

## FOR PREPARATION OF ANNUAL REPORT (Jan-2022-Dec-2022)

### 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	58	914	453	1367
Rural youths	06	60	30	90
Extension functionaries	06	55	0	55
Sponsored Training	1	-	51	51
Vocational Training				
<b>Total</b>	<b>71</b>	<b>1029</b>	<b>649</b>	<b>1563</b>

#### 2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	32	10	
Pulses	32	10	
Cereals	25	10	
Vegetables	10	0.4	
Other crops			
Hybrid crops			
<b>Total</b>	<b>99</b>	<b>30.8</b>	
Livestock & Fisheries	86	-	86
Other enterprises	30	-	21
<b>Total</b>	<b>116</b>	<b>-</b>	<b>107</b>
<b>Grand Total</b>	<b>215</b>	<b>30.4</b>	<b>107</b>

#### 3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
<b>Technology Assessed</b>			
Crops	06	29	29
Livestock	02	21	21
Various enterprises	02	10	10
<b>Total</b>	<b>08</b>	<b>50</b>	<b>50</b>
<b>Technology Refined</b>			
Crops			
Livestock			
Various enterprises			
<b>Total</b>			
<b>Grand Total</b>	<b>08</b>	<b>50</b>	<b>50</b>

#### 4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	592	8042
Other extension activities	76	-
<b>Total</b>	<b>668</b>	<b>8042</b>

### 5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
	Text only	65	75	125	28	166	85	544
	Voice only	10	38	250	15	62	32	404
	Voice & Text both	10	12	10	14	23	18	87
	<b>Total Messages</b>	<b>85</b>	<b>125</b>	<b>385</b>	<b>57</b>	<b>251</b>	<b>135</b>	<b>1038</b>
	<b>Total farmers Benefitted</b>	<b>642</b>	<b>475</b>	<b>1251</b>	<b>78</b>	<b>846</b>	<b>475</b>	<b>3767</b>

### 6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	452.9	1016000
Planting material (No.)	22000	2350
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>		

### 8. HRD and Publications

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

## 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 Laxmi Kant	05732-223103	9411215276	laxmikant@gmail.com

1.4. Year of sanction: 2008

1.5. Staff Position (as on 1<sup>st</sup> September, 2022)

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	Dr. Laxmi Kant	Head/Professor	Plant Protection	37400-67000	199600		Permanent	SC	9411215276	54	laxmikantkvk@gmail.com
2	Subject Matter Specialist	Dr Reshu Singh	SMS/ Asstt Prof.	Plant Protection	15600-39100	104100	23-06-2008	Permanent	SC	9412672253	43	<a href="mailto:reshu_258@rediffmail.com">reshu_258@rediffmail.com</a>
3	Subject Matter Specialist	Dr Vivek Raj	SMS/ Assit Prof.	Agronomy	15600-39100	104100	26-12-2008	Permanent	Other	9412890886	47	drrajvivek@gmail.com
4	Subject Matter Specialist	Smt KM. Tripathi	SMS/ Assit Prof.	Home Science	15600-39100	89900	26-12-2008	Permanent	other	9410675174	41	kirtitripathi.dixit@gmail.com
5	Subject Matter Specialist	Dr. Pallavi Chaudhary	SMS	Horticulture	15600-39100	56100	02-07-2022	On probation	SC	9458505049	34	pallavichaudharyhort@gmail.com
6	Subject Matter Specialist	Dr. Nadeem Shah	SMS	Animal Science	15600-39100	56100	16-08-2022	On probation	OBC	8950492825	34	drnadeem.ndri@gmail.com
7	Computer Programmer	Sh. Zayeem Khan	Prog. Assist (Computer)	Computer	9300-34400	56900	30-07-2007	Permanent	other	8126504311	41	zksvpu@yahoo.com
8	Farm Manager	Sh. Suraj Bhan	Farm manager	Agronomy	9300-34400	90300	26-12-2008	Permanent	OBC	9012146644	52	
9	Superintendent Cum Accountant	Sh. R.K Garg	Superintendent Cum Accountant		9300-34400	86100	17-01-1994	Permanent	other	9457034310	55	gargsvpuat@gmail.com
10	Driver	Sh. Vijendra Singh	Driver		9300-34400	45400	17-01-1994	Permanent	OBC	9897367070	55	
11	Supporting staff	Sh. Harish Kumar	Attendent		9300-34400	28400	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)	5.27

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	ICAR				2021		Likely to be completed
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
Bolero	2022			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.	19.11.22	1. Dr. Satendra Kumar, Joint Director Extension SVPUAT, Meerut	<ol style="list-style-type: none"> <li>1. Impact analysis should be done in Agronomical practices</li> <li>2. Include Geo-Tag Photograph in presentation.</li> <li>3. Farmers practices should be clearly mention in plant protection</li> <li>4. Mention the crops taken under intercropping demonstration.</li> <li>5. Season wise crop for training should be taken in horticulture</li> </ol>	The SAC took place on 19-11-2022 therefore all the given recommendation will be incorporated as per time.
2.		Dr. K.G. Yadav, Asso Prof, SVPUAT, Meerut	<ol style="list-style-type: none"> <li>1. No. of irrigations and weeding should be mentioned in the practices demonstrated.</li> <li>2. Heading should be clear and self explanatory in Agronomy presentation.</li> <li>3. In the OFTs of Agronomy instead of using of term production weed reduction should be given.</li> <li>4. Plant protection problem should be based on District level.</li> <li>5. Fruit fly traps should be used according to recommendations</li> <li>6. Instead of Carbendazim used latest fungicide for farmers awareness and demonstrate.</li> <li>7. Do not mentioned total income in nutritional garden.</li> </ol>	
3		Dr. Atul Chandra, Ex- Head KVK Bikaner	<ol style="list-style-type: none"> <li>1. Fodder demonstration should be taken in Animal Husbandry.</li> <li>2. Incorporate barely in the demonstration.</li> <li>3. Trips and powdery mildew is burring issues. The</li> </ol>	

			<p>programme should be introduced for its managements.</p> <ol style="list-style-type: none"> <li>4. Recommendations packages of practices should be introduced only.</li> <li>5. Field days should be incorporated in every demonstration in trial, photo should also be presented in report.</li> <li>6. Success story should be mentioned in by each scientists.</li> <li>7. Emphasis should be laid on publication. The best success story should be given in general and magazine.</li> <li>8. Anganbadi worker should be included in home science activities.</li> <li>9. Demonstration on okra should be introduced.</li> <li>10. Included brocklee in nutri garden</li> </ol>	
4		Dr. Gautam Tiwari, CVO, Bulandshahr	Programme of Animal Husbandry should be done along with the line department.	
5		Dr. D. K. Singh, Ex- Professor	Animal health camps should be done on priority basis	

Note : This yellow mark may be treated as an example

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

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## **2. DETAILS OF DISTRICT (2022)**

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 relative 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
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	Light gray to light brownish gray, sandy loam, average water holding capacity, neutral in

	recent alluvium	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 2022

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 ° C (Average)		Relative Humidity (%) (Average)	
		Maximum	Minimum	Maximum	Minimum
<b>January, 2022</b>	38.0 Avg. 1.52/day	17.58	8.33	100.0	73.4
<b>February, 2022</b>	42.5 Avg. 1.51/day	22.8	9.83	100.00	47.32
<b>March, 2022</b>	00	32.51	16.53	99.28	31.03
<b>April, 2022</b>	00	40.3	21.52	67.33	10.93
<b>May, 2022</b>	44.5 Avg. 1.43/day	38.22	25.57	86.61	32.38
<b>June, 2022</b>	53.5 Avg. 1.70/day	39.0	26.66	82.23	33.33
<b>July, 2022</b>	237.5 Avg. 7.6/day	35.03	27.34	100.00	61.45
<b>August, 2022</b>	58.5 Avg. 1.88/day	34.52	26.46	100.00	60.9
<b>September, 2022</b>	182 Avg. 6.06/day	34.66	24.81	98.23	60.93



<b>October, 2022</b>	154 Avg. 4.96/day	31.63	19.04	100	46.8
<b>November, 2022</b>	00 Avg. 00/day	28.52	13.89	100	32.5
<b>December, 2022</b>	00 Avg. 00/day	22.57	8.99	99.58	40.43

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

Category	Production	Productivity	
<b>Cattle</b>			
<i>Crossbred</i>	67852	8236 mt.	5.13
<i>Indigenous</i>	104142		
<b>Buffalo</b>	1225246	10562.6 mt	5.76
<b>Sheep</b>			
<i>Crossbred</i>	2446		
<i>Indigenous</i>	5839		
<b>Goats</b>	196731		
<b>Pigs</b>			
<i>Crossbred</i>	9124		
<i>Indigenous</i>	31435		
<b>Rabbits</b>	178		
<b>Poultry</b>			
Hens	182178		
<i>Desi</i>			
<i>Improved</i>			
Ducks			
Turkey and others			

Category	Area	Production	Productivity
Fish			
<i>Marine</i>			
<i>Inland</i>			
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, chawli. Devli, Jainpur. Kahira, Sehkar nagar, Naithla Hasnpur, Tajpur, Malagarh	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. Nainasti	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, Mansukhgarhi	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
Vegetables	Varietal evaluation, Nutrient management

### 3. TECHNICAL ACHIEVEMENTS

#### 3.A. Details of target and achievements of mandatory activities by KVK during 2022

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
12	10	60	50	100	205.4	100	205.4

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	58	58	1087	1087	1000	758	20000	10943
Rural youth	06	06	93	93				
Extn. Functionaries	06	06	150	150				
<b>Total</b>	<b>70</b>	<b>70</b>	<b>1330</b>	<b>1330</b>	<b>1000</b>	<b>758</b>	<b>20000</b>	<b>10943</b>

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	433.87	-	20000	22000	115

## 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	Wheat	T1-Farmers Practice(DAP) T2-3 spray NPK (0:52:34) @ 10 kg /ha	01	04
		T <sub>1</sub> -Use of DAP +Urea as basal dose (Farmer practice) T <sub>2</sub> - spray of NPK(0:52:34) as a water soluble fertilizer @2.5kg/ha T <sub>3</sub> - spray of NPK(0:52:34)+ spray of Sagarika @ 250ml	01	05
Varietal Evaluation	Brinjal	T <sub>1</sub> - Local (Shyamla) T <sub>2</sub> -Kashi Sandesh	01	05
Post Harvest Technology/Value Addition	Millets	T1- Wheat flour T2- Multigrain flour with spices	05	05
	Soyabean and Millets	T1- Traditional Food T2- Soy-n-pro mixture	05	05
I Integrated Pest Management (Fall army worm in Maize) Integrated Pest Management (Fruit borer in	Maize	T <sub>1</sub> : Farmers practice- use of Chloropyriphos + cypermethrin @ 1000 ml/ha T <sub>2</sub> : Cyantraniliprol 19.8% + Thiomethoxam 19.8% @	05	05

Tomato)		32 ml/6kg seed (seed treatment)		
	Tomato	T <sub>1</sub> : Farmers practice- use of cypermethrin @ 1000 ml/ha T <sub>2</sub> : Emanectin Benzoate 1.5% + Fipronil 3.5% SC @ 750 ml/ha Folier spray	05	05
I Integrated Pest Management (Fall army worm in Maize)	Maize	T <sub>1</sub> : Farmers practice- use of Chloropyriphos + cypermethrin @ 1000 ml/ha T <sub>2</sub> : Cyantraniliprol 19.8% + Thiomethoxam 19.8% @ 32 ml/6kg seed (seed treatment)	05	05
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
<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	Buffalo	T <sub>1</sub> :- Farmer practice (Common Salt). T <sub>2</sub> :- UMMB	01	08
Nutrition Management				
Production and Management				
Others (Pl. specify)	cow	T <sub>1</sub> :- Farmer practice (Common Salt). T <sub>2</sub> :- Gonadotropin Hormone	01	13
<b>Total</b>			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

**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  $50 \times 5 = 250$  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)				
<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

**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  $50 \times 5 = 250$  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 <sup>2</sup>	Yield (qt/ha)	Increase in Yield (%)	B:C Ratio
T1-Farmers Practice(DAP)	04	89	388	45.2	-	2.47:1
T2-3 spray NPK (0:52:34) @ 10 kg /ha		93	405	46.7	3.3	2.72:1

**Spray Sechedule:-** 1<sup>st</sup> spray at 30 DAS @ 2.5kg/ha  
 2<sup>nd</sup> spray at 50 DAS @ 3.75kg/ha  
 3<sup>rd</sup> spray at 70 DAS @ 3.75kg/ha  
 Spray prepared in 200 ltr of water.

**Gross Cost :-** 56125.00

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

### NUTRIENT MANAGEMENT

**Problem definition:** Find out the integrated use of nitrogen and plant growth regulator for enhancing growth and yield of spinach (var. Pusa All Green)

**Technology Assessed :** To find out the dose of organic bio stimulant-sagarika  
**Performance of organic bio stimulant-sagarika**

Technology Option	No. of trials	Plant height	Morphological quality	No. of cuttings	Yield per running meter	B:C Ratio
T <sub>1</sub> -Use of DAP +Urea as basal dose (Farmer practice)	05					Result awaited
T <sub>2</sub> - spray of NPK(0:52:34) as a water soluble fertilizer @2.5kg/ha						
T <sub>3</sub> - spray of NPK(0:52:34)+ spray of Sagarika @ 250ml						

**Spray Sechedule:-** 1<sup>st</sup> spray of NPK @ 2.5kg/ha in 500lit water at 35-40 DAP  
 2<sup>nd</sup> spray of NPK @ 2.5kg/ha in 500lit water at 55-60 DAP  
 1<sup>st</sup> spray of Sagarika @ 250ml/ha at 35-40 DAP  
 2<sup>nd</sup> spray of Sagarika @ 250ml/ha at 55-60 DAP

### VARIETAL EVALUATION

**Problem definition:** Find out the production potential through varietal evaluation because of low production by local variety.

**Technology Assessed:** To find out the performance of the brinjal variety (Kashi Sandesh) introduced from IIVR, Varanasi.

**Performance of brinjal variety (Kashi Sandesh)**

Technology Option	No. of trials	Plant height	No. of flowers per plant	No. of fruits per plant	No. of diseases infested plants /100 plants	Days to flowering	Yield per plant	B:C Ratio
T <sub>1</sub> - Local (Shyamla)	05	Result awaited						
T <sub>2</sub> -Kashi Sandesh								

### Integrated Pest Management

**Problem definition:** Incidence of Tomato fruit borer insect in Tomato

**Technology Assessed or Refined:** Management of fruit borer insect in Tomato.

Tomato is an important vegetable crop of Northern India. Different disease and pest affect of this crop. Fruit borer is one of the most important pest of tomato crop and causes upto 50% crop loss. KVK, Bulandshahr conducted On Farm Trials on assessment of the management technology. The assessed technology of two foliar spray with Emanectin Benzoate 1.5% + Fipronil 3.5% SC @ 750 ml/ha decreased the percent of pest incidence by 49.40% and increase yield by 30.66% in comparison to the farmers practices of cypermethrin @ 1000 ml/ha.



**Table:** Effect of Emanectin Benzoate 1.5% + Fipronil 3.5% SC @ 750 ml/ha 02 Foliar spray in the management of fruit borer insect in Tomato crop.

Technology Option	No. of trials	Incidence of fruit borer (%)	% decrease in fruit borer incidence	Yield (kg/ha)	% Increase in yield over farmer's practice	BC Ratio
T <sub>1</sub> : Farmers practice-cypermethrin @ 1000 ml/ha foliar spray	05	21.80	-	540.00	-	7.6:1
T <sub>2</sub> : Emanectin Benzoate 1.5% + Fipronil 3.5% SC @ 750 ml/ha 02 Foliar spray		8.5	61.00	722.00	33.70	12.0:1

### Integrated Pest Management

**Problem definition:** Incidence of Fall Army worm in Maize crop.

**Technology Assessed or Refined:** Management of fall army worm in Maize crop.

Maize is an important cereal crop. Different disease and pest affect of this crop. Fall army worm has emerged as a pest of serious concern due to its nature and quantum of damage to standing crop. KVK, Bulandshahr conducted On Farm Trials for assessment of the management technology. The assessed technology of Cyantraniliprol 19.8% + Thiomethoxam 19.8% @ 32 ml/6kg seed (seed treatment) resulted in significant decrease in crop loss due to FAW infestation.

**Table** Effect of Cyantraniliprol 19.8% + Thiomethoxam 19.8% @ 32 ml/6kg seed (seed treatment) in the management of Fall Army Worm in Maize Crop.

Technology Option	No. of trials	Incidence of Fall Army Worm (%)	% decrease in Fall Army Worm	Yield (kg/ha)	% Increase in yield over farmer's practice	BC Ratio
T <sub>1</sub> : Farmers practice-use of Chloropyriphos + cypermethrin @ 1000 ml/ha	05	29.0	-	29.0	-	1.8:1
T <sub>2</sub> : Cyantraniliprol 19.8% + Thiomethoxam 19.8% @ 32 ml/6kg seed (seed treatment)		9.0	68.9	46.5	37.63	2.6:1

### Value Addition

**Problem definition:** Prevalence of malnutrition among pregnant women

**Technology assessed:** Assessment of soy-n-pro mixture among malnourished pregnant women.

Table. Performance of nutritional Badis.

Technology Option	No. of trials	Cost Rs/kg		Nutritional occupancies in diet (%)	Shelf life (%)	Wt (kg)	Hb (g/l)
		Demo.	Market				
T1:- Injudicious consumption of carbs and ghee	05			60	100	53.0	9.8
T2- Soy-n-pro mixture	05	150	450	30	100	56.5	10.6

Nutrients/100 gram					Other parameters
Energy	Protein	Carbs	Fats	Iron	
365	7	65	50	0.1	More tired and persistent weakness
385	21	46	20	4.6	Relatively laser experience of above symptoms. More energetic

- To fulfill micro nutrient deficiency soy-n-pro mixture is beneficial.
- Method of preparing mixture was elaborately explained.
- This is considered as high nutrient efficiency diet and can be consumed by every age group of both gender.

### Value Addition

**Problem Definition :** Gut related issues like bloating, flatulence and constipation in rural women  
**Technology Assessed:** Assessment of multigrain flour with spices to combat gut issues faced by rural women.

#### Performance Table

Technology Option	No. of trials	Cost Rs/kg	Shelf life (%)	Nutrients						Other parameters
				Energy	Protein	Carbs	Fats	Fiber	Iron	
T1:- Wheat Flour	05	30	100	339	13.7	60.37	1.87	12.2	3.88	More bloating after having food
T2- Multigrain flour with spices	05	65	100	368	19.24	53.48	1.97	19.02	6.24	Gut is relieved with Fiber and Zinc contents

- Millets are important source of micro nutrients and thus should be included in diet
- Spices being rich in iron zinc and selenium prevents from different disease.

### 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	Percent Infertility
-------------------	-------	---------------------

	trials	
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 Hormone in control of Infertility.

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

Regular use of Gonadotropin Hormone 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 2019 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	Mustard	ICM	Varietal and Basal Application of elemental sulphur @ 25 kg/ha	Variety and Basal Application of elemental sulphur @ 25 kg/ha	04	32	10
2	Wheat	Weed control	Chemical herbicide	Use of Pinoxonxole@ 1 liter/ha mixed with Metsulfuron methyl @ 20g/ha	56	188	277
3	Lentil	Varietal demonstration	L-4717	Use of variety L-4717	09	102	88
4	Green Gram	Varietal demonstration	P-Virat	Use of variety P-Virat	11	87	156
5	Nutritional Garden	House hold food security	Chemical free vegetable	Use of neem oil, ashes, vermicompost and garlic +	18	70	-

				butter milk spray			
6	Tomato	Value	Tomato	Acetic acid@5ml/1 kg Sodium benzoate@2ml/1 kg	4	38	-
7	Mineral Mixture	Infertility management	Mineral Mixture	Mineral Mixture 40 g/day/animal	29	1645	-
8	Paddy (PS-5)	IDM (False smut)	Azoxystrobin 11% + Tebuconazole 18.3% @ 625 ml/ha (foliar spray at ear emergence and milk stage)	Azoxystrobin 11% + Tebuconazole 18.3% @ 625 ml/ha	25	1064	518
9	Paddy (Pusa 1121/ 1509)	IDM (Neck blast)	Isoprothulan 40% EC (foliar spray at ear emergence)	Isoprothulan 40% EC	39	1255	859

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

b. Details of FLDs implemented during **2022** (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	Them atic area	Technology Demonstrated	Sea son and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortf all in achiev ement
					Proposed	Actual	SC/ST	Other s	Total	
1	Must ard	ICM	Varietal and basal Application of elemental sulphur @ 25 kg/ha	Rabi 2021 -22	10	10	07	25	32	-
2	Wheat	Weed control	Chemical herbicide	Rabi 2021 -22	6.0	6.0	1	14	15	
3	Lentil	Varietal demon stration	L-4717	Rabi 2021 -22	10.0	10.0	12	47	59	
4	Green Gram	Varietal demon stration	P-Virat	Zaid 2021	10.0	10.0	11	25	36	
5	Nutrit ional Gard en	Hous e hold food securi ty	Use of neem oil, ashes, vermicompo st and garlic + butter milk spray	Ra bi 20 21-22	0.30	0.30	06	14	20	
6	Tom	Value	Acetic	Ra	-	-	0	10	10	

	ato	addition	acid@5ml/1 kg Sodium benzoate@ 2ml/1 kg	bi 20 22						
7.	Carrot (Pusa Rudhira)	Bio-fortified Varietal evaluation	Scientific cultivation of Bio-fortified variety Pusa Rudhira	Rabi 20 22-23	0.40	0.40	05	05	10	
	Paddy (PS-5)	IDM (False smut)	Azoxystrobin 11% + Tebuconazole 18.3% @ 625 ml/ha (foliar spray at ear emergence and milk stage)	Khari f 2021	4.0	4.0	2	8	10	-
	Paddy (Pusa 1121/1509)	IDM (Neck blast)	Isoprothulan 40% EC (foliar spray at ear emergence)	Kharif 2021	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							
Mustard	Rabi 2021-22	Irrigated	Sandy Loam	M	L	M	Sorgham,	05-10-21 to 12-11-21	02-04-22 to 12-04-22				
Wheat	Rabi 2021-22	Irrigated	Sandy Loam	M	L	M	Paddy	05-11-21 to 29-11-21	12-04-22 to 20-04-22				
Lentil	Rabi 2021-22	Irrigated	Sandy Loam	M	L	M	Maize	1-11-21 to 25-11-21	20-3-22 to 05-04-22				
Green Gram	Zaid 2022	Irrigated	Sandy Loam	M	L	M	Potato	05-03-22 to 10-04-22	15-06-22 to 10-07-22				
Paddy (PS-5)	Khari f 2021	Irrigated	Sandy Loam	M	L	M	Dhaicha	15-6-2021 to 10-7-2021	10-10-2021 to 25-10-2021				
Paddy (Pusa 1121/1509)	Khari f 2021	Irrigated	Sandy Loam	M	L	M	Urd/moong	15-6-2021 to 10-7-2021	10-10-2021 to 25-10-2021				

1509)											
Nutritional Garden	Rabi 2021-22	Irrigated	Sandy Loam	M	L	M	-	12-01-2022 to 18-01-2022	04-04-2022 to 10-04-2022		
Carrot	Rabi 2022-23	Irrigated	Sandy Loam	M	L	M	-	24-11-22 to 17-12-22			

#### Technical Feedback on the demonstrated technologies

S. No	Feed Back
2 Wheat	Spray of pinodexone @ 1 liter/ha and metsulfuron @20g/ha is effective to control weeds
3 Lentil	Variety L-4717 is resistant to wilt disease.
4 Green Gram	P-Virat early maturing and more pod length
Nutritional Garden	The vegetable grown in nutritional garden are comparatively soft and more palatable test wise. The vegetable produced are chemical free.
Tomato Preservation as puree	The self life of puree was 100% and due to scientific use of preservatives the taste did not vary
Paddy (PS-5)	Farmers appreciated the performance of demonstrated technology in terms of productivity and seed quality.
Paddy (Pusa 1121/ 1509)	Farmers appreciated the performance in terms of productivity, and satisfied with the fact that their rice can qualify for export since use of Tricyclazole is creating problems of residues above permeable levels

#### Farmers' reactions on specific technologies

S. No	Feed Back
2 Wheat	pinodexone + Metsulfuron is quite effective against <i>Phalaris minor</i> and other broad leaves weed.
3 Lentil	Farmers appreciated the performance in terms of productivity and quality
4 Green Gram	Farmers appreciated the performance in terms of productivity
Nutritional Garden	The vegetable grown in nutritional garden are comparatively soft and more palatable test wise.
Tomato	The puree made was very palatable and can be used throughout the year.
Paddy (PS-5)	Farmers appreciated the performance of demonstrated technology in terms of productivity and seed quality.
Paddy (Pusa 1121/ 1509)	Farmers appreciated the performance in terms of productivity, and satisfied with the fact that their rice can qualify for export since use of Tricyclazole is creating problems of residues above permeable levels

#### Extension and Training activities under FLD

SI.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	08	Feb- March 2022 and Aug 2022	122	
2	Farmers Training	09	Jan- March 2022 and June-Aug 2022	310	
3	Media coverage	08		Mass	
4	Training for extension functionaries	04		82	

## 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																		
Rape seed and Mustard	ICM	Variety and Basal application of sulphur @25 Kg/Ha	RH-0749	32	10	21.5	16.5	19.5	16.29	18.33	40854	97290	56236	2.38:1	37550	82265	44715	2.19:1
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	P-Virat and Basel application of Sulphur@ 25 kg/ha	P-Virat	32	10	8.4	5.0	7.1	5.6	21.12	24150	50055	24904	1.07:1	22715	39480	16765	1.73:1
Chickpea																		
Fieldpea																		
Lentil	Varietal Demonstration	Use of latest variety L-4717 and Basel application of Sulphur@ 25 kg/ha	L-4717	41	10.0	11.4	6.1	8.4	5.2	35.40	23780	46200	22420	1.94:1	22150	34100	11950	1.53:1
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 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)
<b>Cattle</b>																	
<b>Buffalo</b>																	
<b>Buffalo Calf</b>																	
<b>Dairy</b>																	
Mineral Mixture	Infertility problem	Management of Infertility through Mineral mixture.	27	27			34.56	-	-	12500	32700	20200	2.6:1	12200	24300	12100	1.9:1
					27	27											
Urea treated Wheat Straw	Milk Production	Impact of Urea treated wheat straw in milch animals	10	10			35.47	-	-	12700	32850	20150	2.5:1	12300	24450	12150	2.0:1
					10	10											
Green Fodder	Milk Production	Fulfillment of green fodder for milch animals	20	20			16.00			21570	68000	46430	3.1:1	19985	52000	32015	2.6:1
					20	20											
Mineral Mixture	Infertility problem	Management of Infertility through Mineral mixture.	29	29			26.00	-	-	14770	33250	19480	2.25:1	14380	28350	13970	1.97:1
					29	29											
<b>Poultry</b>																	
<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 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				Shelf life			Market Cost										
	Tomato Puree	10	1	100%	20%	133.33	130	500	160	500	340	2.35:1	140	360	220	1.81:1	
Vermi Compost																	

### FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check



Pulse crop													
Cereal crop													
Maize													
Vegetable crop													
Fruit crop													
Other (specify)													

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







Others (pl specify)										
<b>Total</b>	<b>9</b>	<b>80</b>	<b>6</b>	<b>86</b>	<b>90</b>	<b>11</b>	<b>101</b>	<b>170</b>	<b>17</b>	<b>187</b>
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high valume crops	2	20	0	20	16	4	20	36	04	40
Off-season vegetables	1	20	0	20	0	0	0	20	0	20
Nursery raising	1	02	13	15	0	05	05	02	18	20
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
<b>Total (a)</b>	<b>04</b>	<b>42</b>	<b>13</b>	<b>55</b>	<b>16</b>	<b>9</b>	<b>25</b>	<b>58</b>	<b>22</b>	<b>80</b>
<b>b) Fruits</b>										
Training and Pruning	01	02	13	15	0	05	05	02	18	20
Layout and Management of Orchards	01	02	13	15	0	05	05	02	18	20
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (INM)	01	02	13	15	0	05	05	02	18	20
<b>Total (b)</b>	<b>03</b>	<b>06</b>	<b>39</b>	<b>45</b>	<b>0</b>	<b>15</b>	<b>15</b>	<b>06</b>	<b>54</b>	<b>60</b>
<b>c) Ornamental Plants</b>										
Nursery Management	1	0	0	0	20	0	20	0	20	20
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>2</b>	<b>16</b>	<b>0</b>	<b>16</b>	<b>24</b>	<b>0</b>	<b>24</b>	<b>36</b>	<b>4</b>	<b>40</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	03	48	0	48	12	0	12	60	0	60











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>	<b>58</b>	<b>450</b>	<b>342</b>	<b>782</b>	<b>284</b>	<b>91</b>	<b>375</b>	<b>650</b>	<b>437</b>	<b>1087</b>

### 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	01	11	-	11	6	1	7	17	01	18
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)										
<b>TOTAL</b>	<b>01</b>	<b>11</b>	<b>-</b>	<b>11</b>	<b>6</b>	<b>1</b>	<b>7</b>	<b>17</b>	<b>01</b>	<b>18</b>



farm machinery and implements										
Value addition	01	02	13	15	0	0	0	2	13	15
Small scale processing	01	02	13	15	0	0	0	2	13	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										
Fry and fingerling rearing										
Any other (pl.specify)										
<b>TOTAL</b>	<b>6</b>	<b>33</b>	<b>26</b>	<b>56</b>	<b>32</b>	<b>02</b>	<b>34</b>	<b>65</b>	<b>28</b>	<b>93</b>

#### 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)										
<b>TOTAL</b>										

#### 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	02	0	0	0	0	0	0	40	0	40
Integrated Pest Management	01	0	00	0	0	0	0	20	0	20
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	01	12	00	12	03	0	3	15	0	15







Grand Total									
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#### IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	310	698	51	1059
Diagnostic visits	82	372	38	492
Field Day	08	172	17	197
Group discussions	86	789	32	907
Kisan Ghosthi	12	1125	36	1173
Film Show				
Self -help groups	15	178	11	204
Kisan Mela	05	1920	101	2026
Exhibition	03	1175	53	1231
Scientists' visit to farmers field	86	389	39	514
Plant/animal health camps				
Farm Science Club				
Ex-trainees Sammelan				
Farmers' seminar/workshop	02	46	05	53
Method Demonstrations	10	205	13	228
Celebration of important days	13	290	12	315
Special day celebration	02	110	08	120
Exposure visits	12	318	27	357
Others (pl. specify)				
Lecture delivered	24	862	22	908
Congress grass control prog.	04	35	03	42
Farmers visit to KVK	82	865	82	1029
Kharif and Rabi Abhiyan	02	81	5	88
<b>Total</b>	<b>758</b>	<b>9630</b>	<b>555</b>	<b>10943</b>

#### Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	
Extension Literature	05
News paper coverage	05
Popular articles	20
Radio Talks	5
TV Talks	10
Animal health camps (Number of animals treated)	18
Others (pl. specify) Different programme as Directed by ICAR	
<b>Total</b>	<b>63</b>

Name of KVK	Message Type	Type of Messages					Total	
		Crop	Livestock	Weather	Marke-ting	Aware-ness		Other enterprise
	Text only	86	28	145	10	23	18	310
	Voice only	5	2	10	36	110	56	219
	Voice & Text both	13	12	5	10	16	18	74
	<b>Total Messages</b>	<b>104</b>	<b>42</b>	<b>160</b>	<b>56</b>	<b>149</b>	<b>92</b>	<b>603</b>
	<b>Total farmers Benefitted</b>	<b>104</b>	<b>42</b>	<b>160</b>	<b>56</b>	<b>149</b>	<b>92</b>	<b>603</b>

## 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	56	All crop and animals
	Lectures organised	1	56	All crop and animals
	Exhibition	1	56	All crop and animals
	Film show			
	Fair	1	83	
	Farm Visit	1	75	
	Diagnostic Practicals			
	Distribution of Literature (No.)	1	1526	
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)			
	Bio Product distribution (Kg)	-	-	
	Bio Fertilizers (q)	-	-	
	Distribution of fingerlings	-	-	
	Distribution of Livestock specimen (No.)	-	-	
	Total number of farmers visited the technology week		110	

## 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		279.67	573847	
	Wheat	DBW-725		150.00	232500	
	Wheat straa				90000	
Oilseeds	Mustard	RH-749		-	-	
	Pegeon Pea with stick	Pant 2001		4.2	-	
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						

Forest Species						
Others						
<b>Total</b>				<b>433.87</b>	<b>896347.00</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						
	Bringal	Kashi Sandesh	-	2000	150	18
	Cabbage	Pusa Drum Head		3000	100	15
	Cauliflower	Snow ball-16		3000	150	22
	Tomato	Pusa Sadabahara		2000	300	45
	Chilli	Pusa Jawala		2000	150	10
	Onion	Agri found red		10000	1500	05
Fruits						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
<b>Total</b>				<b>22000</b>	<b>2350</b>	<b>115</b>



**Production of Bio-Products**

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

**Table: Production of livestock materials**

<b>Particulars of Live stock</b>	<b>Name of the breed</b>	<b>Number</b>	<b>Value (Rs.)</b>	<b>No. of Farmers</b>
<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
Bulandshahr	01, 19.11.2022

## IX. NEWSLETTER/MAGAZINE

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

## X. PUBLICATIONS

Category	Number
Research Paper	06
Technical bulletins	08
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
<b>Total</b>			

### Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
<b>Total</b>		

### Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants
<b>Total</b>		

### Animal health camps organised

Number of camps	No.of animals	No.of farmers
<b>Total</b>		

### Seed distribution in drought hit states

Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
<b>Total</b>			

### Large scale adoption of resource conservation technologies

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

## 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
<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>			



## Success Story of Vermicompost

Name :Sh. Ashok Kumar  
 Village :Aulina, Bulandshahr.  
 Mobile No - 8755121460

Sh. Ashok Kumar holds 1.5 acre land in his village. In which 0.5 acre is under planted crop. He realized that income earned from the land is too low to earn bread for family and fulfill basic requirements of the family. He attended different trainings organized by KVK in his village. After attending technical training on vermicompost unit establishment he decided to start one in 2018. KVK supported him in all the scientific technicalities in establishing the unit. He managed to get earthworms from Ghaziabad. Established 1 bed unit in few days with his efforts. KVK scientists made frequent visit to his place. He started contacting road side nurseries in Bulandshahr to Sikandrabad road and prepared packets of 500gm, 1 kg and 2 kg. The quality of is good and thus attracted the attention of nursery growers. Now he has 42 to 45 vermicompost beds and earns Rs 10000 to 12000 per months by selling it. He extended his area of selling from Bulandshahr to Noida road side nurseries. Mr. Ashok Kumar also gives technical training of same to farmers and till date gave training to 52 farmers in which 15 farmers established their own unit for their personal use in their own vegetable fields. They also provide vermicompost to other farmers in nearby villages. Mr, Ashok is highly thankful to kvk as with money he also earend respect among line departments. He is called as a resource person on vermicompost technicals. He received 4 awards for his efforts and extension of technology.

Year	No of Beds	Yield (qt)	Gross Return (Rs )	Cost of Cultivation (Rs)	Net Return (Rs)
2020	7	7.350	44100	12000	32000
2021	45	405.0	202500	72000	130500

### 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 $\sqrt$ 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	3
02	Field days	4
03	Workshops / seminars	
04	Technology week	
05	Training programmes	
06	Others pl. specify (inauguration of KVK building)	4

### 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	

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## 2) Achievements under Crop Residue Management (CRM) Project by KVKs

### a) CRM Machinery procured by KVKs

S.No.	Name of the Machine/ Equipment	No. of machines procured
1	Happy Seeder	01
2	Reversible M.B. Plough	01
3	Paddy Straw Chopper/ Shredder / Mulcher	02
4	Zero Till Drill	01
5	Rotavator	
6	Tractor	
7	Cutter cum spreader	01
<b>Total</b>		<b>06</b>

### b) IEC activities organized under CRM Project by KVKs

S. No.	Name of IEC activity	No. of activities	No. of Participants
	Kisan Melas organized	02	524
1.	Awareness programmes conducted at Village Panchayat/ Block/ District Level		
2.	Mobilization of schools and colleges through essay completion, painting, debate etc.	07	964
3.	Demonstration conducted (ha)	100 ha	100
4.	Training Programmes conducted	04	421
5.	Exposure visits organized	04	200
6.	Field /harvest days organized	04	203
<b>Total</b>		<b>21/100 ha</b>	<b>2412</b>





#### 4) Achievement of KSHAMTA (Knowledge Systems And Home Based Agricultural Management in Tribal Areas)

Number of Adopted Villages	No. of Activities		No. of farmers benefited	
	Demo	Training	Demo	Training

#### 5) Achievements of SCSP KVKs

Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		Number of farmers involved			Participants in extension activities (No.)	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains (Number in lakh)	Production of fingerlings (Number in lakh)	Testing of Soil, water, plant, manures samples (Number)
No. of Trainings/Demos	No. of Farmers	No. of Trainings/Demos	No. of Women Farmers	No. of Trainings/Demos	No. of Youths	No. of Trainings/Demos	No. of Ext. Person	On- farm trials	Frontline demos	Mobile agro-advisory to farmers						
05	100	-	-	-	--	-	-	-	75	100	175	-	-	-	-	-

#### 6) Achievement under IFS KVKs

Sl. No.	IFS (Component Name)	No. of IFS established	Area (ha)	Number of Activities		No. of farmers benefited	
				Demo	Training	Demo	Training
1							
2							
3							

## 7) Achievements under Mera Gaon Mera Gaurav (MGMG) project

No. of institutes/ universities involved	Total No of Groups/team formed	No. of Scientists Involved	No. of villages covered	No. of field activities conducted	No. of messages/ advisory sent	Farmers benefited (No.)

## 8) Achievements of Farmers FIRST programme

NRM Module		Crop Module		Horticulture Module		Livestock & Poultry			IFS Model		Extension Activities	
Demon.	No Farm Families	Demon.	No Farm Families	Demon.	No Farm Families	Demon.	No Farm Families	No of Animals	Demon.	No Farm Families	No. of prog	Farmers

## 9) Activities performed under NARI programme

Activities	Number of activity	No. of farmers/ beneficiaries
OFTs - Nutritional Garden (activity in no. of Unit)		
OFTs - Bio-fortified Crops (activity in no. of Unit)	01	05
OFTs - Value addition (activity in no. of Unit/Enterprise)	02	10
OFTs - Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)		
FLDs - Nutritional Garden (activity in no. of Unit)	02	30
FLDs - Bio-fortified Crops (activity in no. of Unit)		
FLDs - Value addition (activity in no. of Unit/Enterprise)	01	10
FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)		
Trainings	09	175
Extension Activities	11	373
<b>Grand Total</b>	<b>26</b>	<b>603</b>

### 10) Achievements of Soil, water, plant and manure samples analyzed by KVKs and soil health cards issued

Sample	No. of Samples in lakh	No. of Farmers in lakh	No. of Villages in lakh	Amount realized (Rs. in lakhs)	No. of Soil Health Cards issued (lakhs)
Soil					
Water					
Plant					
Manure					
<b>Total</b>					

### 11) Achievements under NICRA Project

NRM		Crop production		Livestock & Fisheries			Capacity Building		Extension Activities	
Demo	Area (ha)	Demo	Area (ha)	Demo	Area (ha)	No. of animals	No of Courses	Farmers	No. of programmes	Farmers

### 12) Achievements under ARYA Project

Name of entrepreneurial units	No. of entrepreneurial units established	No. of Training programs organised	No. of rural youth trained		No. of youth established units	
			Male	Female	Male	Female
Mushroom production						
Fruits and vegetable processing units, Horticulture nursery						
Fish farming						
Poultry						
Goat farming						
Piggery						

Duck farming						
Bee keeping						
Others if any						

### 13) Achievements under Rainwater Harvesting Structures

Sr. No.	Activities	Number
1	Training programmes	
2	Demonstration	
3	Plant materials produced	
4	Visit by farmers	
5	Visit by officials	

### 14) Achievements under Pulses Seed Hub programme

Season/Crop	Name of Pulse crop	Variety	Production			Category of seed (F/S, C/S)
			Target (q)	Area sown (ha)	Actual Production (q)	
Kharif	Black gram					
	Green Gram					
	Pigeon pea					
<b>Total (Kharif)</b>						
Rabi	Chick pea					
	Field pea					

	Lentil					
<b>Total (Rabi)</b>						
Summer	Black gram					
<b>Total (Summer)</b>						
<b>Grand Total</b>						

### 15) NEMA (New Extension Methodologies and Approaches)

Name of Crop with variety	No. of districts	No. of Villages selected	No. of Blocks	No. of household selected	
				Adapter household	Non adapter household

### 16) Achievements under CSISA (Cereal System Initiative for South Asia) project

S.No.	Name of Programme	Number/quantity
1	Plantation by paddy uppulling	
2	DSR	
3	Laser leveler	
4	Training	
5	Kisan Mela	
6	Seminar	
7	Seed production (q)	

**17) Achievements under NIFTD (National Initiatives for fodder technology demonstrations)**

Name of fodder	Variety	Production (q)	Training courses	No. of farmers benefitted

**18) Achievements under Swachhata Abhiyan Mission**

S.No.	Items	No. of Programmes	No. of persons participated
1	Toilet maintenance	01	12
2	Road, drain cleaning	01	11
3	Garbage disposal	04	42
4	Door to door awareness		
5	Awareness campaign	02	18
6	Nookkad Drama		
7	School Drama		
8	School rally		
9	Writing painting slogans		
10	Composting	02	08
11	Other		

### 19) Achievements under Aspirational District Scheme

Name of programme	Number
<b>Training</b>	
Session No.	
No. of farmers	
Officers/staff involved	
<b>Seed &amp; Plant Distribution</b>	
Programme number	
Seed distribution in q	
No. of plant distributed	
Biological products distributed	
No. of programme organised	
No. of farmers	
Officers/staff involved	
<b>Animal husbandra &amp; fish distribution programme</b>	
Vaccination	
Medicine for control of parasite	
Distribution of mineral mixure	
No. of farmers	
Officers/staff involved	

#### XVI Awards

S.No.	Name of Award received	Name of KVK/farmer	Year of Award	Date on which award received
01	Innovation farmers award	Sh. Brijesh Kumar	2022	05-03-2022
02	Best Farmers Award	Sh. Pushpuraj	2022	20-02-2022
03	Dayal Innovative Award	Sh. Kulwant Singh	2022	05-08-2022
04	Dayal Innovative Award	Sh. Anant Poddar	2022	05-08-2022

*Note: Please also mention name of farmer who received the award.*



### Action Photograph





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