ANNUAL REPORT (January-August 2022)

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	56	940	180	1120
Rural youths	09	80	10	90
Extension functionaries	08	70	10	80
Total	**73**	**1090**	**200**	**1290**
Sponsored Training	16	804		804
Vocational Training	02	100		100

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	50	20.00	50
Pulses	150	60.00	150
Cereals	10	4.00	10
Vegetables	30	10.00	30
Other crops	05	0.05	05
Hybrid crops			
Total	245	94.05	245
Livestock & Fisheries	10		10
Other enterprises (Poultry)	05	2450	05
Total	15	2450	15
Grand Total	260	94.05	260

3. Technology Assessment

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
Crops	01	03	03
Livestock	02	06	06
Various enterprises	04	14	14
Total	07	23	23

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	3126	6203
Other extension activities	24	Mass
Total	**3150**	**6203**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
	Text only	32						
	Voice only	08	12	08				
	Voice & Text both							
	Total Messages	**40**	**12**	**08**				
	Total farmers Benefitted	**940**						

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.	Distributed to No. of farmers
Seed (q)	342.04	608000.00	NSC
Planting material (No.)	11200		Distt. Line deptt & basic school
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	02
2	Conferences	01
3	Meetings	08
4	Trainings for KVK officials	04
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	
13	Proceedings	
14	Award & recognition	
15	On going research projects	

DETAIL REPORT OF APR (Jan. – Dec. 2022)

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
KrishiVigyan Kendra, Ujhani Distt. – Badaun PIN – 243639		badaunkvk@gmail.com	badaun.kvk4.in

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

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

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		9412368175	sanjayento77@gmail.com

1.4 Year of sanction : **01.08.1992**

1.5 Staff Position (as on 30 Nov. 2022)

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 LEAVE**									
2	Subject Matter Specialist	Dr. Sanjay Kumar	**Officer Incharge**	Ph.D.. (Entomology)	15600-39100	98300	15.07.08	Permanent	SC	9412368175	45	sanjayento77@gmail.com
3	Subject Matter Specialist	Dr. Manish Kumar Singh	S.M.S. (Horticulture)	Ph.D. (Horticulture)	15600-39100	56100	01.07.22	Permanent	OBC	9889532398	30	manish371990@gmail.com
4	Subject Matter Specialist	Dr. Sauhard Dubey	S.M.S. (Agronomy)	Ph.D. (Agronomy)	15600-39100	56100	01.07.22	Permanent	Gen	7599006647	26	sauhardsd29@gmail.com
5	Subject Matter Specialist	Smt. Nidhi Sachan	S.M.S. (Home Science)	Ph.D. (Agronomy)	15600-39100	56100	11.07.22	Permanent	OBC	8318615870	30	nidheesachan3@gmail.com
6	Subject Matter Specialist	Dr. Raushan Kumar Singh	S.M.S. /Asstt. Prof. (Live Stock Production)	M.V.Sc.	15600-39100	56100	15.07.22	Permanent	Gen	7206347151	36	raushansingh704@gmail.com
7	Programme Assistant	Dr. Anand Prakash	Trg. Asstt. (A.V. Aids)	Ph.D. (Agril. Extn.)	9300-34800	83600	20.12.95	Permanent	OBC	9412195441	54	dranandprakash121@gmail.com
8	Computer Programmer	Sh. Ashish Agarwal	Prog. Asstt. (Computer)	B.Sc. & Diploma in computer	9300-34800	78800	16.10.99	Permanent	Other	9456868422	47	to.ashishagarwal1999@gmail.com
9	Farm Manager	Sri. Anoop Singh	Prog. Asstt.\Farm Manager	M.Sc. (Agronomy)	9300-34800	56900	30.07.07	Permanent	Other	8090969866	40	
10	Accountant / Superintendent	Sh. Alok Saxena	Office. Supdt./ Accountant	M.Com.	9300-34800	72100	6.9.2000	Permanent	Other	9411300515	50	saxenaalok72@gmail.com
11	Driver cum Mechanic	Sri. Virendra Kumar Mishra	Driver	B.A.	5200-20200	38100	01.03.08	Permanent	Gen	8859630842	46	-
12	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

Sl.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion date	Plinth area (sq.m)	Expenditure (lac)	Starting date	Plinth area (sq.m)	Status of construction
1.	Administrative building	ICAR	2001	550	29.00			Complete
2.	Farmers Hostel	ICAR	2005	300	16.43			Complete
3.	Staff Quarters (06)	ICAR	2008	2400	28.67	-		Complete
4.	Demo. unit. (02)	ICAR	2008	160	4.00	-		Complete
5.	Fencing	ICAR	2007	2000	16.43			Complete
6.	Rain water harvesting system	ICAR	2005	4000	0.33			Complete
7.	Threshing floor	ICAR	2007	300	1.00			Complete
8.	Farm godown	ICAR	2007	60	1.00			Complete
9.	Poultry unit	UPCAR	2022	167	20.00			Complete
10	Poultry unit	RKVY	2022	24	2.49			Complete
11	Azola Unit	RKVY	2022	13.45	3.47			Complete
12	Polyhouse	RKVY	2022	560	8.00			Complete
13	Vermi compost	RKVY	2022	21.40	1.12			Complete

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

Sl.No.		Date
1.	Scientific Advisory Committee	28-11-2022

S.N.	Name & Designation of Delegates	Salient Recommendations	Action taken
1	Dr. P.K.Singh Director Extn., Meerut Dr. D.K. Singh Professor, Animal Science Dr. K.G. Yadav, Assoc. Dir., Meerut Dr. D.K. Singh DAO, Badaun	Dr. P.K.Singh suggested that FLD should be planned in all three seasons accordingly, it should be focused on some recent technology, seed distribution practice should be followed by some improved practice.	Suggestion have been incorporate in Action Plan
2		Dr. P.K.Singh suggested that in OFT full details of technology should be given, brief description of variety, comparison of varieties with similar sowing time should be done	Suggestion have been incorporate in Action Plan

3	Dr. A.K. Chaubey Incharge, ZRC, Ujhani	Dr. P.K.Singh suggested that FLD and OFT selected field should be on road side.	Suggestion have been incorporate in Action Plan
4	Dr. Manoj Gupta Incharge, Plant Protection Unit, Ujhani	Dr. A.K. Chaubey suggested that there should be FLD on micronutrient application.	Suggestion have been incorporate in Action Plan
5	Sri. Swadesh Kumar Incharge, Dy. Dir. Agril.	Dr. K.G. Yadav suggested that technology should be mention on display board in technology park.	Suggestion have been incorporate in Action Plan
6	Sri. Jitendra Singh Distt. Hort. Supervisor	Dr. P.K.Singh suggested that add poultry related training in action plan	Suggestion have been incorporate in Action Plan
7	Sri. Kusam Pal Singh Incharge, Distt. Plant Protection unit.	Sri. Jitendra Singh suggested that training on floriculture to be added in action plan to increase the area of floriculture in the district.	Suggestion have been incorporate in Action Plan
8	Sri. Rajesh Pratap Singh SAC, Member	District Agriculture officer suggested that evaluation of new variety to be done in FLD.	Suggestion have been incorporate in Action Plan
9	Sri. Omkar Singh Progressive Farmer	Dr. P.K.Singh suggested that there should be proven technology from SAUs or ICAR in OFT and FLD programme.	Suggestion have been incorporate in Action Plan
10		Dr. P.K.Singh suggested that there should be add tailoring and stitching related training in action plan 2023	Suggestion have been incorporate in Action Plan
11		Dr. D.K. Singh suggested that in OFT only provide Vetmate + Dewormer in place of Vetmate + Minaral mixture + dewormer	Suggestion have been incorporate in Action Plan
12		Dr. D.K. Singh suggested that improvise training title of ON/OFF campus training	Suggestion have been incorporate in Action Plan

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 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.

2.3 **Soil types**

Sl. 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	Crop	Area (ha)	Production (mt)	Productivity (Qtl /ha)
A	**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
B	**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 Sadar Sahaswan	Ambiapur Ujhani Dahagwan	Hasupur Baheria Prathvi Nagla, Mehona, Hajratganj, Bhawanipur, Baramaldev Chatuiya Dhel, Malpur tatera, Bhoyas	Bajra, Maize, Jower, Wheat, Potato, Mustard, Barly, Toria, Sugarcane, Paddy, Gram, Vegetables, Mentha, Poultry, Buffalo , Bee keeping etc.	Productivity of paddy, wheat, Maize, Bajra, Lentil etc. in general are very low. The main reason of low yield is imbalance use of fertilizer and lack of high yielding varieties Sever infestation of stem borer, Brown Plant Hopper and Blast disease in rice. Fruit borer problem in Tomato, Chilies and Capsicum and nematode problem in cucurbits and tomato and chilies. Wilt in lentil. Weed infestation in various crops. Use of local varieties of different crops by the farmer. Pest problems in vegetable crops. Poor milk production and infertility in animals. Lack of quality planting material in horticultural crops. Wilt infestation in Guava orchards. Drudgery in farm activities.	Integrated nutrient management. High yielding varieties Post harvest management. Nutrition and health. Employment generation in Rural areas. Bio pesticide in vegetables/ cereals. Establishment of nurseries. Diversification in Agriculture. Use of improved varieties. 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.
10.	Nutrition and health of farm families
11.	Preservation of fruit and vegetable
12.	Rural Craft

2.9 Intervention/ Programmes for the doubling the farmers income – during 2022 **Demonstrations**

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

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

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

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

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

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

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

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

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

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

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

Note- Same format may be used for OFT.

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
07	07	23	23	80	94.05	240	260

Training					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	68	56	1360	1120	1000	3150	Mass	6688
Rural youth	16	09	160	90				
Extension Functionaries	16	08	160	80				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	342.04	Seed supplied to NSC	10000	11200	-

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	Wheat	Use of improved variety PBW-222	03	03
Varietal Evaluation	Onion	Use of improved variety Bhima Kiran	03	03
Total			**12**	**12**

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
Dairy Management	Buffalo	Use of supplement feed and Vetmate inj. 02 ml / animal (72 hr before A.I. after 45 days of Calving)	03	03
Disease /Feed Management	Buffalo	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	03	03
Poor socio-economic status and malnutrition	Poultry	Use of dual purpose breed (CARI- NIRBHIK)	03	03
Total			**09**	**09**

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 cropsby 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 EC @ 500 ml/ha at three locations in Maize-Capsicum cropping system during Rabi 2021-22. Maximum yield (389.76 q/ha) were recorded Cypermethrin 10EC @750 ml/ha" while in Farmer Practice 310.64 q/ha.

Table – Field evaluation of Indoxacarb 14.5 EC @ 500 ml/ha

Technology assessed/Refined	**No. of trials**	**Yield (q/ha)**	**Infected fruit (%)**	**Net return Rs./ha**	**BC ratio**
T_1 F P-Cypermethrin 10EC @750 ml/ha	**03**	**310.64**	**27.31**	**270030.00**	**3.20**
T_2 - Indoxacarb 14.5 EC @ 500 ml/ha		**383.94**	**6.25**	**188779.00**	**2.55**

Recommendations :Use of Indoxacarb **against fruit borer gave 25.00% 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 **Spinetoram 11.7 SC @ 500 ml /ha** at three locations in Tomato-Maize cropping system during Rabi 2021-22. Maximum yield (395.62q/ha) were recorded Cypermethrin 10EC @750 ml/ha while in Farmer Practice 318.60 q/ha.

Table – Field evaluation of Spinetoram 11.7 SC @ 500 ml /ha

Technology assessed/Refined	**No. of trials**	**Yield (q/ha)**	**Infected fruit (%)**	**Net return Rs./ha**	**BC ratio**
T_1 F P-Cypermethrin 10EC @750 ml/ha	**03**	**318.60**	**28.72**	**173015.00**	**3.11**
T_2 - Spinetoram 11.7 SC @ 500 ml /ha		**395.62**	**8.67**	**231827.00**	**3.74**

Recommendations : Use of **Spinetoram** against fruit borer gave 24.16% more yield as compare to FP. It is highly effective against fruit borer .

Farmers Reaction : It is good insecticide for fruit borer

LIVE STOCK

OFT – 3

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 Jan. 2022 (03 trials in Rabi 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 2021-22)

Technology Option	No.of trials	Post calving anoestrous (Buffaloes)	
		Number	%
T 1 -Farmer's practice (Use of choker and common salt)	3	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		0	(Rate of Success is 100%)

OFT – 4

Problem definition: Control of repeat breading

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

The trials were conducted during Jan. 2022 (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 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 trials	Post calving anoestrous (Buffaloes)	
		Number	%
T 1 -Farmer's practice (Use of choker and common salt)	5	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		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.

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2020 and recommended for large scale adoption in the district

S.N.	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/ Animals
YEAR 2020							
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.SabourAgrim	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 **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**.)

S.N.	Crop	Thematic area	Tech. Demo.	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Prop.	Actual	SC/ST	Others	Total	
1	Chilli	IPM	Emamectin Benzoate against DBM	Rabi 21-22	4.00	4.00	10	-	10	
2	Potato	IDM	Cymoxinel 8 % + Mancozeb 64 % against late blight	Rabi 21-22	4.00	4.00	09	01	10	
3	Rice	IPM	Pymetrozine 50% EC @ 300 ml/ha	Kharif 2022	4.00	4.00	04	06	10	
4	Cucurbits	IPM	Pheromone trap @ 20/ha	Kharif 2022	2.00	2.00	03	07	10	

Details of farming situation

Crop	Season	Farming situation	Soil type	Status of Soil			Previous crop	Sowing date/TSP	Harvest date	Seasonal rainfall	No. of rainy days
				N	P	K					
Chilli	Rabi 21-22	Irrigated	Sandy loam	L	M	M	Wheat	20.11.21	29.01.22	72 mm	08
Potato	Rabi 21-22	Irrigated	Sandy loam	L	M	M	Mustard	23.10.21	09.03.22	72 mm	08
Rice	Kharif 2022	Irrigated	Sandy loam	L	M	M	Wheat	10.07.2022	04.11.22		
Cucurbits	Kharif 2022	Irrigated	Sandy loam	L	M	M	Wheat	18.03.22	22.07.22		

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	Rice	Highly effective insecticide for the management of BPH
4	Cucurbits	Very effective technology against fruit fly

Farmers reaction–

S.N.	Crop	Feedback
1	Chilli	Highly effective insecticide
2	Potato	The use of Cymoxinel 8% + Mancozeb 64 % is effective to control the late blight in potato
3	Rice	Very effective insecticide
4	Cucurbits	Pheromone traps are very effective against fruit fly management

Performance of FLD

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield
						Demo			Check	
						High	Low	Average		
Chilli	IPM	Emamectin Benzoate against DBM	HYVEG-078	10	4.00	342.78	333.68	339.50	269.05	26.21
Potato	IPM	Cymoxinel 8 % + Mancozeb 64 % against late blight	Kufari Chipsona- 1	20	4.00	365.23	342.45	353.92	280.75	26.11
Rice	IPM	Pymetrozine 50% EC @ 300 ml/ha	Pusa Basmati	10	04	39.26	36.54	37.50	31.04	20.85
Cucurbits	IPM	Pheromone trap @ 20/ha	Sangrow-165	10	02	397.58	370.89	383.92	311.24	23.38

Economic Performance of FLD

Crop	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Chilli	82250	271598	189348	3.30	80000	215243	135243	2.69
Potato	68050	212349	144299	3.12	67250	168448	101198	2.50
Rice	33000	93745	60745	1.84	32300	77608	45308	1.40
Cucurbits	63000	191960	128960	3.05	61600	155619	94019	2.53

Performance of Cluster Frontline demonstrations

S.N	Crop	Thematic area	Tech. Demo.	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Prop.	Actual	SC/ST	Others	Total	
1	Lentil	ICM	Use of improved var. PL-8	Rabi 21-22	10	10	03	22	25	

Frontline demonstration on pulse crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield
						Demo			Check	
						High	Low	Average		
Lentil	ICM	Use of improved var.	PL-8	25	10	13.26	11.23	12.07	9.74	24.05

Economic Performance of Pulse CFLD

Crop	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Lentil	25500	61557	36057	2.41	24500	51750	27250	2.11

Details of farming situation

Crop	Season	Farming situation	Soil type	Status of Soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall	No. of rainy days
				N	P	K					
Lentil	Rabi 21-22	Irrigated	Sandy loam	L	M	L	Bajra	21.11.21	29.03.22	72 mm	08

Technical Feedback

SN.	Crop	Feedback
1	Lentil	Use of improved variety and integrated crop management helps in growth & development of crop resulted in higher production of crop & better profit.

Farmers reaction–

SN.	Crop	Feedback
1	Lentil	Use of improved variety resulted in higher yield of the crop and more income to the farmers.

S.N	Crop	Thematic area	Tech. Demo.	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Prop.	Actual	SC/ST	Others	Total	
1	Mustard	ICM	Use of improved var. Pusa M-0031	Rabi 21-22	10	10	06	19	25	

Frontline demonstration on pulse crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield
						Demo			Check	
						High	Low	Average		
Mustard	ICM	Use of improved var.	Pusa M-0031	25	10	18.02	14.16	15.92	12.77	24.71

Economic Performance of Pulse CFLD

Crop	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Mustard	30700	74045	43345	2.41	27500	59382	31882	2.16

Details of farming situation

Crop	Season	Farming situation	Soil type	Status of Soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall	No. of rainy days
				N	P	K					
Mustard	Rabi 21-22	Irrigated	Sandy loam	L	M	L	Maize	21.11.21	29.03.22	72 mm	08

Technical Feedback

SN.	Crop	Feedback
1	Mustard	Use of improved variety and integrated crop management helps in growth & development of crop resulted in higher production of crop & better profit.

Farmers reaction–

SN.	Crop	Feedback
1	Mustard	Use of improved variety resulted in higher yield of the crop and more income to the farmers.

Performance of Cluster Frontline demonstrations

S.N	Crop	Thematic area	Tech. Demo.	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Prop.	Actual	SC/ST	Others	Total	
1	Sesamum	ICM	Use of improved var. GUJ-05	Kharif 2022	10	10	06	19	25	

Frontline demonstration on pulse crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield
						Demo			Check	
						High	Low	Average		
Sesamum	ICM	Use of improved var.	GUJ-05	25	10	12.00	8.30	10.11	8.74	15.67

Economic Performance of Pulse CFLD

Crop	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Sesamum	27500	97500	70000	3.54	25350	75000	50450	2.95

Details of farming situation

Crop	Season	Farming situation	Soil type	Status of Soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall	No. of rainy days
				N	P	K					
Sesamum	Kharif 2022	Irrigated	Sandy loam	L	M	L	Maize	07.08.22	28.10.22	414	20

Technical Feedback

SN.	Crop	Feedback
1	Sesamum	Use of improved variety and integrated crop management helps in growth & development of crop resulted in higher production of crop & better profit. This year due to bad weather yield is effected but next year it may be improved

Farmers reaction–

SN.	Crop	Feedback
1	Lentil	Use of improved variety resulted in higher yield of the crop and more income to the farmers.

Performance of Cluster Frontline demonstrations

S.N	Crop	Thematic area	Tech. Demo.	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Prop.	Actual	SC/ST	Others	Total	
1	Urd	ICM	Use of improved var. PU-31	Kharif - 22	20	20	14	36	50	

Frontline demonstration on pulse crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield
						Demo			Check	
						High	Low	Average		
Urd	ICM	Use of improved var.	PU-31	50	20	9.53	7.52	8.90	7.12	25.00

Economic Performance of Pulse CFLD

Crop	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Urd	22545	63925	41380	2.84	22200	50643	28443	2.28

Details of farming situation

Crop	Season	Farming situation	Soil type	Status of Soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall	No. of rainy days
				N	P	K					
Urd	Kharif 2022	Irrigated	Sandy loam	L	M	L	Maize	18.07.22	12.10.22	414	20

Technical Feedback

SN.	Crop	Feedback
1	Urd	Use of improved variety and integrated crop management helps in growth & development of crop resulted in higher production of crop & better profit.

Farmers reaction–

SN.	Crop	Feedback
1	Urd	Use of improved variety resulted in higher yield of the crop and more income to the farmers.

Details of Enterprises (Live Stock)

FLD on Livestock RABI- 2021-22

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Milk Production lt/day/ Body weight (gm)		% Increase
					Demo.	F.P.	
Buffaloes	Disease Management	Use of Ivermectin Inj.	05	05	4.85-5.10	4.55-4.20	Milk production increased 12.85% by Ivermectin Inj.
Buffaloes	Nutrition /Feed management	Use of calcium + Phosphorus and vit. D_3	05	05	4.95-5.55	4.60-4.20	Milk production increased 21.80%
Chicken (Broiler)	Nutrition /Feed management	Use of vitamin & mineral mixture	05	05	2170 gm **Body weight 1.15% mortality**	2000gm**Body weight4.80 % mortality**	Body weight improved 8.50 % & mortality reduced 3.65 %

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.**	2000gm **B.W.**	3.10/day	4.10/day	1.0/day	1.16	2.80/day	3.15/day	0.35/day	1.13

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 21.80 % 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* **2021***)*

Crop	Technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average						
Oilseed crop													
Pulse crop													
Cereal crop													
Vegetable crop													
Chilli	Varietal	HYVVGE-078	10	4.0	355.20	343.67	349.05	278.23	25.48	76750	520996	444889	5.46
Potato	Late blight management	K.Chipsona-1	10	4.0	364.15	335.28	354.06	273.54	32.06	67653	174327	106675	2.58
Fruit crop													

III. Training Programme **(Jan to Dec. 2022)**

Farmers' Training including sponsored training programmes

A) On Campus

Thematic Area	No. of courses	No. of participants						
		Others			SC/ST*			Grand Total
		Male	Female	Total	Male	Female	Total	
A) Farmers & Farm Women								
Plant Protection								
IPM	03	48	-	48	12	-	12	60
IDM	01	20	-	20	-	-	-	20
Crop Production								
INM	01	16	-	16	04	-	04	20
ICM	01	20	-	20	-	-	-	20
Horticulture								
Production Management technology of vegetables	02	34	-	34	06	-	06	40
Animal Science								
Feed Management	03	60	-	60	-	-	-	60
Disease Management	01	20	-	20				20
Home Science								
Income generation activities for empowerment of rural women	01	-	10	10	-	10	10	20
Preservation of seasonal fruits and vegetables	01	-	08	08	-	12	12	20
Total	**14**	**218**	**18**	**236**	**22**	**22**	**44**	**280**

Off Campus

Thematic Area	No. of courses	No. of participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
B) Farmers & Farm Women								
A) Farmers & Farm Women								
Plant Protection								
IPM	05	60	-	60	40	-	40	100
IDM	04	65	-	65	15		15	80
Bi-control of pests and diseases	02	18	-	18	22	-	22	40
Crop Production								
INM	02	36	-	36	4	-	4	40
ICM	03	52	-	52	8	-	8	60
Nursery management	01	20	-	20	-	-	-	20
Inter Cropping system	01	18	-	18	2	-	2	20
Horticulture								
Production Management technology of flowers	01	16	-	16	4	-	4	20
Production Management technology of vegetable	01	20	-	20	-	-	-	20
Management and aftercare in fruit orchards	01	15	-	5	5	-	5	20
Nursery raising	01	15	-	5	5	-	5	20
Machan cultivation	01	15	-	5	5	-	5	20
Animal Science								
Management of farm animals	02	30	-	30	10	-	10	40
Feed Management	03	50	-	50	10	-	10	60
Disease management	03	40	-	40	20	-	20	60
Dairy management	04	60	-	60	20	-	20	80
Home Science								
Importance of balance and high nutrient diet for adolescent girl	01	-	12	12	-	08	08	20
Storage loss minimization techniques	01	-	08	08	-	12	12	20
Value addition	02	-	23	23	-	17	17	40
Income generation activities for empowerment of rural women	01	-	16	16	-	4	4	20
Preservation of seasonal fruits and vegetables	01	-	15	15	-	5	5	20
Women and childcare	01	-	20	20				20
TOTAL	**42**	**530**	**94**	**594**	**170**	**46**	**216**	**840**

B. RURAL YOUTH

Thematic Area	No. of courses	No. of participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
Plant Protection								
Bee Keeping	03	20	-	20	10	-	10	30
Animal Science								
Dairying	02	20	-	20	-	-	-	20
Goat Farming	01	10	-	10	-	-	-	10
Crop Production								
Vermi culture	01	10	-	10	-	-	-	10
TOTAL	**07**	**60**	**-**	**60**	10	-	10	**70**

C. EXTENSION FUNCTIONARIES

Thematic Area	No. of courses	No. of participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
Plant Protection								
IPM	01	10		10	-	-	-	10
IDM	01	10		10	-	-	-	10
Crop Production								
Seed production	01	10	-	10	-	-	-	10
Horticulture								
Commercial Flower	01	10	-	10	-	-	-	10
vegetable production	01	10	-	10	-	-	-	10
Animal Science								
Management in farm animals	01	10	-	10	-	-	-	10
Disease management	01	10		10	-	-	-	10
Home Science								
Value addition	01	-	10	10	-	-	-	10
Total	**08**	**70**	**10**	**80**	**-**	**-**	**-**	**80**

CONSOLIDATED ON & OFF

A)

Thematic Area	No. of courses	No. of participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
B) Farmers & Farm Women								
A) Farmers & Farm Women								
Plant Protection								
IPM	08	108	-	108	52	-	52	160
IDM	05	85	-	85	15		15	100
Bi-control of pests and diseases	02	18	-	18	22	-	22	40
Crop Production								
INM	03	52	-	52	8	-	8	60
ICM	04	72	-	72	8	-	8	80
Nursery management	01	20	-	20	-	-	-	20
Inter Cropping system	01	18	-	18	2	-	2	20
Horticulture								
Production Management technology of flowers	01	16	-	16	4	-	4	20
Production Management technology of vegetable	03	54	-	54	6	-	6	60
Management and aftercare in fruit orchards	01	15	-	15	5	-	5	20
Nursery raising	01	15	-	15	5	-	5	20
Machan cultivation	01	15	-	15	5	-	5	20
Animal Science								
Management of farm animals	02	30	-	30	10	-	10	40
Feed Management	06	110	-	110	10	-	10	120
Disease management	04	60	-	60	20	-	20	80
Dairy management	04	60	-	60	20	-	20	80
Home Science								
Importance of balance and high nutrient diet for adolescent girl	01	-	12	12	-	08	08	20
Storage loss minimization techniques	01	-	08	08	-	12	12	20
Value addition	02	-	23	23	-	17	17	40
Income generation activities for empowerment of rural women	02	-	26	26	-	14	14	40
Preservation of seasonal fruits and vegetables	02	-	23	23	-	17	17	40
Women and childcare	01	-	20	20				20
TOTAL	**56**	**748**	**112**	**860**	**192**	**68**	**260**	**1120**

B. RURAL YOUTH

Thematic Area	No. of courses	No. of participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
Plant Protection								
Bee Keeping	03	20	-	20	10	-	10	30
Animal Science								
Dairying	02	20	-	20	-	-	-	20
Goat Farming	01	10	-	10	-	-	-	10
Crop Production								
Vermi culture	01	10	-	10	-	-	-	10
TOTAL	**07**	**60**	**-**	**60**	10	-	10	**70**

C. EXTENSION FUNCTIONARIES

Thematic Area	No. of courses	No. of participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
Plant Protection								
IPM	01	10		10	-	-	-	10
IDM	01	10		10	-	-	-	10
Crop Production								
Seed production	01	10	-	10	-	-	-	10
Horticulture								
Commercial Flower	01	10	-	10	-	-	-	10
vegetable production	01	10	-	10	-	-	-	10
Animal Science								
Management in farm animals	01	10	-	10	-	-	-	10
Disease management	01	10		10	-	-	-	10
Home Science								
Value addition	01	-	10	10	-	-	-	10
Total	**08**	**70**	**10**	**80**	**-**	**-**	**-**	**80**

Table. Sponsored training programmes

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Crop production and management										
Production technology of crops										
Production technology of vegetable	**02**	**50**	-	**50**	-	-	-	**50**	-	**50**
Use of weedcide in Pulses and oilseeds crops	**01**	**50**	-	**50**	-	-	-	**50**	-	**50**
Production technology of fruit	**01**	**50**	-	**50**	-	-	-	**50**	-	**50**
Commercial production of vegetables										
Production and value addition										
Fruit Plants	**01**	**50**	-	**50**	-	-	-	**50**	-	**50**
Ornamental plants	**01**	**50**	-	**50**	-	-	-	**50**	-	**50**

Spices crops	**01**	**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	**09**									**504**
Others (pl. specify)										
Total										
GRAND TOTAL	**16**									**804**

IV . Extension Programme

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory services	862	862	-	862
Diagnostic visits	68	186	-	186
Kisan Mela	01	268	-	54
Exhibition	01	268		
Group discussions	06	256	-	256
Kisan gosthi	18	940	-	940
Film Show	22	1206	-	1206
Scientists' visit to farmers field	129	416	-	416
Farmers visit to KVK	1976	1976	-	1976
Special day celebration	05	196	-	196
World Soil Health day	01	36	-	36
Technical Report	08	-	-	-
Dairy on profitability training	03	75		75
Total	**3126**	**6688**		**6203**

Details of other extension programmes

Particulars	Number
Electronic media	-
Extension literature	03
News paper coverage	18
Technical articles	-
Technical bulletins	-
Technical reports	-
Radio talks	03
TV talks	-
Total	**24**

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

Production of seeds/Commercial 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	No. of KVKs
Cereals	Wheat	DBW-187, 222	FS	342.04	608000	NSC	
Total				**342.04**			

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	No. of KVKs
Ornamental plants							01
Fodder	Napier grass			4000	-	55	
Seasonal Flowers Seedlings	Calendula Nastertium Holyhock Petunia Dogflower Ice plant Sweet William Sweet Allysum Dimorphotheca			7200	-	Distributed to Primary schools & BRCs & CDO office and other line deptt.	

	Conflower Paper flower Cineraria Mari gold						
Bael		**Commercial**			**4200**	**Auction**	
Aonla		**Commercial**			**22200.00**	**Auction**	
Total				**11200**	**26400.00**		

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	28.11.2022

IX. NEWSLETTER/MAGAZINE

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

X. PUBLICATIONS

Category	Number
Research Paper	03
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 (No.)	Visit by officials (No.)

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

Introduction of alternate crops/varieties

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

Major area coverage under alternate crops/varieties

Crops	**Area (ha)**	**Number of beneficiaries**
Oilseeds	20.00	50
Pulses	20.00	50
Cereals		
Vegetable crops		
Tuber crops		
Total	**40.00**	**100**

Farmers-scientists interaction on livestock management

Livestock components	**Number of interactions**	**No.of participants**
Profitability of Dairy and livestock	**03**	**75**
Total	**03**	**75**

Animal health camps organized

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

Seed distribution in drought hit states

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

Large scale adoption of resource conservation technologies

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

Awareness campaign

	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
	05	250	02	100								
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		04	70	20
Total		04	70	20

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 (2022)

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 2022 to Dec 2022)

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

C. Facilities in the ATIC which are in operation

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

D. Technology information provided

D.1. Details on technology information (Jan 2022 to Dec 2022)

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) (Jan 2022 to Dec 2022)

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 (Jan 2022 to Dec 2022)

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 2022 to Dec 2022)

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 2022 to Dec 2022)

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)
	S.V.P.U.A&T., Meerut	Dr. P.K. Singh						

B. Workshops / meetings organized during Jan –Dec. 2022

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

C. Visits made by DE / Officials in the Directorate to KVKs during Jan –Dec. 2022

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 –Dec. 2022

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 during Jan –Dec. 2022

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 –Dec. 2022

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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