Krishi Vigyan Kendra, Ujhani – Badaun ANNUAL REPORT (January-December-2020)

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	41	820		820
Rural youths	11	110		110
Extension functionaries	07	70		70
Total	59	1000		1000
Sponsored Training	09	450		450
Vocational Training	06	150		150

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals	
Oilseeds				
Pulses	75	30.00	75	
Cereals	10	4.00	10	
Vegetables	45	9.00	45	
Other crops				
Hybrid crops				
Total	130	43.00	130	
Livestock & Fisheries	20		20	
Other enterprises (Poultry)	10	4500	10	
Total	30		30	
Grand Total	160	43.00	160	

3. Technology Assessment

Category	No. of Technology Assessed	No. of Trials	No. of Farmers		
Crops					
Livestock	04	21	21		
Various enterprises	03	09	09		
Total	07	30	30		

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	1448	6716
Other extension activities	61	Mass
Total	1509	6716

5. Mobile Advisory Services

		Type of Messages								
Name of KVK	Message Type	Crop Livesto ck		Weathe Mark r e-ting		Awar e- ness	Other enterpr ise	Total		
	Text only	460								
	Voice only	08	12	08						
	Voice & Text both									
	Total Messages	468	12	08						
	Total farmers Benefitted	880								

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.	Distributed to No. of
			farmers
Seed (q)	411.10	509500.00	
Planting material (No.)	11500		
Bio-Products (kg)			
Livestock Production (No.)			

7. Soil, water & plant Analysis

Type of Samples	No. of samples analysised	No. of Beneficiaries	Value Rs.
Soil			
Water			
Total			

8. HRD and Publications

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

DETAIL REPORT OF APR (Jan.2020 to Dec. 2020)

1. General Information about the KVK

1.1 Name and address of the KVK with Phone, Fax and e-mail

Address	Telephone	e-mail	Website
Krishi Vigyan Kendra,	05832 -	badaunkvk@gmail.com	badaun.kvk4.in
Ujhani	264996		
Distt. – Badaun			
PIN – 243639			

1.2 Name and address of the host organization with Phone, Fax and e-mail

Address	Telephone	Fax	e-mail	Website
Sardar Vallabhbhai	0121-	0121-	deesvpuat2014@gmail.com	svpuat.ac.in
Patel University of	2888511	2888540		
Agri. & Tech., Meerut				
-250110 (U.P.)				

1.2 a Status of KVK website : Yes

1.2 b No. of Visitors (hits) to your KVK website (as on today)

1.2 c Status of ICT lab at your KVK - No

1.3 Name of the Head with Phone & Mobile No.

Name	Telephone / Contact						
	Office	Mobile	Email				
Dr. Sanjay Kumar	05832 264996	9412368175	sanjayento77@gmail.com				

1.4 Year of sanction : 01.08.1992

1.5 Staff Position (as on 30 Oct. 2020)

S.N.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Senior Scientist & Head	Dr. Raksha Pal Singh	ON LIEN LI	EAVE								
2	Subject Matter Specialist	Dr. Sanjay Kumar	Officer Incharge	Ph.D (Entomology)	15600- 39100	31070	15.07.08	Permanent	SC	9412368175	43	sanjayento77@gmail.com
3	Subject Matter Specialist	Dr. Shri Pal Singh	S.M.S. /Asstt. Prof. (Animal Science)	Ph.D. (Animal Science)	15600- 39100	33840	18.08.08	Permanent	OBC	8954903816	59	ssspsachan@gmail.com
4	Subject Matter Specialist	Dr. Y.P. Singh	S.M.S. /Asstt. Prof. (Horticulture)	Ph.D. (Horticulture)	15600- 39100	32020	19.01.09	Permanent	OBC	9457111952	44	ypsingh76@gmail.com
5	Programme Assistant	Dr. Anand Prakash	Trg. Asstt. (A.V. Aids)	Ph.D. (Agril. Extn.)	1740- 3000	78800	20.12.95	Permanent	OBC	9412195441	54	dranandprakash121@gmail.c om
6	Computer Programmer	Sh. Ashish Agarwal	Prog. Asstt. (Computer)	B.Sc. & Diploma in computer	9300- 34800	74300	16.10.99	Permanent	Other	9456868422	45	to.ashishagarwal1999@gmai l.com
7	Farm Manager	Dr. Vimal Kumar Singh	Prog. Asstt.\Farm Manager	Ph.D (Entomology)	9300- 34800	52000	22.07.08	Permanent	Other	9450779838	40	to.vksingh1978@gmail.com
8	Accountant / Superintendent	Sh. Alok Saxena	Office. Supdt./ Accountant	M.Com.	9300- 34800	68000	6.9.2000	Permanent	Other	9411300515	48	saxenaalok72@gmail.com
9	Driver cum Mechanic	Sri. Subash Chand	Driver	B.A.	5200- 20200	31400	01.03.08	Permanent	OBC	9719818397	46	-
10	Supporting staff	Sh. Riyasat	Mali	Literate	5200- 20200	35300	28.04.97	Permanent	OBC	9917405005	55	-
11	Supporting staff	Sh. Jagvir Singh	Field Attendant	B.A.	5200- 20200	30200	15.01.04	Permanent	OBC	9410021878	35	jagvirshakya85@gmail.com

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1.	Total Area	14.045 ha
2.	Area under Building	1.90 ha
3.	Others (specify) Fish pond	0.345 ha
4.	Total Cultivated land	11.80 ha
a.	Under Crops	10.50 ha
b.	Orchards	1.30 ha
	Total	14.045 ha

1.7. Infra-structural Development

A) Buildings SI. Name of Source Stage building Complete of Incomplete funding Completion Plinth Expenditure Plinth Status of Starting date area (lac) date area construction (sq.m) (sq.m) Administrative ICAR 2001 550 29.00 Complete 1. building 2. Farmers ICAR 2005 300 16.43 Complete Hostel Staff Quarters 3. ICAR 2008 2400 28.67 Complete _ (06) Demo. unit. 4. ICAR 2008 160 4.00 _ Complete (02)Fencing ICAR 2007 2000 16.43 Complete 5. ICAR 2005 4000 Rain water 0.33 Complete 6. harvesting system 7. Threshing ICAR 2007 300 1.00 Complete floor Farm godown ICAR 2007 60 1.00 Complete 8.

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Vehicle No. /Total kms. Run	Present status
Jeep (01)	2008	507000.00 + Expenses	UP24 – G 0127 / 192638	Working
Motorcycle (01)	2010	Purchased by H.Q.	UP24G-0148/79000	Working
Cycle (02)	1998	2338.00	-	Working

C) Equipments & Audio Visual Aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status
Computer Hub system	Received 2008	Purchased by ERNET	Not Functioning
Computer	Received 2005	Purchased by H.Q.	Working
Computer Printer	Received 2005	Purchased by H.Q.	Working
Computer Printer	2006	6800.00	Working
Projector	2004	Purchased by H.Q.	Working
Soil testing lab. equipment	2005	485432.40	Working
Colour television & DVD player	2006	14500.00	Working
LCD	2007	64125.00	Working
Digital Camera	2008	19990.00	Working
Laptop	2014	Purchased by H.Q	Working
Laptop	2017	Purchased by H.Q.	Working

1.8. A). Details of SAC meetings to be conducted in the year

SI.No.	Date
1. Scientific Advisory Committee	09.11.2020

S.N.	Name & Designation of	Salient Recommendations	Action taken	
	Delegates			
1	Sri. Vinod Kumar, DAO,	Sri. A.P. Singh, DDO Badaun	Suggestion have been incorporate	
	Badaun	suggested that there should be	in Action Plan	
		training of application of		
	Sri. Ajay Kumar	Trichoderma, Neem and other		
	Singh, Distt.	biopesticides	~	
2	Sericulture Officer,	Sri. Ajay Kumar Singh	Suggestion have been incorporate	
		suggested that there should be	in Action Plan	
	Dr. A.K. Jadon	add more training on Sericulture		
2	CVO, Badaun	to expend the area.		
3		CVO, Badaun advised to	Suggestion have been incorporate	
	Dr. A.K. Chaubey	include the training on organic	III ACUOII Plan	
	Incharge, ZRC, Ujhani	Tarming and Goalery.	~	
4		Dr. A.K. Chaubey suggested that	Suggestion have been incorporate	
	Dr. Suneel Kumar, DHO,	Bee keeping and mushroom	in Action Plan	
	Badaun	training should be conducted for		
5		Sri Leeladhar Sharma suggested	Suggestion have been incorporate	
5	Dr. Vivek Kumar, V.O.,	that KVK should make available	in Action Plan	
	Ujhani	minikit of vegetables for kitchen		
		gardening.		
6	Sri. Rajesh Pratap Singh	Shri. Rajesh Pratap Singh	Suggestion have been incorporate	
	SAC, Member	suggested that KVK should	in Action Plan	
		arrange technological tour for		
		farmers in different institutions.		

7	Sri. Subham Gupta	Smt. Sadhana Singh suggested	Suggestion have been incorporate
	Fisheries Development	that there should be training for	in Action Plan
	officer	farm women on value addition in	
		vegetables & fruits.	
8	Smt. Sadhana Singh	Dr. Vivek Kumar suggested that	Suggestion have been incorporate
	SAC, Member	an animal health camp for	in Action Plan
		awareness on importance of ecto	
	Pandit Leeladhar Sharma	& endo parasites.	
9	Progressive Farmer	Sri. Leeladhar Sharma suggested	Suggestion have been incorporate
		that training on Medicinal Plant	in Action Plan
		cultivation technology and their	
		importance.	

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1.	Agriculture + Horticulture + Animal Husbandry
2.	Agriculture + Animal Husbandry + Horticulture
3.	Agriculture + Animal Husbandry + Poultry
4.	Agriculture + Horticulture + Animal Husbandry + Poultry

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

a) Soil Type

S. No	Agro ecological situation	Characteristics
1.	AES-I	It represents the Mid Western Plain Zone of the district having light soil with medium fertility, medium rainfall and most suited for paddy, wheat, potato, sugarcane, Bajra as well as guava cultivation. Out of 15 development blocks of Badaun district. It covers four blocks viz. Dataganj, Samrer, Meon, Usawan
2.	AES-II	It represents the Mid Western Plain Zone of the district with loamy soil having medium fertility, medium rain fall, suited for all type of crops viz. wheat, sugarcane, paddy, Bajra as well as vegetable crops due to proximity to the city. It covers five blocks viz. Jagat, Ujhani, Qadarchowk, Salarpur and Wajirganj.
3.	AES-III	It represents the Mid Western Plain Zone of the district having sandy soil and sandy loam with medium fertility and medium rainfall. Six development blocks viz. Bisauli, Asafpur, Ambiyapur, Islamnagar, Sahaswan, Dehgawan comes under this AES. It is suited for cereal crops as well as vegetables.

b) Topography

S. No.	Agro ecological	Characteristics
	situation	
1	AES-I	It represents the Mid Western Plain Zone of the district having light soil with medium fertility, medium rainfall and most suited for paddy, wheat, potato, sugarcane, Bajra as well
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	as guava cultivation. Out of 15 development blocks of Badaun district. It covers four blocks viz Datagani Samrer Meon Usawan
2		
2		It represents the Mid Western Plain Zone of the district with loamy soil having medium
	AES-II	fertility, medium rain fall, suited for all type of crops viz. wheat, sugarcane, paddy, Bajra as
	_	well as vegetable crops due to proximity to the city. It covers five blocks viz. Jagat, Ujhani,
	Qadarchowk, Salarpur and Wajirganj.	
3		It represents the Mid Western Plain Zone of the district having sandy soil and sandy loam
		with medium fertility and medium rainfall. Six development blocks viz. Bisauli, Asafpur,
	AES-III	Ambiyapur, Islamnagar, Sahaswan, Dehgawan comes under this AES. It is suited for cereal crops as well as vegetables.

2.3 Soil types

SI. No	Soil type	Characteristics	Area (ha)
1	Clay Loam	It is more fertile than sandy and sandy loam	2558
2	Sandy Soil	Sandy soil is dominated and having low status of NPK.	224480
3	Sandy Loams	It is more fertile than sandy soil	199730

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

S. No	Сгор	Area (ha)	Production (mt)	Productivity (Qtl /ha)			
Α	FIELD CROPS INCLU	FIELD CROPS INCLUDING OIL SEEDS AND PULSES					
1.	Wheat	232327	772345	33.24			
2.	Gram	68	75	11.11			
3.	Pea	836	1774	21.22			
4.	Mustard /Toria	35071	52417	14.95			
5.	Lentil	3842	5379	14.00			
6.	Paddy	78127	178254	22.82			
7.	Bajra	99882	185962	18.62			
8.	Maize	8024	16653	20.75			
9.	Arhar	503	492	9.79			
10.	Groundnut	525	620	11.80			
11.	Moong	126	68	5.40			
12.	Sugarcane	26891	1560108	580.16			
В	VEGETABLES						
1.	Potato	12104	214664	177.35			
2.	Tabacco	706	3912	55.45			
3.	Turmeric	250	715	28.61			

2.5. Weather data (2019-20)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum Minimum		Maximum	Minimum
Total					

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

Category	Population	Production	Productivity
Cattle	· · · · ·		
Buffalo	40590		
Sheep	15930		
Goats	22975		
Pigs			
Crossbred	10561		
Indigenous	22945		
Rabbits			
Poultry			
Hens	159725		
Desi			
Category		Production (Q.)	Productivity
Fish (Reservoir)			

*Statical report

2.7 Details of operational area / villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust areas
Bilsi	Ambiapur	Hasupur Baheria	Bajra, Maize, Jower, Wheat, Potato,	Productivity of paddy, wheat, Maize, Bajra, Lentil etc. in	Integrated nutrient management.
Sadar	Ujhani	Prathvi Nagla, Mehona, Hajratganj,	Mustard, Barly, Toria, Sugarcane, Paddy,	general are very low. The main reason of low yield is imbalance	High yielding varieties
	5	Bhawanipur, Baramaldey	Gram, Vegetables, Mentha Poultry	use of fertilizer and lack of high	Post harvest management.
		Daramaidev	Buffalo, Bee keeping		Nutrition and health.
			etc.	Sever infestation of stem borer, Brown Plant Hopper and Blast	Employment generation in
Sahaswan	Dahagwan	Dhel, Malpur tatera, Bhoyas		disease in rice. Fruit borer	Rural areas.
Sanaswan	Danagwan	Biloyas		Capsicum and nematode problem in cucurbits and tomato and chilies. Wilt in lentil.	Bio pesticide in vegetables/ cereals.
				Weed infestation in various crops.	Establishment of nurseries.
				crops by the farmer. Pest problems in vegetable crops.	Diversification in Agriculture.
				Poor milk production and	Use of improved varieties.
				Lack of quality planting material in horticultural crops. Wilt infestation in Guava orchards.	Nutrition management and repeated breeding management in dairy animals.

2.8 Priority thrust areas

S.N.	Thrust area
1.	Low organic carbon & available Potassium in soil.
2.	Lack of knowledge about balance nutrition in agricultural crops.
3.	Need of diversification in agriculture.
4.	Lack of elite quality planting material of horticultural crops and lack of Bahar control in guava.
5.	Lack of knowledge about improved varieties and seed production of different crops.
6.	Lack of IPM and IDM in various crops
7.	Lack of management in animal and poultry production.
8.	Lack of improved breeds of animals.
9.	Lack of balance nutrition and good health in animals.

2.9 Intervention/ Pro	_Intervention/ Programmes for the doubling the farmers income – during 2019					Demonstrations		
Before	Main crop	Inter crop	Equivalent	Cost of	Net income(Rs/ha)	B.C:	Remark if	
Interventions	Yield(q/ha)	Yield(q/ha)	Yield(q/ha)	cultivation(Rs/ha)*		Ratio	any	
Intercropping								
System(Kharif-Rabi-								
Zaid) -Livestock etc.								
					<u>、</u> 、			
Discussion: Irrigation	, Fertilizers, Labo	ur, Land Preparati	ion, Seed, Plant pr	Otection (Weed, Pest, disease	$\frac{(\mathbf{D}_{1}, \mathbf{D}_{2})}{(\mathbf{D}_{2}, \mathbf{D}_{2})}$	D C.	Domoul. #	
Alter	Main crop	Inter crop	Equivalent		Net income(Rs/na)	B.C:	Remark II	
Interventions	Y leid(q/na)	Yield(q/na)	yield(q/na)	cultivation(Rs/na)*		Katio	any	
Intercropping								
System(Kharif-Rabi-								
Zaid) -Livestock etc.								
Discussion : Irrigation	, Fertilizers, Labo	ur, Land Preparati	ion, Seed, Plant pr	otection (Weed, Pest, disease	e) *			
Before	Main crop	Inter crop	Equivalent	Cost of	Net income(Rs/ha)	B.C:	Remark if	
Interventions	Yield(q/ha)	Yield(q/ha)	yield(q/ha)	cultivation(Rs/ha)*		Ratio	any	
Mono Cropping								
System(Kharif-Rabi-								
Zaid) -Livestock etc.								

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) * Note- Same format may be used for OFT.

3. TECHNICAL ACHIEVEMENTS

on and on target and demotements of mandatory detrifice by first daring 2020										
OFT <mark>(T</mark>	echnology Asses	ssment and	Refinement)	FLD (Oilseeds, Pulses, Cotton, Other						
					Crops/En	<mark>terprises)</mark>				
		1				2				
Numb	Number of OFTs Total no. of Trials			Ar	Area in ha Number of Farmers					
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement			
11	10	33	30	43	43	160	160			

3.A. Details of target and achievements of mandatory activities by KVK during 2020

Training					Extension Activities			
3						4	4	
Number of CoursesNumber of Participants			Number of activitiesNumber of participants			nber of cipants		
Clientele	Targets	Achievement	Targets Achievement		Targets	Achievement	Targets	Achievement
Farmers	84	55	1680	1100	2000	1448	Mass	6916
Rural youth	17	11	170	110				
Extension Functionaries	16	7	160	70				

	Seed Producti	ion (Qtl.)	Planting material (Nos.)				
	5			6			
Target	Achievement	Distributed to no. of	Target	Achievement	Distributed to no.		
		farmers	_		of farmers		
200	397	Seed supplied to NSC	20000	11500	-		

Soil/plant/water Analysis				
5				
Target	Achievement	No. of farmers covered		
1200	0	0		

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
IPM	Capsicum	Indoxacarb 14.5% @ 500 ml/ha	03	03
IPM	Tomato	Emamectin Benzoate @ 250 gm/ha	03	03
Varietal Evaluation	Onion	Evaluation of high yielding varieties	03	03
Total			09	09

Summary of technologies assessed under livestock by KVKs

	Name of the		No.	No. of
Thematic areas	livestock	Name of the technology assessed	of	farmers
	enterprise		trials	
Disease Management	Buffalo	Use of UMMB feeding (Liking)@2 Kg each -4	03	03
		brick/Month/Animal for three months feeding		
Dairy Management	Buffalo	Use of supplement feed and Vetmate inj. 02 ml /	06	06
		animal (72 hr before A.I. after 45 days of		
		Calving)		
Disease /Feed Management	Buffalo	Use of Dewormer (10 ml ivermectin inj.)/animal	06	06
		& Receptal inj 5ml (72-96 hrs before AI) +		
		Mineral mixture supplementation @ 50 g/day		
		/animal for 45 days		
Poor socio-economic status	Poultry	Use of dual purpose breed (CARI- NIRBHIK)	06	06
and malnutrition	-			
Total			21	21

Summary of technologies assessed under various enterprises by KVKs

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

Summary of technologies assessed under various crops by KVKs

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

I.B. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops by KVKs

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

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

OFT -1

Problem definition: Low yield of Capsicum due to severe attack of fruit borer

Technology Assessed or Refined : Management of fruit borer in Capsicum

An On Farm Trial was conducted in sandy loam soil under irrigated conditions for the assessment of Indoxacarb 14.5% @ 500 ml/ha at three locations in Rice-Maize-Capsicum cropping system during Rabi 2019-20. Maximum yield (388.32 q/ha) were recorded Indoxacarb 14.5% @ 500 ml/ha" while in Farmer Practice 310.53 q/ha.

Technology	No. of	Yield	Infected	Net return	BC ratio
assessed/Refined	trials	(q/ha)	fruit (%)	Rs./ha	
T ₁ F P- Cypermethrin 10EC @750 ml/ha T ₂ - Indoxacarb 14.5% @ 500 ml/ha	03	310.53 388.32	24.48 9.51	270892.00 362920.00	3.66 4.52

Table – Assessment of high yielding variety of Onion

Recommendations : Use of Indoxacarb against fruit borer gave 25.05% more yield as compare to FP. It is highly effective against fruit borer .

Farmers Reaction : It is good insecticide for fruit borer

OFT -2

Problem definition: Low yield of Tomato due to severe attack of fruit borer

Technology Assessed or Refined : Management of fruit borer in Tomato

An On Farm Trial was conducted in sandy loam soil under irrigated conditions for the assessment of **Emamectin Benzoate** @ **250 gm/ha** at three locations in Tomato-Maize cropping system during Rabi 2019-20. Maximum yield (362.58 q/ha) were recorded **Emamectin Benzoate** @ **250 gm/ha** while in Farmer Practice 291.20 q/ha.

Technology	No. of	Yield	Infected	Net return	BC ratio
assessed/Refined	trials	(q/ha)	fruit (%)	Rs./ha	
T ₁ F P- Cypermethrin 10EC @750 ml/ha T ₂ - Emamectin Benzoate @ 250 gm/ha	03	291.20 362.58	26.29 9.10	189457.00 260317.00	2.86 3.55

Table – Assessment of high yielding variety of Onion

Recommendations : Use of Emamectin Benzoate against fruit borer gave 24.52% more yield as compare to FP. It is highly effective against fruit borer .

Farmers Reaction : It is good insecticide for fruit borer

OFT -3 Problem definition: Low productivity & poor quality of growing onion.

Technology Assessed or Refined : Varietal assessment of HYV "Bhima Kiran".

An On Farm Trial was conducted in sandy loam soil under irrigated conditions for the assessment of high yielding variety "Bhima Kiran" at three locations in Pearl Millet – Potato-Onion cropping system during Zaid 2020. Maximum yield (291 q/ha) were recorded with the variety "Bhima Kiran" while in Farmer Pracice (A.L.R.) 258 q/ha. Uniform neckfall were also recorded in "Bhima Kiran"

Table - Assessment of high yielding variety of Onion

Technology assessed/Refined	No. of trials	Production (q/ha)	Net return Rs./ha	BC ratio
T ₁ F P-Agrifound Light Red	03	258.00	826200.00	5.59
T ₂ -Bhima Kiran		291.00	954900.00	6.30

Date of Transplanting -03-09 Feb. 2020

Date of Harvesting – 04-09 June 2020

Recommendation:

- 1. The "Bhima Kiran" variety gave maximum yield (291 q/ha) followed by farmer practice (ALR) 258 q/ha.
- 2. Highest net return (Rs. 954900) was recorded with Bhima Kiran.
- 3. Uniform neckfall was also observed in Bhima Kiran.

Farmer's Reaction :

- 1. Only 125-135 days taken to attain bulb maturity.
- 2. Bulbs attains immediate light red colour after harvest.
- 3. Very less double bulbs and bolters were recorded in Bhima Kiran.
- 4. Fetches good market price due to attractive bulb colour
- 5. Very good bulb storability (upto 5 months)

LIVE STOCK

OFT – 4

Problem definition: Higher incidences of repeat breeding in Buffaloes.

Technology Assessed: UMMB feeding to control repeat breeding in buffaloes.

The trials were conducted during Dec. 2019 (03 trials in Rabi Season) on 03 repeat breeders buffaloes (buffaloes show oestrus but not conceive even after 4-5 oestrous) at 03 locations village wise, to evaluate the remedial measures for curing repeat breeding. In treatment one i.e.T1 which is farmers practice (as usual feeding of choker & common salt normally), In the treatment T2 i.e. feeding of UMMB (feeding/licking of UMMB @ 2 Kg Block for 7-8 days/animal up to 90 days). Each and every animals should be free from ecto and endo parasites using ivermectin injection @ 01 ml for 50 kg body weight.

Table - Effect of UMMB feeding / licking in cure/minimize the incidence of repeat breeding(RABI 2019-20)

Technology Option	No.of	Repeat Breeding (Buffaloes)		
	uriais	Number	%	
T_1 -Farmer's practice (Use of choker and common salt)		05	100	
T ₂ - Use of Dewormer (Ivermectin inj.) + UMMB feeding (Licking)@2 kg each- 4 brick/ month/animal for three month feeding	3	01	33 (Rate of Success is 67%)	

OFT-5

Problem definition: Higher incidences of post-calving anoestrous

Technology Assessed: Evaluation of clinical and non-clinical treatment for post-calving anoestrous in Buffaloes.

The trials were conducted during Dec. 2019 (03 trials in Kharif Season) on 03 repeat breeders buffaloes (buffaloes did not show oestrus between second to fourth lactation after 3-4 months of calving) at three locations village wise, to evaluate the remedial measures for curing post calving anoestrus. In treatment one i.e.T1 which is farmers practice (feeding of choker & common salt), Even single buffalo did not responded or conceived. In the treatment T2 i.e. nonclinical remedies (Vetmate (Gonadotrophic hormone) inj 2 ml (72 hrs before AI) and feeding of minerals mixture@ 50gm/day/animal up to 45 days) three buffalo responded. Each and every animals should be free from ecto and endo parasites using ivermectin injection @ 01 ml for 50 kg body weight.

Table - Effect of minerals mixture+ Vetmate cure/minimize the post-calving anoestrous (RABI 2019-20)

Technology Option	No.of	Post calving anoestrous (Buffaloes)		
	uriais	Number	%	
T 1 -Farmer's practice (Use of choker and		03	100	
common salt)				
T2- Use of Vetmate (Gonadotrophic hormone) inj		0	(Rate of Success is	
2 ml (72 hrs before AI) after 45 days of calving +	3		100%)	
Mineral mixture supplementation @ 50 g/day				
/animal for 45 days				

OFT – 6

Problem definition: Higher incidences of post-calving anoestrous

Technology Assessed: Evaluation of clinical and non-clinical treatment for post-calving anoestrous in Buffaloes.

The trials were conducted during June 2020 (03 trials in Kharif Season) on 03 repeat breeders buffaloes (buffaloes did not show oestrus between second to fourth lactation after 3-4 months of calving) at three locations village wise, to evaluate the remedial measures for curing post calving anoestrus. In treatment one i.e.T1 which is farmers practice (feeding of choker & common salt), Even single buffalo did not responded or conceived. In the treatment T2 i.e. nonclinical remedies (Vetmate (Gonadotrophic hormone) inj 2 ml (72 hrs before AI) and feeding of minerals mixture@ 50gm/day/animal up to 45 days) two buffalo responded. Each and every animals should be free from ecto and endo parasites using ivermectin injection @ 01 ml for 50 kg body weight.

Table - Effect of minerals mixture+ Vetmate cure/minimize the post-calving anoestrous (KHARIF 2020)

Technology Option	No.of	Post calving anoestrous (Buffaloes)		
	uriais	Number	%	
T 1 -Farmer's practice (Use of choker and common salt)		03	100	
T2- Use of Vetmate (Gonadotrophic hormone) inj 2 ml (72 hrs before AI) after 45 days of calving + Mineral mixture supplementation @ 50 g/day /animal for 45 days	3	01	(Rate of Success is 67%)	

Recommendation : Present trial revealed that in T1 the conception rate was 0%, in T2 (clinical) 100% and 67 % respectively responded & conceived.

Farmers Reaction :

- 1. The A.H. Deptt. should organize regular camps in the villages to tackle anoestrous problem.
- 2. The mineral deficiency and poor nutrition is a major problem among animals due to imbalance nutrition/feeding application in buffaloes.
- 3. The anoestrous problem is also due to lack of diversity in feed &fodder and lack of pasture.

OFT – 7

Problem definition: Control of repeat breading

Technology Assessed: Assessment of clinical and non-clinical remedies in controlling repeat breeding

The trials were conducted during Dec. 2019 (05 trials in Rabi Season) on 05 repeat breeders buffaloes (buffaloes did not show oestrus between second to fourth lactation after 3-4 months of calving) at three locations village wise, to evaluate the remedial measures for curing repeat breading. In treatment one i.e.T1 which is farmers practice (feeding of choker & common salt),

Even single buffalo did not responded or conceived. In the treatment T2 i.e. Use of Dewormer (10 ml ivermectin inj.)/animal & Receptal inj 5ml (72-96 hrs before Al) + Mineral mixture supplementation @ 50 g/day /animal for 45 days three buffalo responded. Each and every animals should be free from ecto and endo parasites using ivermectin injection @ 01 ml for 50 kg body weight.

Technology Option	No.of	Post calving anoestrous (Buffaloes)		
	trials	Number	%	
T 1 -Farmer's practice (Use of choker and common salt)		05 (Repeat)	100	
T2- Use of Dewormer (10 ml ivermectin inj.)/animal & Receptal inj 5ml (72-96 hrs before AI) + Mineral mixture supplementation @ 50 g/day /animal for 45 days	5	01 (Repeat)	(Rate of Success is 80%)	

Interference & Feed back	Use of concentrate @2.5 kg/day/animal & mineral mixture @ 50g/day/animal up to 45 days along with Inj. Receptal 5ml (72-96 hrs before Al) resulted in better conception (100%) as compared to farmers practice.
Farmers Reaction	Farmers are ready to accept this technology in the area.

OFT – 8

Problem definition: Control of repeat breading

Technology Assessed: Assessment of clinical and non-clinical remedies in controlling repeat breeding

The trials were conducted during July 2020 (05 trials in Kharif Season) on 05 repeat breeders buffaloes (buffaloes did not show oestrus between second to fourth lactation after 3-4 months of calving) at three locations village wise, to evaluate the remedial measures for curing repeat breading. In treatment one i.e.T1 which is farmers practice (feeding of choker & common salt), Even single buffalo did not responded or conceived. In the treatment T2 i.e. **Use of Dewormer** (10 ml ivermectin inj.)/animal & Receptal inj 5ml (72-96 hrs before AI) + Mineral mixture supplementation @ 50 g/day /animal for 45 days three buffalo responded. Each and every animals should be free from ecto and endo parasites using ivermectin injection @ 01 ml for 50 kg body weight.

Technology Option	No.of	Post calving anoestrous (Buffaloes)		
	trials	Number	%	
T 1 -Farmer's practice (Use of choker and common salt)		05 (Repeat)	100	
T2- Use of Dewormer (10 ml ivermectin inj.)/animal & Receptal inj 5ml (72-96 hrs before AI) + Mineral mixture supplementation @ 50 g/day /animal for 45 days	5	02 (Repeat)	(Rate of Success is 60%)	

Interference & Feed back	Use of concentrate @2.5 kg/day/animal & mineral mixture @ 50g/day/animal up to 45 days along with Inj. Receptal 5ml (72-96 hrs before Al) resulted in better conception (100%) as compared to farmers practice.
Farmers Reaction	Farmers are ready to accept this technology in the area.

OFT – 09

Problem definition: Poor socio-economic status and malnutrition Technology Assessed: Enhancing socio-economic status by rearing of backyard poultry

The trials were conducted during Rabi 2019-20 (03 trials in Kharif Season) at three locations village wise. In treatment one i.e.T1 which is farmers practice (local breed), In the treatment T2 i.e. **Use of dual purpose breed (CARI- NIRBHIK).**

Treatments	No. of Hens	No. of eggs	% change in Yield	Net Income (Rs)	B:C ratio
T ₁	54	54 x 89 = 4806	-	4806 x 5= 24030	1:1.20
T ₂	54	54 X 152 = 8208	41.44 (egg production)	8208 x 5 = 41040	1:2.00

Interferance & Feed back	Excellent Results and ready to accept improved breed of poultry (CARI_NIRBHIK)
Farmers Reaction	Accepted so many farmers

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.N.	Crop/ Enterpr ise	Themati c 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/ Animal s
YEAR	R 2019						
1	Paddy	INM	Foliar spray of micronutrient	Disease free crop, good yield, Net income increased upto 38.2%	16	26	15
2	Bitter gourd	IPM	Pheromone trap against fruit fly	It is highly effective against fruit fly management in cucurbits	10	18	19
3	Paddy	IPM	Use of Buprofezin 25% against BPH	Effective and safer technology for management of Yellow stem borer	06	10	10
4	Potato	IDM	Metalaxyl 8 % + Mencozeb 64 % against late blight	Effective and excellent fungicide against late blight	12	31	38
5	Cabbage	IPM	Emamectin Benzoate against DBM	Highly effective insecticide for the management of DBM	06	14	16
6	Cauliflower	Varietal evaluation	Use of improved var. Sabour Agrim	White curd colour, better yield and uniform maturity	08	14	14
7	Tomato	INM	Foliar spray of micronutrient	Use of ZN, B, Cu, Fe 01 gm/lt each increase yield and keeping quality of fruits	07	15	15

b. Details of FLDs implemented during **2020** (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

S. N.	Crop	Thematic area	Tech. Demo.	Season and Area (ha) year		No. of farmers/ demonstration			Reasons for shortfall in achievement	
					Prop.	Actual	SC/ST	Others	Total	
1	Chilli	IPM	Emamectin Benzoate against DBM	Rabi 19-20	4.00	4.00	04	06	10	
2	Potato	IDM	Metalaxyl 8 % + Mencozeb 64 % against late blight	Rabi 19-20	2.00	2.00	01	09	10	
3	Paddy	IPM	Use of Buprofezin 25% against BPH	Kharif 20	4.00	4.00	08	02	10	
4	Cucubits	Disease management	Use of Pheromontrap	Kharif 20	2.00	2.00	04	06	10	
5	Chilli	Varietal evaluation	Use of improved var. HYVEG078	Kharif 20	1.00	1.00	-	15	15	

Details of farming situation

Crop	Season	Farming	Soil	Sta	tus of	Soil	Previous	Sowing	Harvest	Seasonal	No. of rainy
		situation	type	Ν	Р	Κ	crop	date/TSP	date	rainfall	days
Chilli	Rabi 19-20	Irrigated	Sandy loam	L	М	М	Wheat	18.11.19	28.01.20	58 mm	07
Potato	Rabi 19-20	Irrigated	Sandy loam	L	М	М	Mustard	22.10.19	07.03.20	58 mm	07
Paddy	Kharif 20	Irrigated	Sandy	L	М	L	Maize	10.07.20	28.10.20	452 mm	07
Cucubits	Kharif 20	Irrigated	Sandy	L	М	L	Maize	14.06.20	02.09.20	452 mm	26
Chilli	Kharif 20	Irrigated	Sandy	L	М	L	Cucumber	13.07.20	25.10.20	452 mm	26

Technical Feedback

S.N.	Crop	Feedback
1	Chilli	Highly effective insecticide for the management of DBM
2	Potato	Effective and excellent fungicide against late blight
3	Paddy	Use of Buprofezin against BPH gave 20.95% more yield
4	Cucubits	Effective and safer technology for management of fruit fly
5	Chilli	Highly productive variety

Farmers reaction –

S.N.	Сгор	Feedback
1	Chilli	Highly effective insecticide
2	Potato	The use of metalaxyl 8 % + Mancozeb 64% is effective to control the late
		blight in potato
3	Paddy	It is good insecticide for the management of BPH
4	Cucubits	It is effective technology against fruit fly
5	Chilli	Highly productive variety

Extension and Training activities under FLD

S.N.	Activity	No. of activities organized	Date	No. of participants	Remark
1	Field days	02	27.09.20 21.02.20	38 35	
2	Farmers Training	05	06.07.20 06.09.20 12.11.20	20 20 20	

Performance of FLD

	Thematic	Technology		No. of	Area		Yield (q/ha)		%
Crop	Area	demonstrated	Variety	Farmers	(ha)					Increase
							Demo			in yielu
						High	Low	Average	Check	
Chilli	IPM	Emamectin	HYVEG-	10	4.00	355.20	343.67	349.05	278.23	25.48
		Benzoate against	078							
		DBM								
Potato	IPM	Cymoxinel 8 %	K	20	4.00	364.15	335.28	354.06	273.54	32.06
		+ Mancozeb 64	Chipsona- I							
		% against late								
		blight								
Paddy	IDM	Use of	Pusa B1	10	4.00	45.13	38.18	40.75	37 34	25.08
		Buprofezin 25%				45.15	50.10	40.75	52.54	23.90
		against BPH								
Cucubits	IPM	Use of	Sungrow-	10	2.00	406.16	367.55	389.39	314.02	24.04
		Pheromone trap	165							

Economic Performance of FLD

Сгор	*Eco	nomics of de	monstration (I	*Economics of check (Rs./ha)				
	GrossGrossNet**CostReturnReturnBCR				Gross Cost	Gross Return	Net Return	** BCR
Chilli	76750	520996	444889	5.46	76300	417796	341496	4.38
Potato	67653	174327	106675	2.58	66872	132041	65170	1.97
Paddy	31600	101865	70265	2.22	31340	80850	49510	1.58
Cucubits	63200	194695	131495	3.08	61600	157009	95409	2.55

Performance of Cluster Frontline demonstrations

S.N	Crop	Thematic area	Tech. Demo.	Season and year	Area (ha)		N d	Reasons for shortfall in achievem ent		
					Prop.	Actual	SC/ST	Others	Total	
1	Field Pea	ICM	Use of improved var	Rabi 19-20	10	10	05	-	20	
	I Cu		IPFD1012	17 20						
2	Lentil	ICM	Use of improved var. PL-8	Rabi 19-20	10	10	04	21	25	
3	Urd	ICM	Use of improved var. MASH-479	Kharif 20	10	10	15	10	25	

Frontline demonstration on pulse crops

		Technology						% Increase		
Crop	Thematic A rea		Variety	NO. Of Farmers	Area (ba)		Demo			
	Aica	uemonstrateu		rarmers	(114)	High	Low	Average	Спеск	in yield
Field Pea	ICM	Use of improved var.	IPFD1012	25	10	20.72	14.24	18.17	16.01	13.53
Lentil	ICM	Use of improved var.	PL-8	25	10	14.44	10.11	12.05	10.13	18.90
Urd	ICM	Use of improved var.	MASH-479	25	10	9.50	7.50	8.60	6.92	24.24

Economic Performance of Pulse CFLD

Сгор	*Econ	omics of dem	onstration (R	*Economics of check (Rs./ha)				
	Gross	Gross	Net	**	Gross	Gross	Net	**
	Cost	Return	Return	BCR	Cost	Return	Return	BCR
Field Pea	30000	65416	34754	2.18	29000	57619	28619	1.79
Lentil	26500	57587	31357	2.18	25800	48636	22836	1.89
Urd	29760	51600	21840	1.73	29000	41532	12532	1.43

Details of farming situation

Сгор	Season	Farming situation	Soil type	Stat	tus of	Soil K	Previous crop	Sowing date	Harvest date	Seasonal rainfall	No. of rainy days
Field Pea	Rabi 19-20	Irrigated	Sandy loam	L	M	L	Bajra	24.11.18	27.03.19	58 mm	07
Lentil	Rabi 19-20	Irrigated	Sandy loam	L	М	L	Bajra	20.11.18	28.03.19	58 mm	07
Urd	Kharif 20	Irrigated	Sandy loam	L	М	L	Wheat	24.07.19	10.10.19	452 mm	26

Technical Feedback

SN.	Сгор	Feedback
1	Field Pea	Use of improved variety and integrated crop management helps in growth & development of crop resulted in higher production of crop.
2	Lentil	Use of improved variety and integrated crop management helps in growth & development of crop resulted in higher production of crop & better profit.
	Urd	Use of improved variety and integrated crop management helps in growth & development of crop resulted in higher production of crop.

Farmers reaction –

SN.	Сгор	Feedback
1	Field Pea	Use of improved variety resulted in higher yield of the crop and more income to the farmers.
2	Lentil	Use of improved variety resulted in higher yield of the crop and more income to the farmers.
3	Urd	Use of improved variety resulted in higher yield of the crop and more income to the farmers.

Extension and Training activities under FLD

SN.	Activity	No. of activities organized	Date	No. of participants	Remark
1	Field days	04	21.11.19 13.12.19 22.12.18	20 25 18	
2	Farmers Training	04	16.11.18 17.11.18 18.07.20	20 20 20	

Details of Enterprises (Live Stock) FLD on Livestock RABI- 2019-20

Category	Thematic area	Name of the technology	No. of Farmer	No.of Units (Animal/	Milk Produ Body wei	ction lt/day/ ght (gm)	% Increase	
		demonstrated		Poultry/ Birds, etc)	Demo.	F.P.		
Buffaloes	Disease	Use of	05	05	4.85-	4.55-	Milk production	
	Management	Ivermectin Inj.			5.10	4.20	Ivermectin Inj.	
Buffaloes	Nutrition /Feed	Use of calcium	05	05	4.95-	4.60-	Milk production	
	management	+ Phosphorus and vit. D_3			5.55	4.20	increased 21.80%	
Chicken	Nutrition /Feed	Use of vitamin	05	05	2170 gm	2000 gm	Body weight improved	
(Broiler)	management	& mineral mixture			weight	weight	reduced 3.65 %	
		liniture			1.15% mortality	4.80% mortality		

Category	Other	parameter	Economics of demonstration (Rs.)				Economics of check (Rs.)				
	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)	
Buffaloes	5.10 lt	4.20 lt	89.5/day	149.6 /day	63.1/day	1.70	88/day	131.6 /day	46.6/day	1.53	
Buffaloes	5.55 lt	4.20 lt	96/day	161.9/ day	73.9/day	1.76	93/day	131.60 /day	38.6/day	1.42	
Chicken (Broiler)	2170 gm B.W	2000 gm B.W.	3.10/day	4.10/day	1.0/day	1.16	2.80/day	3.15/day	0.35/day	1.13	

a. Results of FLDs implemented during the year (Kharif 2020)

Category	Thematic area	Name of the	No. of	No.of Units	Milk Produ	uction lt/day	Milk Production lt/day
		technology demonstrated	Farmer	(Animal/ Poultry/ Birds, etc)	Demo.	F.P.	
Buffaloes	Disease	Use of	05	05	4.55-5.00	4.60-4.10	Milk production
	Management	Ivrmectin			lt	lt	increased
		Inj.					20.75% by
							Ivermectin Inj.
Buffaloes	Nutrition/Feed	Use of	05	05	4.82-5.50	4.55-4.30	Milk production
	management	calcicum +			lt	lt	increased
		Phosphorus					19.59%
		and vit. D_3					
Chicken	Nutrition /Feed	Use of	05	05	2300 gm	2100 gm	Body weight
(Broiler)	management	vitamin &			Body	Body	improved 8.70
		mineral			weight	weight	% & mortality
		mixture			1.77 %	8.00%	reduced 6.23 %
					mortality	mortality	

Category	Other pa	rameter	Economics of demonstration (Rs.) Economics of (Rs.)					cs of check Rs.)	of check .)		
	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)	
Buffaloes	5.00 lt	4.00 lt	110/day	175/day	65/day	1.59	100/day	140day	40/day	1.40	
Buffaloes	5.50 lt	5.00 lt	130/day	185/day	55/day	1.42	115/day	130/day	15/day	1.30	
Chicken (Broiler)	2300 gm Body weight 1.77 % mortality	2100 gm Body weight 8.0% mortality	3.50/day	4.10/day	0.60/day	1.71	2.75/day	3.10/day	0.35/day	1.31	

Technical Feedback

- 1. Use of Ivermectin Injection is much effective and safe to the animals because it works for endo-ecto parasite both and farmers are ready to accept this techniques to remove endo-ecto parasite from the animal body.
- 2. After using Calcium + phosphorus and Vit. D_3 , the milk production increased by 19.28 % and its also increases lactation length and reduces infertility in animals.
- 3. Using of vitamins and minerals in broiler chicken, its increased body weight 8.50 % and reduces mortality 3.65 % and also solving the leg deformities in the chicken.

Farmers reaction

1. As per farmers reactions all the above techniques are very useful for the farmers to improve yield as well as economic returns.

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

Technology Hybrid No. of Area			%	Economics of demonstration (Rs./ha)									
Crop	demonstrated	Variety	Farmers	(ha)		Demo		Chash	Increase	Gross	Gross	Net	BCR
		-		. ,	High	Low	Average	Спеск	in yield	Cost	Return	Return	(R/C)
Oilseed cro	p												
Pulse crop													1
Cereal crop)												
Vegetable of	rop												
Chilli	IPM	HYVVGE- 078	10	4.0	355.20	343.67	349.05	278.23	25.48	76750	520996	444889	5.46
Potato	Late blight	K Chinsona-	20	4.0	364 15	335.28	354.06	273 54	32.06	67653	174327	106675	2.58
	management	1	20	4.0	501.15	555.20	55 1.00	275.51	52.00	07055	171327	100075	2.50
Cucurbit	IPM	Sangrow- 165	10	2.0	406.16	367.55	389.39	314.02	24.04	63200	194695	131495	3.08
Fruit crop	·												

III. Training Programme (Jan 2020 to December 2020)

Farmers' Training including sponsored training programmes

A) On Campus

	No. of		No. of participants							
Thematic Area			Others			SC/ST*		Grand		
	courses	Male	Female	Total	Male	Female	Total	Total		
A) Farmers & Farm Won	nen									
Plant Protection										
IPM	02	40	-	40				40		
IDM	01	20	-	20				20		
Animal Science										
Feed management	02	40	-	40				40		
Disease management	01	20	-	20				20		
Horticulture										
Production Management	02	40	-	40				40		
technology of vegetable										
Production Management	01	20	-	20				20		
technology on Medicinal										
Plant										
Total	09	180	-	180				180		

Off Campus

	No of	No. of participants								
Thematic Area			Others			SC/ST		Grand		
	courses	Male	Female	Total	Male	Female	Total	Total		
B) Farmers & Farm										
Women										
A) Farmers & Farm Wo	men									
Plant Protection										
IPM	04	80	-	80				80		
IDM	05	100	-	100				100		
Bi-control of pests and	02	40	-	40				40		
diseases										
Animal Science										
Feed management	02	40	-	40				40		
Dairy management	02	40	-	40				40		
Management of farm	02	40	-	40				40		
animals										
Disease management	04	80	-	80				80		
Horticulture										
Production Management	01	20	-	20				20		
technology of flowers										
	01	20		20				20		
Production Management	01	20	-	20				20		
technology of MAP										
Production Management	02	40		40				40		
technology of vegetable	02	40	-	40				40		
technology of vegetable										
Packaging and transport	01	20	_	20				20		
i denaging and transport	01	20		20				20		
Management and	01	20	-	20				20		
aftercare in fruit										
orchards										
Nursery raising	03	60	_	60				60		
Exotic vegetables	01	20	-	20				20		
Off season vegetables	01	20	-	20				20		
TOTAL	32	640	-	640				640		

B. RURAL YOUTH

		No. of participants									
Thomatic Area	No. of		Others			SC/ST		Grand			
Thematic Area	courses	Mala	Femal	Total	Mala	Femal	Total	Total			
		whate	e	Total	Wale	e	Total	Total			
Plant Protection											
Bee Keeping	03	11	-	11	19	-	19	30			
Mushroom Production	01	05	-	05	05	-	05	10			
Animal Science											
Dairying	02	20	-	20	-	-	-	20			
Poultry production	01	10	-	10	-	-	-	10			
Horticulture											
Nursery mgt. of horticultural	01	06	-	06	04	-	04	10			
crops											
Protected cultivation	02	16	-	16	04	-	04	20			
Commercial Flower	01	08	-	08	02	-	02	10			
Production											
TOTAL	11	76	-	76	34	-	34	110			

C. EXTENSION FUNCTIONARIES

	No of		No. of participants									
Thematic Area			Others			SC/ST		Grand				
	courses	Male	Female	Total	Male	Female	Total	Total				
Plant Protection												
Mushroom Production	01	10	-	10	-	-	-	10				
Bio Control	01	08		08	02	-	02	10				
Animal Science												
Management in farm	03	25	-	25	05	-	05	30				
animals												
Horticulture					-	-	-					
Micro irrigation system	01	06	-	06	04	-	04	10				
Low Volume and high	01	06	-	06	04	-	04					
value vegetable												
production												
Total	07	55	-	55	15	-	15	70				

CONSOLIDATED ON & OFF

A)									
Thematic Area	No. of			No.	of partici	pants			
	courses		Others			Grand			
		Male	Female	Total	Male	Female	Total	Total	
A) Farmers & Farm Wo	omen								
Plant Protection									
IPM	06	120	-	120				120	
IDM	06	120	-	120				120	
Bi-control of pests	02	40	-	40				40	
and diseases									
Animal Science									

Feed management	05	100	-	100		100
Dairy management	01	20	-	20		20
Disease management	01	20	-	20		20
Dairy management	01	20	-	20		20
Management of farm	02	40	-	40		40
animals						
Disease management	03	60	-	60		60
Horticulture						
Production	01	20	-	20		20
Management						
technology of flowers						
Production	01	20	-	20		20
Management						
technology of MAP						
Production	01	20	-	20		20
Management						
technology of vegetable						
Packaging and transport	01	20	-	20		20
Management and	01	20	-	20		20
aftercare in fruit						
orchards						
Nursery raising	02	40	-	40		40
Production	02	40	-	40		40
Management						
technology of fruit						
Mulching in fruits	01	20	-	20		20
Water management	01	20	-	20		20
Exotic vegetables	01	20	-	20		20
Off season vegetables	01	20	-	20		20
Machan cultivation	01	20	-	20		20
Total	41	820	-	820		820

B. RURAL YOUTH

		No. of participants							
Thematic Area	No. of		Others			SC/ST		Grand	
Thematic Area	courses	Mala	Femal	Total	Mala	Femal	Total	Total	
		Wate	e	Total	Wale	e	Total	Total	
Plant Protection									
Bee Keeping	03	11	-	11	19	-	19	30	
Mushroom Production	01	05	-	05	05	-	05	10	
Animal Science									
Dairying	02	20	-	20	-	-	-	20	
Poultry production	01	10	-	10	-	-	-	10	
Horticulture									
Nursery mgt. of horticultural	01	06	-	06	04	-	04	10	
crops									
Protected cultivation	02	16	-	16	04	-	04	20	
Commercial Flower	01	08	-	08	02	-	02	10	
Production									

TOTAL	4.4				24		24	110
TOTAL	11	76	-	76	34	-	34	110

C. EXTENSION FUNCTIONARIES

	No. of			No.	of partic	ipants		
Thematic Area		Others			SC/ST			Grand
	courses	Male	Female	Total	Male	Female	Total	Total
Plant Protection								
Mushroom Production	01	10	-	10	-	-	-	10
Bio Control	01	08		08	02	-	02	10
Animal Science								
Management in farm	03	25	-	25	05	-	05	30
animals								
Horticulture					-	-	-	
Micro irrigation system	01	06	-	06	04	-	04	10
Low Volume and high	01	06	-	06	04	-	04	
value vegetable								
production								
Total	07	55	-	55	15	-	15	70

Table. Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
Area of training			General			SC/ST			Grand Total	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
~										
Crop production and										
management										
Production technology of crops	06	300	-	300	-	-	-	300	-	300
Production technology of	01	50	-	50	-	-	-	50	-	50
vegetable										
Use of weedicide in Pulses and	01	50	-	50	-	-	-	50	-	50
oilseeds crops										
Production technology of fruit	01	50	-	50	-	-	-	50	-	50
Commercial production of										
vegetables										
Production and value addition										
Fruit Plants	02	50	-	50	-	-	-	50	-	50
Ornamental plants	02	50	-	50	-	-	-	50	-	50
Spices crops	02	50	-	50	-	-	-	50	-	50
Soil health and fertility										
management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total										
Post harvest technology and										
value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and										

implements						
Others (pl. specify)						
Total						
Livestock and fisheries						
Livestock production and						
management						
Animal Nutrition Management						
Animal Disease Management						
Others (pl. specify)						
Total						
Home Science						
Household nutritional security						
Drudgery reduction of women						
Others (pl. specify)						
Total						
Agricultural Extension						
Capacity Building and Group						
Dynamics						
Others (pl. specify)						
Total						
GRAND TOTAL	15					600

IV . Extension Programme

Activities	No. of	No. of farmers	No. of Extension	TOTAL
Activities	programmes	110. Of farmers	Personnel	
Advisory services	562	562	-	562
Diagnostic visits	98	186	-	186
Field Harvest day	01	72	-	72
Group discussions	06	256	-	256
Kisan gosthi	22	1822	-	1822
Film Show	22	1206	-	1206
Awareness programme under	05	435		435
CRM				
Scientists' visit to farmers	112	384	-	384
field				
Farmers visit to KVK	602	602	-	602
Special day celebration	07	364	-	364
Mobilization of School and	05	508	-	508
School Students				
Mobilization of Degree	01	125	-	125
College Students				
Five days Training under	02	50	-	50
CRM				
World Honey Bee Day	01	34	-	34
Krashak Kalyan Diwas	01	84	-	84
World Soil Health day	01	26	-	26
Total	1448	6716		6716

Details of other extension programmes

realized thread the second sec						
Particulars	Number					
Electronic media	-					
Extension literature	06					
News paper coverage	41					
Technical articles	-					
Technical bulletins	03					
Technical reports	05					
Radio talks	02					
TV talks	04					
Total	61					

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies		•	
	Lectures organised			
	Exhibition			
	Film show			
	Fair			
	Farm Visit			
	Diagnostic Practicals			
	Distribution of Literature (No.)			
	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			

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

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers	No. of KVKs
Cereals	Wheat 19-20	HD 3086	FS	397.00	509500	NSC	
	Urd	PU-31	FS	14.10		NSC	
Total				411.10			

Production of seeds/Commercial by the KVKs

Production of planting materials by the KVKs

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers	No. of KVKs
Ornamental plants							01
Fodder	Napier grass			4000	-	-	
Seasonal Flowers Seedlings	Calendula Nastertium Holyhock Petunia			7500	-	Distributed to Primary schools & BRCs &	

	Dogflower Ice plant Sweet William Sweet Allysum Dimorphotheca Conflower Paper flower Cineraria Mari gold				CDO office and other line deptt.	
Bael		Commercial		-	Auction	
Aonla		Commercial		25500.00	Auction	
Total			28500	25500.00		

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)	No. of KVKs
Soil & water					

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
Badaun	09.11.2020

IX. NEWSLETTER/MAGAZINE

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

X. PUBLICATIONS

Category	Number
Research Paper	02
Technical bulletins	
Technical reports	05
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 Visit by							
			(No.)	(No.)			

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

Introduction of alternate crops/varieties

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

Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses	30.00	75
Cereals		
Vegetable crops		
Tuber crops		
Total	30	75

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants
Total		

Animal health camps organised

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

Seed distribution in drought hit states

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

Large scale adoption of resource conservation technologies

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

Awareness campaign

	Meetings		Gosthies		Field d	lays	Farmers f	air	Exhibition		Film s	how
	No.	No.of	No.	No.of	No.	No.of	No.	No.of	No.	No.of	No.	No.of
		farmers		farmers		farmers		farmers		farmers		farmers
	02	50	05	435	01	72					18	435
Total												

XIII. DETAILS ON HRD ACTIVITIES

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

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
S.V.P.U.A.&T		02	40	08
Total				

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

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

XIV. CASE STUDIES (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

- a) 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
- b) 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
- c) 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

XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE (2020)

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 (Jan 2020 to Dec 2020)

S. No	Purpose of visit	Number of farmer's visited
01	Technology Information	100
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 (Jan 2020 to Dec 2020)

S. No	Information category	Number of ATICs	Total number of farmers benefitted			Cate	gory of inforn	nation		
				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 /					
06	Others pl		 			
00	specify					

D.2. Publications (Print & Electronic media) (Jan 2020 to Dec 2020)

S. No	Particulars	Number sold	Revenue generated in	Number of farmers
			Rs.	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 (Jan 2020 to Dec 2020)

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

F. Technology services provided (Jan 2020 to Dec 2020)

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 (Jan 2020 to Dec 2020)

States covered:

Number of Directorates 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)
	S.V.P.U.A&T., Meerut	Dr. S.K. Sachan						

A. Details on Directors of Extension

B. Workshops / meetings organized during Jan 2020 to Dec 2020

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

C. Visits made by DE / Officials in the Directorate to KVKs during Jan 2020 to Dec 2020

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

D. Overseeing of KVKs activities during Jan 2020 to Dec 2020

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

E. Publication on Technology inventory during Jan 2020 to Dec 2020

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

F. Technological Products provided to KVKs during Jan 2020 to Dec 2020

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	

------XXXXXXX