural Crafts										
Seed production	1	18		18	2		2	20		20
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dyeing etc.										
Agril. para-workers, para-vet training										
Others (pl. specify)	3	34		34	26		26	60		60
<b>Total</b>	<b>5</b>	<b>63</b>		<b>63</b>	<b>37</b>		<b>37</b>	<b>100</b>		<b>100</b>
<b>Agricultural Extension</b>										
Capacity building and group dynamics										
Others (pl. specify)										
<b>Total</b>										
<b>Grand Total</b>	<b>7</b>	<b>98</b>		<b>98</b>	<b>52</b>		<b>52</b>	<b>150</b>		<b>150</b>

### IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	1220	1220		1220
Diagnostic visits	15	90		90
Field Day	12	276		276
Group discussions	10	120		120
Kisan Ghosthi	12	2652		2652
Film Show	5	112		112
Self -help groups	0	0		0
Kisan Mela	10	2365		2365
Exhibition	10	2365		2365
Scientists' visit to farmers field	62	410		410
Plant/animal health camps	0	0		0
Farm Science Club	0	0		0
Ex-trainees Sammelan	0	0		0
Farmers' seminar/workshop	0	0		0
Method Demonstrations	0	0		0
Celebration of important days	3	78		78
Special day celebration	2	58		58
Exposure visits	2	100		100
Others (pl. specify)	1	50		50
<b>Total</b>	<b>1364</b>	<b>9896</b>		<b>9896</b>

#### Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	0
Extension Literature	1
News paper coverage	36
Popular articles	2
Radio Talks	2
TV Talks	6
Animal health camps (Number of animals treated)	0
Others (pl. specify)	0
<b>Total</b>	<b>47</b>

Name of KVK	Message Type	Type of Messages					Total
		Crop	Livestock	Weather	Marke-ting	Aware-ness	
	Text only						
	Voice only	1220				20	1240
	Voice & Text both						
	<b>Total Messages</b>	<b>1220</b>				<b>20</b>	<b>1240</b>
	<b>Total farmers Benefitted</b>	<b>1220</b>				<b>20</b>	<b>1240</b>



Others						
<b>Total</b>						

### 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	Brinjal	Pusa uttam		100		
	chilli	Pusa sadabahar		300		
	Tomato		Pusa hy.-08	200		
	onion	ALR		2300		
	Bottle gourd	Pusa navin		250		
Fruits						
Ornamental plants	Annual ornamental plant	Pusa Basanti		3000		
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
<b>Total</b>				<b>6150</b>		

**Production of Bio-Products**

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

**Table: Production of livestock materials**

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

## 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)				
<b>Total</b>				

## VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
KVK Shamli	First 28.02.2019

## IX. NEWSLETTER/MAGAZINE

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

## X. PUBLICATIONS

Category	Number
Research Paper	2
Technical bulletins	
Technical reports	4
Others (pl. specify)	4
Book chapter	4

## 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.)



<b>Total</b>												

### XIII. DETAILS ON HRD ACTIVITIES

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

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
<b>Total</b>				

#### 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
<b>Total</b>			

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

*Each Zone should propose a minimum of three case studies with good action photographs (with captions on the backside of the hard copy of the photos) on the following topics*

- Effective popularization on a larger scale of any one FLD technology and its role in transformation of district agriculture with respect to that particular crop or enterprise*
- Performance of the end results of any one technology assessed, its refinement if any and its impact in district agriculture with respect to that crop or enterprise*
- Effect of production and supply of seeds and planting material / animal breed / or bio-product and its impact on district agriculture with respect to that crop/ enterprise/ bio-product*

*The general format for preparing the above case studies are furnished below*

**Name of the KVK**

**TITLE**

**Introduction**

**KVK intervention**

**Output**

**Outcome**

**Impact**



**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	01
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**

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

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