

## PROFORMA FOR PREPARATION OF ANNUAL REPORT (Jan to December 2021)

### APR SUMMARY

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

#### 1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	66	1465	487	1952
Rural youths	8	173	78	251
Extension functionaries	8	248	51	299
Sponsored Training	0	0	0	0
Vocational Training	0	0	0	0
<b>Total</b>	<b>82</b>	<b>1886</b>	<b>616</b>	<b>2502</b>

#### 2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds			
Pulses			
Cereals	55	20.8	
Vegetables	42	4.1	
Other crops			
Hybrid crops			
<b>Total</b>	<b>97</b>	<b>24.9</b>	
Livestock & Fisheries	17		34
Other enterprises	170		170
<b>Total</b>	<b>187</b>		<b>204</b>
<b>Grand Total</b>	<b>284</b>	<b>24.9</b>	<b>204</b>

#### 3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
<b>Technology Assessed</b>			
Crops	10	89	89
Livestock	2	58	29
Various enterprises	1	5	5
<b>Total</b>	<b>13</b>	<b>152</b>	<b>123</b>
<b>Technology Refined</b>			
Crops			
Livestock			
Various enterprises			
<b>Total</b>			
<b>Grand Total</b>	<b>13</b>	<b>152</b>	<b>123</b>

#### 4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	257	24020
Other extension activities	198	Mass
<b>Total</b>	<b>455</b>	<b>24020</b>

## 5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
	Text only	16	8	11	4	15	0	54
	Voice only							
	Voice & Text both							
	<b>Total Messages</b>	16	8	11	4	15	0	54
	<b>Total farmers Benefitted</b>	<b>6500</b>	<b>450</b>	<b>350</b>	<b>80</b>	<b>6000</b>	<b>-</b>	<b>13380</b>

## 6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	195.6	787429.00
Planting material (No.)	29660	NIL
Bio-Products (kg)		
Livestock Production (No.)		
Fishery production (No.)		

## 7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	235	NIL
Water		
Plant		
<b>Total</b>	<b>235</b>	<b>NIL</b>

## 8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	5
2	Conferences	6
3	Meetings	26
4	Trainings for KVK officials	4
5	Visits of KVK officials	4
6	Book published	1
7	Training Manual	3
8	Book chapters	3
9	Research papers	11
10	Lead papers	0
11	Seminar papers	14
12	Extension folder	6
13	Proceedings	12
14	Award & recognition	2
15	On going research projects	5

## DETAIL REPORT OF APR-2021

### 1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
College of Agriculture, BUAT, Banda	05192-232315	-	<a href="mailto:kvkbanda@gmail.com">kvkbanda@gmail.com</a>

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

Address	Telephone		E mail
	Office	FAX	
Directorate of Extension, Banda University of Agriculture & Technology, Banda	05192-232307	232307	<a href="mailto:Doe.buat@gmail.com">Doe.buat@gmail.com</a>

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Shyam Singh	-	9450791440	shyamsingh15350@gmail.com

#### 1.4. Year of sanction: 2007

#### 1.5. Staff Position (as on 31<sup>st</sup> December, 2021)

Sl. No.	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.	Programme Coordinator	Dr. Shyam Singh	Sr. Scientist & Head	Agronomy	37400-67000	147900	13.12.2017	Permanent	SC	9450791440	52	Kvkbanda@gmail.com
2.	Subject Matter Specialist	Vacant	Scientist	Horticulture	15600-39100	-	-	-	-	-	-	-
3.	Subject Matter Specialist	Dr. Pragya Ojha	Scientist	Home Science	15600-39100	63100	12.12.2017	Permanent	Other	9458891879	31	Kvkbanda@gmail.com
4.	Subject Matter Specialist	Dr. Manjul Pandey	Scientist	Plant Protection	15600-39100	63100	12.12.2017	Permanent	Other	6394584646	43	Kvkbanda@gmail.com
5.	Subject Matter Specialist	Dr. Manvendra Singh	Scientist	Animal Science	15600-39100	63100	15.12.2017	Permanent	Other	8168313754	36	Kvkbanda@gmail.com
6.	Subject Matter Specialist	Dr. Diksha Patel	Scientist	Agriculture Extension	15600-39100	61300	16.04.2018	Permanent	Other	7404797378	29	Kvkbanda@gmail.com
7.	Subject Matter Specialist	Vacant	Scientist	Agronomy	15600-39100	-	-	-	-	-	-	-
8.	Computer Programmer	Vacant	Computer Programmer	-	9300-34500	-	-	-	-	-	-	-
9.	Farm Manager	Shri Ghan Shyam Yadav	Farm Manager/Lab Asstt.	-	9300-34500	39900	11.12.2017	Permanent	OBC	7007323455	28	Kvkbanda@gmail.com
10.	Programme Assistant	Vacant	Farm Manager/Lab Asstt.	-	9300-34500	-	-	-	-	-	-	-
11.	Accountant / Superintendent	Shri Abhishek Shahi	Accountant	-	9300-34500	39900	11.12.2017	Permanent	Other	7897830330	30	Kvkbanda@gmail.com
12.	Stenographer	Shri Sarad Chandra	Stenographer	-	5200-20200	28700	11.12.2017	Permanent	OBC	9648711425	37	Kvkbanda@gmail.com
13.	Driver	Shri Chandra Skekhar	Driver	-	5200-20200	24500	11.12.2017	Permanent	Other	9556407161	45	Kvkbanda@gmail.com
14.	Driver	Shri Vikas Gupta	Driver	-	5200-20200	24500	11.12.2017	Permanent	Other	7379539458	29	Kvkbanda@gmail.com
15.	Supporting staff	Shri Raghuvveer	Peon	-	18000-56	27200	01.06.2010	Permanent	SC	9452226449	51	
16.	Supporting staff	Shri Preetam	Peon	-	5200-20200	26400	01.09.2010	Permanent	SC		47	

**1.6. Total land with KVK (in ha) :**

S. No.	Item	Area (ha)
1	Under Buildings	01.69
2.	Under Demonstration Units	00.20
3.	Under Crops	07.00
4.	Orchard/Agro-forestry	--
5.	Others (specify)	--

**1.7. Infrastructural Development:**

**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR			77.00	2011		Only Roof level construction
2.	Farmers Hostel	ICAR			25.50	2011		Foundation level
3.	Staff Quarters (6)				--	--		Nil
4.	Demonstration Units (2)				--	--		Nil
					--	--		Nil
5	Fencing				--	--		Nil
6	Rain Water harvesting system				--	--		Nil
7	Threshing floor				--	--		Nil
8	Farm godown				--	--		Nil

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep Bolero LX	2010	4,57,526		Poor
Tractor Massy	2010	4,74,140		Poor
Motorcycle	-	-	-	-
Tractor Massy	2021	690766		Good

**C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Cultivator	2011	--	Old transferred from DDSF
Disc Harrow	2011	--	Old transferred from DDSF
Seeddril	2011	--	Old transferred from DDSF
Digital Camera	2014	7450	Good
Laptop+Biometric with UPS	2014	49000	Repairable
Desktop (Hp)	2019	49000	Good
UPS	2019	6000	Good
DSLR Camera	2019	43000	Good
Desktop (Lenova)	2020	28000	Good
PAS	2021	12000	Good
Cultivator	2021	26999	Good
Rotavator	2021	165000	Good
Disc Harrow	2021	124000	Good

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

Date :28.10.2021

Sl.No.	Name and Designation of Participants	Salient Recommendations	Action taken
1	श्री बलराम सिंह कछवाह मा0 सदस्य, संस्थान प्रबन्ध समिति, अटारी कानपुर	<ul style="list-style-type: none"> <li>➤ जनपद में दलहन के क्षेत्र को बढ़ावा एवं सीड हब योजना का लाभ पहुंचाएं।</li> <li>➤ केन्द्र व राज्य सरकार की योजनाओं के लिए कृषकों को जागरूक करें।</li> <li>➤ पुँजुओं की उत्पादकता बढ़ाएं।</li> <li>➤ कृषकों में मोटे अनाजों के प्रति जागरूकता पैदा करें।</li> </ul>	All the suggestions have been included in Action Plan (2022) of KVK, Banda
2	डा0 नरेन्द्र सिंह— सह निदेशक प्रसार	<ul style="list-style-type: none"> <li>➤ जखनी गाँव में पूर्व में बने हुये तालाबों में मत्स्य पालन को बढ़ावा दिया जाये।</li> <li>➤ बदलते मौसम को देखते हेतु किसानों मौसम के बारे में समसामायिक जानकारी उपलब्ध कराये।</li> <li>➤ नैनो टेक्नोलाजी पर आधारित तरलीय उर्वरक के पर्णिय छिड़काव पर प्रदर्शन आयोजित किये जाये।</li> <li>➤ नवीनतम तकनीकियों पर ही ष्ज व थ्स्व आयोजित करें।</li> <li>➤ फीडबैक प्रोफार्मा विकसित कर डाटा एकत्र करें।</li> <li>➤ सोशल मीडिया का प्रयोग करें।</li> <li>➤ नये कृषकों का बायोडाटा तैयार करें व पुरस्कार के लिए भेजें।</li> </ul>	
3	डा0 आनन्द कुमार सिंह—सह निदेशक प्रसार	<ul style="list-style-type: none"> <li>➤ बुन्देलखण्ड में नीबू वर्गीय फलों जैसे नीबू, मुसम्मी, संतरा, व किन्नु इत्यादि के फलों के बागों को स्थापित करने के लिए कृषकों को बढ़ावा दे।</li> <li>➤ प्रशिक्षण, प्रदर्शन इत्यादि हेतु प्रसार निदेशलय से सहयोग प्राप्त करें।</li> <li>➤ पौध उत्पादन, रिवाल्विंग फण्ड, परियोजनाओं व बजट इत्यादि का ब्योरा बैज्ञानिक सलाहकार समिति में प्रस्तुत किया जाये।</li> <li>➤ बाई—पास प्रोटीन के विषय में कृषकों को जागरूक करें।</li> <li>➤ अन्ना प्रथा की समस्या के रोकथाम हेतु कृषि विज्ञान केन्द्र के पशु वैज्ञानिक इसके प्रबन्धन के साथ साल भर चारे की प्रजातियों के बारे में कृषकों को जागरूक करें।</li> </ul>	
4	डा0 जी0 एस0 पंवार, अधिष्ठाता, कृषि महाविद्यालय	<ul style="list-style-type: none"> <li>➤ कृषकों में बहुवर्षीय चारे हेतु प्रशिक्षण कार्यक्रम व प्रदर्शन इकाई स्थापित करें। धान की खेती की नई तकनीकियों के विषय में कृषकों को जागरूक करें।</li> </ul>	
5	डा0 संजीव कुमार, अधिष्ठाता, वानिकी महाविद्यालय	<ul style="list-style-type: none"> <li>➤ वृक्षारोपण को बढ़ावा देने के लिए कृषि—वानिकी महाविद्यालय के वैज्ञानिकों का सहयोग प्राप्त करें।</li> </ul>	
6	डा0 वन्दना, सह अधिष्ठाता, गृह विज्ञान महाविद्यालय	प्रशिक्षण कार्यक्रमों में जामुन—प्रसंस्करण में विशेष ध्यान दें।	
7	डा0 भानू प्रकाश मिश्रा, विभाग अध्यक्ष, कृषि प्रसार	रेडियो व टी0वी0 टॉक (जंसा) द्वारा के0वी0के0 के वैज्ञानिक नई तकनीकियों को कृषकों तक पहुंचाये।	
8	जिला उद्यान अधिकारी के सुझाव —	<ul style="list-style-type: none"> <li>➤ जनपद में कृषकों को खरीफ प्याज, केला, ड्रेगन फल की खेती करने हेतु प्रोत्साहित करें तथा इस खेती के बारे में कृषकों को अधिक से अधिक जानकारी दी जाये।</li> <li>➤ कृषकों को उद्यान विभाग की योजनाओं के बारे में बताये तथा जोड़ें।</li> </ul>	
9	सचिन तिवारी, इफको बाँदा	<ul style="list-style-type: none"> <li>➤ नैनो यूरिया व नैनो फर्टिलाइजर का प्रचार— प्रसार करें।</li> </ul>	
10	श्री विज्ञान शुक्ला	<ul style="list-style-type: none"> <li>➤ फसल चक्र अपनाने के लिए कृषकों को प्रेरित करें।</li> </ul>	
11	श्री शान्ति भूषण	<ul style="list-style-type: none"> <li>➤ तिहार, जसपुरा, बाँदा क्षेत्र में प्रचार—प्रसार की गतिविधियाँ बढ़ाये।</li> </ul>	
12	श्रीमती राम दुलारी, प्रगतिशील महिला कृषक	<ul style="list-style-type: none"> <li>➤ समूह के गठन एवं महिलाओं के आधारित प्रशिक्षण कार्यक्रमों को अधिक से अधिक सम्मिलित किया जाये।</li> </ul>	
13	श्रीमती लक्ष्मी, प्रगतिशील महिला कृषक	<ul style="list-style-type: none"> <li>➤ महिलाओं को कुपोषण से बचाव हेतु जागरूकता कार्यक्रम आयोजित किया जाये।</li> </ul>	
14	श्री विपिन द्विवेदी, प्रगतिशील कृषक	<ul style="list-style-type: none"> <li>➤ केन्द्र के द्वारा नवीनतम प्रजातियों के बीजों का वितरण सम्मिलित किया जाये।</li> </ul>	

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



# कृषि विज्ञान केन्द्र, बाँदा प्रसार निदेशालय



बाँदा कृषि एवं प्रौद्योगिक विश्वविद्यालय, बाँदा-210001, उ०प्र०

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पत्रांक: /के०वी०के०/ 2021

दिनांक / 10 / 2021

## वैज्ञानिक सलाहकार समिति दिनांक 28.10.2021 को आयोजित पंचम बैठक का कार्यवृत्त

सह निदेशक प्रसार की अध्यक्षता में आज दिनांक 28.10.2021 को कृषि विज्ञान केन्द्र, बाँदा की वैज्ञानिक सलाहकार समिति की पंचम बैठक केन्द्र के प्रशिक्षण कक्ष में सह निदेशक प्रसार महोदय की अध्यक्षता में सम्पन्न हुयी। इस बैठक में निम्न लिखित सदस्यों (जनपद के अधिकारी, वैज्ञानिक एवं प्रगतिशील कृषकों) ने प्रतिभाग किया-

1.	श्री बलराम सिंह कछवाह, मा० प्रबन्ध मण्डल सदस्य, अटारी	13.	श्री आर०के०साहू, जिला उद्यान अधिकारी
2.	डा० नरेन्द्र सिंह, सह निदेशक प्रसार	14.	श्री विपिन द्विवेदी, प्रगतिशील कृषक
3.	डा० आनन्द सिंह, सह निदेशक प्रसार	15.	श्री शान्ति भूषण, प्रगतिशील कृषक
4.	डा० जी०एस० पवार, अधिष्ठाता कृषि महाविद्यालय	16.	श्री प्रमोद कुमार, प्रगतिशील कृषक
5.	डा० एस० वी० द्विवेदी, अधिष्ठाता उद्यान महाविद्यालय	17.	श्री विज्ञान शुक्ला, प्रगतिशील कृषक
6.	डा० संजीव कुमार, अधिष्ठाता वानिकी महाविद्यालय	18.	श्रीमती राम दुलारी, प्रगतिशील महिला कृषक
7.	डा० वंदना सिंह, सह अधिष्ठाता, गृह विज्ञान महाविद्यालय	19.	श्रीमती लक्ष्मी, प्रगतिशील महिला कृषक
8.	डा० भानु प्रकाश मिश्रा, विभागाध्यक्ष, कृषि प्रसार विभाग	20.	डा० श्याम सिंह, अध्यक्ष कृषि विज्ञान केन्द्र
9.	डा० प्रमोद कुमार, जिला कृषि अधिकारी	21.	डा० मंजुल पाण्डेय, वैज्ञानिक फसल सुरक्षा
10.	डा० एस० पी० सिंह मुख्य पशु चिकित्सा अधिकारी, बाँदा	22.	डा० मानवेन्द्र सिंह, वैज्ञानिक, पशु विज्ञान
11.	एस० आर० कुशवाहा, पशु चिकित्सा अधिकारी, बाँदा	23.	डा० प्रज्ञा ओझा, वैज्ञानिक, गृह विज्ञान
12.	श्री सचिन कुमार तिवारी, क्षेत्रीय अधिकारी, इफको	24.	श्री घनश्याम यादव, प्रक्षेत्र प्रबन्धक

बैठक का शुभारम्भ केन्द्र के अध्यक्ष डा० श्याम सिंह द्वारा मुख्य अतिथि श्री बलराम सिंह कछवाह मा० सदस्य, संस्थान प्रबन्ध समिति, अटारी कानपुर, सह निदेशक प्रसार एवं अन्य सभी माननीय सदस्यों को पुष्प गुच्छ भेंट कर स्वागत से हुआ। बैठक में सर्वप्रथम केन्द्र के अध्यक्ष डा० श्याम सिंह ने केन्द्र की दिनांक 16.12.2020 को सम्पन्न हुयी चतुर्थ बैठक में सदस्यों द्वारा दिये गये सुझावों पर की गयी कार्यवाही से समिति के सदस्यों को अवगत कराया इसके केन्द्राध्यक्ष द्वारा दिसम्बर 2020 से अक्टूबर, 2021 तक केन्द्र के सभी वैज्ञानिकों द्वारा सम्पादित कराये गये कार्यों की समेकित प्रगति आख्या सदस्यों के समक्ष प्रस्तुत की साथ ही आगामी वर्ष (नवम्बर, 2021 से दिसम्बर, 2022 तक) की कार्ययोजना भी मा० सदस्यों के समक्ष रखते हुये सभी के सुझाव लिये गये। प्रस्तुति के दौरान समिति के सभी मा० सदस्यों से सुझाव आमंत्रित किये गये। इसके पश्चात केन्द्र पर कार्यरत विभिन्न विषयों के सभी विषय वस्तु विशेषज्ञों द्वारा अपने-अपने विषय की प्रगति आख्या एवं कार्ययोजना विस्तार से समिति के समक्ष प्रस्तुत की।

केन्द्राध्यक्ष एवं विभिन्न वैज्ञानिकों द्वारा प्रस्तुत की गयी प्रगति आख्या एवं कार्ययोजना पर समिति के सदस्यों, उपस्थित प्रगतिशील कृषकों द्वारा संतोष व्यक्त किया गया। साथ ही चर्चा के दौरान विभिन्न सदस्यों ने अपने-अपने सुझाव भी प्रस्तुत किये जो निम्नवत हैं।

### श्री बलराम सिंह कछवाह मा० सदस्य, संस्थान प्रबन्ध समिति, अटारी कानपुर

- जनपद में दलहन के क्षेत्र को बढ़ावा एवं सीड हब योजना का लाभ पहुंचाएं।
- केन्द्र व राज्य सरकार की योजनाओं के लिए कृषकों को जागरूक करें।
- पुँजुओं की उत्पादकता बढ़ाएं।
- कृषकों में मोटे अनाजों के प्रति जागरूकता पैदा करें।

### डा० नरेन्द्र सिंह- सह निदेशक प्रसार

- जखनी गाँव में पूर्व में बने हुये तालाबों में मत्स्य पालन को बढ़ावा दिया जाये।
- बदलते मौसम को देखते हेतु किसानों मौसम के बारे में समसामायिक जानकारी उपलब्ध करायें।
- नैनो टेक्नोलाजी पर आधारित तरलीय उर्वरक के पर्णीय छिड़काव पर प्रदर्शन आयोजित किये जायें।
- नवीनतम तकनीकियों पर ही बज व थ्रू आयोजित करें।
- फीडबैक प्रोफार्मा विकसित कर डाटा एकत्र करें।
- सोशल मीडिया का प्रयोग करें।

- नये कृषकों का बायोडाटा तैयार करें व पुरस्कार के लिए भेजें।

#### **डा० आनन्द कुमार सिंह—सह निदेशक प्रसार**

- बुन्देलखण्ड में नीबू वर्गीय फलों जैसे नीबू, मुसम्मी, संतरा, व किन्नु इत्यादि के फलों के बागों को स्थापित करने के लिए कृषकों को बढ़ावा दे।
- प्रशिक्षण, प्रदर्शन इत्यादि हेतु प्रसार निदेशलय से सहयोग प्राप्त करें।
- पौध उत्पादन, रिवाल्विंग फण्ड, परियोजनाओं व बजट इत्यादि का ब्यौरा बैज्ञानिक सलाहकार समिति में प्रस्तुत किया जाये।
- बाई—पास प्रोटीन के विषय में कृषकों को जागरूक करें।
- अन्ना प्रथा की समस्या के रोकथाम हेतु कृषि विज्ञान केन्द्र के पशु वैज्ञानिक इसके प्रबन्धन के साथ साल भर चारे की प्रजातियों के बारे में कृषकों को जागरूक करें।

#### **डा० जी० एस० पंवार, अधिष्ठाता, कृषि महाविद्यालय**

- कृषकों में बहुवर्षीय चारे हेतु प्रशिक्षण कार्यक्रम व प्रदर्शन इकाई स्थापित करे। धान की खेती की नई तकनीकियों के विषय में कृषकों को जागरूक करें।

#### **डा० संजीव कुमार, अधिष्ठाता, वानिकी महाविद्यालय**

- वृक्षारोपण को बढ़ावा देने के लिए कृषि—वानिकी महाविद्यालय के वैज्ञानिकों का सहयोग प्राप्त करें।

#### **डा० वन्दना, सह अधिष्ठाता, गृह विज्ञान महाविद्यालय**

- प्रशिक्षण कार्यक्रमों में जामुन—प्रसंस्करण में विशेष ध्यान दें।

#### **डा० भानू प्रकाश मिश्रा, विभाग अध्यक्ष, कृषि प्रसार**

- रेडियो व टी०वी० टॉक (जंसा) द्वारा के०वी०के० के वैज्ञानिक नई तकनीकियों को कृषकों तक पहुंचाये।

#### **जिला उद्यान अधिकारी के सुझाव —**

- जनपद में कृषकों को खरीफ प्याज, केला, ड्रेगन फल की खेती करने हेतु प्रोत्साहित करें तथा इस खेती के बारे में कृषकों को अधिक से अधिक जानकारी दी जायें।
- कृषकों को उद्यान विभाग की योजनाओं के बारे में बताये तथा जोड़ें।

#### **सचिन तिवारी, इफको बाँदा**

- नैनो यूरिया व नैनो फर्टिलाइजर का प्रचार— प्रसार करें।

#### **श्री विज्ञान शुक्ला**

- फसल चक्र अपनाने के लिए कृषकों को प्रेरित करें।

#### **श्री शान्ति भूषण**

- तिहार, जसपुरा, बाँदा क्षेत्र में प्रचार—प्रसार की गतिविधियाँ बढ़ायें।

#### **श्रीमती राम दुलारी, प्रगतिशील महिला कृषक**

- समूह के गठन एवं महिलाओं के आधारित प्रशिक्षण कार्यक्रमों को अधिक से अधिक सम्मिलित किया जाये।

#### **श्रीमती लक्ष्मी, प्रगतिशील महिला कृषक**

- महिलाओं को कुपोषण से बचाव हेतु जागरूकता कार्यक्रम आयोजित किया जाये।

#### **श्री विपिन द्विवेदी, प्रगतिशील कृषक**

- केन्द्र के द्वारा नवीनतम प्रजातियों के बीजों का वितरण सम्मिलित किया जायें।

(श्याम सिंह)

अध्यक्ष

प्रतिलिपि: निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

1. निदेशक प्रसार, बाँदा कृषि एवं प्रौद्योगिक विश्वविद्यालय, बाँदा।
2. वैज्ञानिक सलाहकार समिति के मा० सदस्यगण।

(श्याम सिंह)

अध्यक्ष

## **2. DETAILS OF DISTRICT (31<sup>st</sup> December, 2021)**

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

S. No	Farming system/enterprise
1.	Paddy-Wheat (irrigated) Paddy-Wheat (Un-irrigated)
2.	Fallow-Gram+Linseed
3.	Sesamum-Gram/Lentil/Field pea

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

S. No	Agro-climatic Zone	Characteristics
1	Zone III	Arid Climate

### **2.3 Soil type/s**

S. No	Soil type	Characteristics	Area in ha
1.	Rakar	Heavy coarse soil	46670
2.	Paruwa	Sandy-loam soil	142480
3.	Mar	Loamy soil	78600
4.	Kabar	Sandy soil	62509

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

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Qt./ha)
<b>Kharif (2020-21)</b>				
1.	Paddy	46960	1237300	26.35
2.	Til	13710	58790	4.29
3.	Black gram	4940	33150	6.71
4.	Green gram	3890	20830	5.36
5.	Pigeon Pea	17070	245490	14.38
6.	Jowar	22410	414390	18.50
<b>Rabi (2020-21)</b>				
1.	Wheat	161000	4892900	30.63
2.	Chickpea	93570	1082700	11.88
3.	Mustard	2870	27050	9.44
4.	Field Pea	3080	22980	12.71
5.	Lentil	38620	294960	9.89
6.	Linseed	3980	11200	10.0

### **2.5. Weather data**

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)
		Maximum	Minimum	
Jan-21	39.25	26	3	58.95
Feb-21	86.75	30	12	60.83
Mar-21	23.75	35	25	36.53
Apr-21	0.0	40	24	46.00
May-21	0.0	42	26	52.40
Jun-21	0.0	44	28	69.15
Jul-21	266.25	43	25	81.60
Aug-21	200.95	38	24	88.60



Sep-21	157.75	38	24	79.60
Oct-21	87.75	36	17	55.25
Nov-21	0	26	10	58.4
Dec-21	0	22	8	56.2

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

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	720		
<i>Indigenous</i>	370789		
<b>Buffalo</b>	324091		
<b>Sheep</b>			
<i>Crossbred</i>	0		
<i>Indigenous</i>	12255		
<b>Goats</b>	125317		
<b>Pigs</b>			
<i>Crossbred</i>	0		
<i>Indigenous</i>	17566		
<b>Rabbits</b>			
<b>Poultry</b>			
Hens			
<i>Desi</i>			
<i>Improved</i>			
Ducks			
Turkey and others			

Category	Area	Production	Productivity
Fish			
<i>Marine</i>			
<i>Inland</i>			
Prawn			
Scampi			
Shrimp			

## 2.7 Details of Operational area / Villages (31<sup>st</sup> December, 2021)

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Banda Sadar	Badokhar Khurd	Badokhar Khurd Luktara	Arhar, Sesum, Gram, Lentill, Wheat	Lack of Irrigation water Unavailability of improved variety seed	Moisture, Conservation Technique, Introduction of HYV, IPM, INM, IDM
	Tindvari	Barethi Askaran Parsoda	Arhar, Urd, Guava Gram, Field Pea, Lentill, Wheat, Vegetables	Lack of Irrigation water Unavailability of improved variety seed	Moisture, Conservation Technique, Introduction of HYV, IPM, INM, IDM
Baberu	Kamasin	Louhai Kamasin	Arhar, Sesum, Gram, Lentill, Fieldpea, Paddy Wheat	Lack of Irrigation water Unavailability of improved variety seed	Moisture, Conservation Technique, Introduction of HYV, IPM, INM, IDM
	Baberu	Chhanera Lalpur	Arhar, Sesum, Paddy Gram, Lentill, Fieldpea Wheat	Unavailability of improved variety seed	Introduction of HYV, IPM, INM, IDM
Atarra	Bisanda	Bisanda Atarra Rural	Arhar, Sesum, Paddy Gram, Lentill, Fieldpea Wheat	Unavailability of improved variety seed	Introduction of HYV, IPM, INM, IDM

## 2.8 Priority/thrust areas

Crop/Enterprise	Thrust Area
Rice	Integrated Nutrient Management, IPM, Water Management
Urd & Til	Weed management, IDM, HYV
Sorghum	Moisture conservation, IPM, IDM
Pulse crops	Integrated Pest Management, IDM, HYV
Oilseed	Weed management, IPM, INM, HYV
Wheat	HYV, INM
Fruit & Vegetable crops	Varietal Assessment, ICM , Disease & Pest Management,
Animal Husbandary	Breed improvement, Feed, Balance Ration
Women Farmers	Drudgery, Food & Livelihood Security

## 2.9 Intervention/ Programmes for the doubling the farmers income – during January- December, 2021

Adopted village: Bachheura

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
Kharif – Til (Flat bed sowing, old variety and use of 20kg urea/ha)	2.8	-		8000	20000	1.50	
Rabi- Mustard (local variety, broadcast, 20:10:10 N:P:K kg/ha)	6.0	-	-	18700	46830	1.50	
Livestock with no use of dewormer and balance ration	4 litre/day/animal			Rs. 60/day//animal	Rs.100.00/day/animal	2.66	

**Discussion:** Farmers were not aware about latest variety and grow these crops using minimum amount of fertilizers (Fertility status- Organic carbon-0.3%, N&P-Low and K- mediun).

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
Kharif – Til (Raised bed sowing, HYV and use of 60:40:0 N:P:K kg/ha)	4.5	-	-	8500	26500	2.11	
Rabi- Mustard (HYV, line sowing, IPM, 60:40:40 N:P:K kg/ha)	14	-	-	19800	67560	2.41	
Livestock with use of dewormer and balance ration	6 litre/day/animal			Rs. 80/day//animal	Rs.160/day/animal	3.0	

**Discussion:** After creating awareness through trainings and demonstrations about latest varieties and recommended dose of fertilizers (60:40:0 N:P:K kg/ha for Til and 60:40:40 N:P:K kg/ha for Mustard) and IPM, net income has been increased by using new varieties and sowing methods.

**Adopted village: Jakhani**

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
Kharif –Rice (old variety, PB-1121, No use of weedicide and plant protection measures)	28.0			20000	41600	2.08	
Rabi- Wheat (old variety WH-147, under use of fertilizers, no weedicide)	24.0			9000	29400	2.26	
Zaid- fallow							
Livestock with no use of dewormer and balance ration	4.5 litre/day/animal			Rs. 65/day//animal	Rs.115/day/animal	2.76	

**Discussion:** Farmers were not aware about latest variety and grow these crops without using any fertilizers (Fertility status- Organic carbon-0.3%, N&P-Low and K- medium).

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
Kharif –Rice (New variety, PB-1718, use of weedicide (Bispyribac) and IPM measures)	36.0	--	-	22500	56700	2.52	
Rabi- Wheat (HYV DBW-107, RDF 120:60:40:25 NPKZn, Sulphosuphuran + Metasuphuran)	35			12000	56000	3.66	
Zaid- fallow							
Livestock with no use of dewormer and balance ration	6.5 litre/day/animal			Rs. 80/day//animal	Rs.180.00/day/animal	3.25	

**Discussion:** After creating awareness through trainings and demonstration about latest varieties and recommended dose of fertilizers, net income has been increased by using new varieties and RDF. Milk production increased because of De-wormer and balanced ration.

### 3. TECHNICAL ACHIEVEMENTS

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

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
13	11	92	146	42.0	45.8	80	336 (24 animals)

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	72	66	2100	1952	265	257	18000	24020
Rural youth	12	8	300	251				
Ext. Functionaries	11	8	275	299				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	195.6	220	31000	29660	481

### I.A TECHNOLOGY ASSESSMENT

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

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Nutrient Management				
Varietal Evaluation	Wheat	Varietal evaluation of New HYV K-1317	4	4
	Wheat	Varietal evaluation of New HYV K-1317	4	4
Integrated Pest Management				
Integrated Crop Management				
Integrated Disease Management	Sesame	Assessment of IPM approach for stem rot and root rot disease in Sesame	24	24
	Paddy	Assessment of suitable chemical management of false smut disease in Paddy	15	15
	Lentil	Assessment of IPM approach for wilt and dry root rot disease in Lentil	10	10
Small Scale Income Generation Enterprises				
Weed Management	Paddy	Chemical Weed control in Paddy	5	5
Resource Conservation Technology				

Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Storage Technique				
<b>Total</b>			<b>62</b>	<b>62</b>

#### Summary of technologies assessed under livestock by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Disease Management				
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management	Buffalo	Assessment of feeding By-Pass fat on health and production	30	15
	Goat	Assessment of feeding Vitamin Supplement on health and production	28	7
Others (Pl. specify)				
<b>Total</b>			<b>58</b>	<b>22</b>

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

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers
Post Harvest Technology / Value addition		Value addition of coarse grains and green leafy vegetable in wheat flour to remediate the problem of malnutrition.	5	5
Drudgery Reduction		Reduction of Human drudgery through Hand Operated Vegetable Transplanter	5	5
Others (Pl. specify)		Effectiveness of different extension methods for reproductive management of dairy animals	16	16
<b>Total</b>			<b>26</b>	<b>26</b>

#### Summary of technologies assessed under all crops and enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers
Varietal Evaluation	Wheat	Varietal evaluation of New HYV K-1317	4	4
	Wheat	Varietal evaluation of New HYV K-1317	4	4
Integrated Disease Management	Sesame	Assessment of IPM approach for stem rot and root rot disease in Sesame	24	24
	Paddy	Assessment of suitable chemical management of false smut disease in Paddy	15	15

	Lentil	Assessment of IPM approach for wilt and dry root rot disease in Lentil	10	10
Weed Management	Paddy	Chemical Weed control in Paddy	5	5
Post Harvest Technology / Value addition		Value addition of coarse grains and green leafy vegetable in wheat flour to remediate the problem of malnutrition.	5	5
Drudgery Reduction		Reduction of Human drudgery through Hand Operated Vegetable Transplanter	5	5
Nutrition Management	Buffalo	Assessment of feeding By-Pass fat on health and production	30	15
	Goat	Assessment of feeding Vitamin Supplement on health and production	28	7
Others (Pl. specify)		Effectiveness of different extension methods for reproductive management of dairy animals	16	16
<b>Total</b>			<b>146</b>	<b>110</b>

## I.B. TECHNOLOGY REFINEMENT

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

Thematic areas	Crop	Name of the technology refined	No. of trials	No. of farmers
Integrated Nutrient Management				
Varietal Evaluation				
Integrated Pest Management				
Integrated Crop Management				
Integrated Disease Management				
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)				
<b>Total</b>				

### Summary of technologies refined under various livestock by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology refined	No. of trials	No. of farmers
Disease Management				
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management				
Production and Management				
Others (Pl. specify)				
<b>Total</b>				





## WEED MANAGEMENT

**Problem definition:** Heavy infestation of weed in upland Rice

**Technology Assessed:** Chemical Weed control in Paddy

Rice is the largest grown crop during Kharif season in district Banda. In most of the areas rice crop is transplanted in late July after inception of Mansoon. Rice crop faces weed infestation with broad and narrow leaves weeds mainly of *Echinochloa crusgarii E.*, *Colonum*, *Ciprus Diformis*, *Ciria*, *Alternenthera* under upland condition. A chemical weed management method was evaluated by KVK, Banda at five farmers field's of four villages. A popular herbicide combination namely, Bispyriback sodium 15 SL ( Nominigold) @ 200ml/ha was tested against the farmer practice (one hand weeding ) during Kharif 2021-22. The chemical weedicide increases 14.53% yield in Pusa Basmati 1121 variety of paddy. Weed management by Bispyriback sodium 15 SL ( Nominigold) resulted maximum yield (41.2 q/ha) followed by farmers practice (35.1 q/ha). This treatment has also maximum net return (Rs. 79114 /ha) with 3.05 B:C ratio over farmers practice.

### Effect of Chlorimuron+Metsulfuron methyl @ 20g/ha on weed control and yield Wheat

Technology Option	No.of trials	Grain Yield (qt./ha)	Increase in yield (%)	Net Return (Rs./ha)	B:C Ratio
(Farmers Practice) <i>One Hand Weeding</i>	05	33.12	-	66172	2.81
Bispyriback sodium 15 SL ( Nominigold) @200 ml/ha		37.94	14.53	79114	3.05

## VARIETAL ASSESSMENT

**Problem definition:** Poor yield due to old variety WH 147 in Wheat

**Technology Assessed :** New HYV K-1317

Wheat is the main crop during Rabi season in district Banda. In many areas wheat crop has been taken in Fallow- wheat cropping system by farmers since a long time. Wheat sowing is done in second fortnight of October to first fortnight of November and crop faces water stress during its growth and maturity furthermore most of the farmers used very old variety WH 147 and get very poor yield. New variety K-1317 suitable for timely sowing and less water requirements was evaluated by KVK, Banda at four farmers field's of four villages during Rabi 2020-21. A New variety K-1317 is under testing against the farmer practice (WH 147). The results are awaited.

Table : Performance of New **HYV K-1317** and yield of wheat.

Technology Option	No.of trials	Grain Yield (qt./ha)	Increase in yield (%)	Net Return (Rs./ha)	B:C Ratio
Farmers Practice : (WH 147)	04	Result Awaited			
New HYV K-1317					

**PEST AND DISEASE MANAGEMENT**

**Problem definition:** Heavy infection of stem rot and root rot disease in sesame

**Technology Assessed or Refined (as the case may be):** Management of stem rot and root rot disease of sesame

Sesame is an important oilseed crop of Bundelkhand region of Banda. However, there is high incidence of stem rot and root rot disease resulting in yield loss. KVK, Banda conducted on-farm trial to assess or refine (as the case may be) the management measure. The refined technology of summer deep ploughing, seed treatment with *Trichoderma viride*@4g/kg, soil application of *T.viride*@2.5kg/ha enriched in 100kg of FYM at sowing, neem cake@250kg/ha at sowing time and foliar spray of copper oxychloride 50% WP@2 g/l water reduced the percentage of disease incidence from 14.8 to 4.2 and yield was increased by 37.2 per cent.

**Table :** Management of stem rot and root rot disease of sesame

Technology Option	No.of trials	No. of infected plants(%)	Yield (kg/ha)	% Increase in yield over farmer's practice	Gross cost (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C ratio
Seed treatment measure not in practice (Farmers Practice)	24	14.8	4	37.2%	8000	28000	20000	1.50
summer deep ploughing, seed treatment with <i>Trichoderma viride</i> @4g/kg, soil application of <i>T.viride</i> @2.5kg/ha enriched in 100kg of FYM at sowing, neem cake@250kg/ha at sowing time and foliar spray of copper oxychloride 50% WP@2 g/l		4.2	6		9000	42000	330000	2.66

**PEST AND DISEASE MANAGEMENT**

**Problem definition:** Heavy infestation of false smut disease in Paddy effecting in a yield loss of 18% and income loss of Rs.7000/ha

**Technology Assessed or Refined (as the case may be):** false smut disease in Paddy

Paddy is grown on large area (more than 50,000 ha.) in district Banda. Paddy crop is affected by several diseases from suffering stage to maturity stage. The false smut is major disease because the fungi affect during reproductive stage and directly reduce the yield. An OfT was conducted during to assess various chemical for management of this disease. Spraying of Propiconazole was found most effective for management of false smut disease of Paddy. It reduced the infected ears/square meter from 18 to 5 . The yield enhancement was 17.1% with net return of Rs.73960/ha in comparison to farmer's practice (Rs.63360/ha).

Technology Option	No. of trials	No. of infected ear/m <sup>2</sup> plants(%)	Yield (kg/ha)	% Increase in yield over farmer's practice	Gross cost (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C ratio
Precaution measure not in practice (Farmers Practice)	15	18	40.8	17.1	26400	89760	63360	1.40
Foliar spray 0.1% Propiconazole at 5% ear initiation		5	47.8		29000	105160	73960	2.62

### PEST AND DISEASE MANAGEMENT

**Problem definition:** Heavy infestation of wilt and dry root rot disease in Lentil

**Technology Assessed or Refined (as the case may be):** IPM approach for wilt and dry root rot disease in

Technology Option	No. of trials	No. of infected ear/m <sup>2</sup> plants(%)	Yield (kg/ha)	% Increase in yield over farmer's practice	Gross cost (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C ratio
Seed treatment measure not in practice (Farmers Practice)	10	<i>Result awaited</i>						
summer deep ploughing, seed treatment with <i>Trichoderma viride</i> @4g/kg, soil application of <i>T.viride</i> @2.5kg/ha enriched in 100kg of FYM at sowing, neem cake@250kg/ha at sowing time and foliar spray of vitavax power@2g/l								

### LIVE STOCK ENTERPRISES

**Problem definition:** Low milk production in dairy buffaloes

**Technology Assessed or Refined (as the case may be):** Assessment of feeding By-Pass fat on health and production

KVK, Banda conducted trial to enhance the milk production in buffaloes reared by the farmers as the farmers practice results in low milk production. The technology includes supplementation of By-Pass fat

### Effect of feeding By-Pass fat on health and production

Technology Option	No.of trials	Milk yield per animal per day(lit.)
T1- Straw (5 kg) +Green Fodder (10 kg)	30	5.1
T2 – T1 + By-Pass fat		6.5

**Problem definition:** Poor growth and less body weight gain in Goats

**Technology Assessed or Refined (as the case may be):** Assessment of feeding Vitamin Supplement on health and production

KVK, Banda conducted trial to enhance the weight gain in goats reared by the farmers as the farmers practice results in less weight gain. The technology includes feeding Vitamin Supplement

### Effect of feeding Vitamin Supplement on body weight gain

Technology Option	No.of trials	B.wt Gain (gm/month)
T1- Grazing	28	900
T2 – T1 + Vitamin Supplement		1300

### DRUDGERY REDUCTION

**Problem Definition:** Reduction of Human drudgery through Hand Operated Vegetable Transplanter

**Technology Assessed or Refined (as the case may be):** To assess the level of human drudgery during traditional and mechanized methods of vegetable transplanting.

Comparative Ergonomic study on the assessment of the level of human drudgery during traditional and mechanized methods of vegetable transplanting has been performed. Physiological parameters of farmers were assessed to analyze the work capacity and productivity during traditional and mechanized methods of vegetable transplanting.

Treatments	Handgrip Strength	Blood Pressure	Heart Rate	Postural Discomfort (% Change)	Center of Gravity (% Change)	Drudgery Index
T <sub>1</sub> (Traditional Method)	21 Kg	134/91 mmHg	105	59 %	41	41
T <sub>2</sub> (Mechanized Method)	32 Kg	121/80 mmHg	74	19 %	28	21

Interference & Feed back	The level of human drudgery was highly reduced with Hand Operated Vegetable Transplanter as compare to traditional method of vegetable transplanting. The work capacity and work performance of the farmers was also improved.
Farmers Reaction	Majority of farmers of Banda District revealed that Hand Operated Vegetable Transplanter was energy and time saving farm equipment and very easy to operate.

### VALUE ADDITION

**Problem Definition:** Malnutrition among farm women and children

**Technology assessed or refined (as the case may be):** Value addition of coarse grains and green leafy vegetable in wheat flour to remediate the problem of malnutrition.

Preparation of Mathari with coarse grain flour to remediate the problem of iron deficiency anemia and vitamin A deficiency among farm women and children.

Treatments	Weight	BMI	Hemoglobin
T <sub>1</sub> (Traditional Method)	48	18	8.9
T <sub>2</sub> (Mechanized Method)	52	23	12

Interference & Feed back	The level of Hemoglobin has been raised among farm women and children after introducing iron and vitamin A enrich diet.
Farmers Reaction	Majority of farmers of Banda District revealed that addition of coarse grain and green leafy vegetables is very simple and easy methods to remediate the problem of malnutrition.

### AGRICULTURAL EXTENSION

**Problem definition:** Poor milk yield dairy animals due to incidence of reproductive problems

**Technology Assessed or Refined (as the case may be):** Effectiveness of extension teaching methods for managing reproductive problems in dairy animals.

Reproductive problems and associated infertility among cattle and buffalo pose considerable economic loss to farmers in terms of low returns and high veterinary expenses. It is mainly attributed to the lack of adoption of scientific know-how regarding management of reproductive problems among them. This warrants a need to ascertain the extent of adoption among farmers in scientific management of reproductive problems in dairy animals. Therefore, KVK, Banda has initiated the trial on effectiveness of different extension methods for reproductive management of dairy animals in the year 2021. In this trial a Booklet and a video which was developed by ICAR-NDRI, Karnal were shown to 8-8 farmers and their level of adoption of management of reproductive problems in dairy animals have been assessed and it was found that the level of adoption has increased by 13.80 and 14.41 per cent after exposure to booklet and video respectively to the farmers and the both extension methods was found significant at 0.05 level of significance in increasing adoption. It is also concluded that the among two extension method the video was found more effective in term of increase in adoption of scientific management of reproductive problems in dairy animals as it involves more number of senses i.e., the sense of seeing and hearing. The very fact that involvement of more number of senses allows people to grasp more information within stipulated time.

Extension teaching methods	Level of adoption (%)			't' value
	Pre	Post	Difference	
Booklet (n=8)	55.85	69.64	13.80	9.734**
Video (n=8)	58.24	72.65	14.41	9.243**

## II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2020-21 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1.	Wheat	Varietal	HYV DBW -107	Through Demonstration	5	45	75
2.	Paddy	Varietal	HYV (Pusa basmati -1718)	Through Demonstration	7	25	40
3.	Black Gram	Weed Control	Imazethapyr 10 SL @ 1.0l/ha	Through Demonstration	3	10	12
4.	Tomato	VE	HYV	Through Demonstration	7	10	3
5.	Tomato	VE	HYV	Through Demonstration	3	10	3
6.	Chilli	VE	HYV	Through Demonstration	6	10	3
7.	Chilli	VE	HYV	Through Demonstration	6	10	3
8.	Brinjal	VE	HYV	Through Demonstration	2	2	3
9.	Cauliflower	VE	HYV	Through Demonstration	5	15	3
10.	Okra	VE	HYV	Through Demonstration	3	12	3
11.	Onion	VE	HYV	Through Demonstration	8	20	3
12.	Sessame (ACRIP)	VE	HYV	Through Demonstration	9	30	12
13.	Brinjal	IPM	HYV	Through Demonstration	4	15	6
14.	Mustard	IPM	Giriraj	Through Demonstration	5	45	75
15.	Kitchen Garden	Kitchen Garden	Kitchen Garden Kit	Through Demonstration	10	100	1
16.	Buffalo	Feed Management	Mineral Mixture	Through Demonstration	5	45	
17.	Buffalo	Feed Management	Mineral Mixture	Through Demonstration	5	45	
18.	Sheep & Goat	Nutrient Management	Vitamin supplement	Through Demonstration	5	45	
19.	Sheep & Goat	Nutrient Management	Vitamin supplement	Through Demonstration	5	45	

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

b. Details of FLDs implemented during 2021 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Propo	Actual	SC/ST	Others	Total	
1.	Wheat	Varietal	HYV DBW - 107	Rabi 2020-21	6.0	6.0	4	14	18	
2.	Wheat	Varietal	HYV DBW - 107	Rabi 2021-22	10.0	10.0	3	22	25	
3.	Paddy	Varietal	HYV (Pusa basmati -1718)	Kharif 2021	5.0	5.2	1	12	13	
4.	Tomato	VE	HYV	Rabi, 2020-21	1	1	3	7	10	
5.	Chilli	VE	HYV	Rabi, 2020-21	1	1	4	6	10	
6.	Cauliflower	VE	HYV	Rabi, 2020-21	1	1	2	8	10	
7.	Okra	VE	HYV	Rabi, 2020-21	0.5	0.5	1	9	10	
8.	Onion	VE	HYV	Kharif,2020-21	0.5	0.6	-	10	10	
9.	Sessame (ACRIP)	VE	HYV	Kharif, 2021-22	6	6	3	12	15	
10.	Kitchen Garden	Kitchen Garden	Kitchen Garden Kit	Rabi 2020-21	1.5	1.5	60	40	100	

11.	Kitchen Garden	Kitchen Garden	Kitchen Garden Kit	Kharif (2020-21)	1.0	1.0	30	40	70	
12.	Buffalo	Feed Management	Mineral Mixture	Rabi 2020-21	7	7	-	7	7	
13.	Buffalo	Feed Management	Mineral Mixture	Rabi 2020-21	7	7	-	7	7	
14.	Sheep & Goat	Nutrient Management	Vitamin supplement	Rabi 2020-21	5	5	-	5	5	
15.	Sheep & Goat	Nutrient Management	Vitamin supplement	Rabi 2020-21	5	5	-	5	5	
16.	Paddy	IPM	Pant dhan-24	Kharif (2021)	6	12	5	25	30	
17.	Chickpea	IPM	JG-14	Rabi 2020-21	4	6	3	12	15	

### Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Wheat	Rabi 2020-21	Irrigated	Black soils	Low	Low	Medium	Paddy	Nov. 2 <sup>nd</sup> week	April, 2 <sup>nd</sup> week	12.75	2
Wheat	Rabi 2021-22	Irrigated	Black soils	Low	Low	Medium	Paddy	Nov. 2 <sup>nd</sup> week	-	-	-
Paddy	Kharif 2021	Irrigated	Black soils	Low	Low	Medium	Wheat	August, 1 <sup>nd</sup> week	Dec. 1 <sup>st</sup> week	825	36
Tomato	Rabi, 2020-21	Irrigated	Clay loam	low	Medium	Medium	Fallow	August, 1 <sup>nd</sup> week	Dec. 1 <sup>st</sup> week	25	2
Chilli	Rabi, 2020-21	Irrigated	Clay Loam	Low	Medium	Medium	Fallow	August, 1 <sup>nd</sup> week	Dec. 1 <sup>st</sup> week	25	2
Cauliflower	Rabi, 2020-21	Irrigated	Clay loam	low	Medium	Medium	Okra	Sept	Jan	25	2
Okra	Kharif, 2020-21	Irrigated	Clay loam	low	Medium	Medium	Cucurbits	July	Sept.	825	36
Onion	Kharif, 2020-21	Irrigated	Clay loam	low	Medium	Medium	Cucurbits	July	Oct.	825	36
Sesame (ACRIP)	Kharif, 2021-22	RF	Clay loam	low	Medium	Medium	Gram	July	Sept.	825	36
Paddy	Kharif (2021)	Irrigated	Clay loam	low	Medium	Medium	Wheat	August, 1 <sup>nd</sup> week	Dec. 1 <sup>st</sup> week	825	36
Chickpea	Rabi (2021-22)	RF	Black soils	low	Medium	Medium	Fallow	Nov. 2 <sup>nd</sup> week	-	-	-

### Technical Feedback on the demonstrated technologies

S. No	Feed Back
1. Okra (Kashi Kranti)	Resistant to YMV, medium plant height, 35-40 fruits/plant
2. Wheat	Heat tolerant variety, Good for late sowing condition in Rice-wheat crop rotation
3. Rice	Blast resistant basmati variety, Good for late harvesting condition in Rice-wheat crop rotation
4. Black Gram	The Satin (Imazaethapyr) @ 75% controlled almost all prevailed weed flora in Urd crop under Banda.
5. Brinjal (Hybrid)	Fruits are round in shape, profuse flowering and fruiting
6. IPM in Brinjal	It enhance the yield of Brinjal due to effective management of Shoot and fruit borer
7. Kitchen gardening	It promotes the food and nutritional security and helpful to combat the problem of malnutrition
8. IPM in Brinjal	It enhance the yield of Brinjal due to effective management of Shoot and fruit borer



9. Mineral Mixture application in Buffalo	It enhance the milk production by 10% in buffalo
10. Vitamin supplement application in Goat	It promotes the daily gain in body weight of goat. And the daily body weight gain was 115gm per day per animals.

#### Farmers' reactions on specific technologies

S. No	Feed Back
1. Wheat	Farmer liked this variety because of its greenery at maturity time and production.
2. Rice	Farmer liked this variety because of its tillering and production.
3. Black Gram	Farmer liked this weed control technology because of effective weed control and higher crop production.
4. Okra (Kashi Kranti)	Farmers liked the variety Kashi Kranti due to resistant to YMV and yield performance.
5. Cauliflower (HYV)	Farmers liked the hybrid variety due to better yield performance
6. Chilli (Hybrid)	Farmers liked the hybrid variety due to resistant to leaf curl virus and better yield performance
7. Tomato (Kashi Aman)	Farmers liked the variety Kashi Aman due to resistant to leaf curl virus and yield performance
8. Brinjal (Hybrid)	Maximum number of fruits per plant (22-25 fruits/plant) and resistant to mycoplasma disease but this variety preferred by the farmers of Banda
9. Kitchen gardening	Farmers were impressed with the concept of Kitchen gardening due to the availability of fresh and nutritious vegetables round the year. It was also cost effective.
10. IPM in Brinjal	Farmers were satisfied with the IPM technologies as it was low cost and locally manageable
11. IPM in Brinjal	Farmers were satisfied with the IPM technologies as it was low cost and locally manageable
12. Mineral mixture	Farmers were satisfied with the Mineral mixture technologies as it increase the milk production of buffalo
13. Vitamin supplements	Farmers were satisfied with the Vitamin supplements technologies as it enhances the daily gain in body weight of Goat.

#### Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	02	27.10.2021 10.11.2021	48	
2	Farmers Training	02	03.09.2021 16.11.2021	88	
3	Media coverage	02	27.10.2021 10.11.2021	mass	
4	Training for extension functionaries				

## Performance of Frontline demonstrations

### Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)			Check	% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)				
						Demo					Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)	
						High	Low	Average											
Groundnut																			
Sesamum																			
Mustard																			
Toria																			
Linseed																			
Sunflower																			
Soybean																			

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

## Frontline demonstration on pulse crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Pigeonpea																		
Blackgram																		
Greengram																		
Chickpea	IPM	IPM	JG-14	15	6	Result awaited												
Fieldpea																		
Lentil																		
Horsegram																		

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

## FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
<b>Cereals</b>																			
<b>Paddy</b>	Varietal	Pusa Basmati-1718	12	4.8	43.8	34.6	40.1	35.8	12.01			38500	124310	85810	3.23	36500	110980	74480	3.04
<b>Paddy</b>	IPM	IPM	30	12	47.2	40.8	44	40.8	15.6			29500	103840	74340	2.52	28500	89760	61260	2.14
<b>Waterlogged Situation</b>																			
<b>Coarse Rice</b>																			
<b>Scented Rice</b>																			
<b>Wheat</b>	Varietal	DBW 107	18	6	38.40	32.80	34.9	30.5	14.42			26600	82967	56367	3.12	25600	72998	47398	2.85
	Varietal	DBW 107	25	10								Result Awaited							
<b>Wheat Timely sown</b>																			
<b>Wheat Late Sown</b>																			
<b>Mandua</b>																			
<b>Barley</b>																			
<b>Maize</b>																			
<b>Amaranth</b>																			

<b>Millets</b>																		
<b>Jowar</b>																		
<b>Bajra</b>																		
<b>Barnyard millet</b>																		
<b>Finger millet</b>																		
<b>Vegetables</b>																		
<b>Bottlegourd</b>																		
<b>Bittergourd</b>																		
<b>Cowpea</b>																		
<b>Spongegourd</b>																		
<b>Petha</b>																		
<b>Tomato</b>	Varietal	HYV (Kashi Adarsh)	10	1	305	282	292.5	196	32.99		75800	292500	216700	3.85	67300	19600	128700	2.91
<b>Frenchbean</b>																		
<b>Capsicum</b>																		
<b>Chilli</b>	Varietal	HYV (Kashi Gaurav)	10	1	125	101	111	85	23.42		44500	111000	66500	2.49	43600	85000	41400	1.94
<b>Brinjal</b>																		
<b>Vegetable pea</b>																		

<b>Softgourd</b>																		
<b>Okra</b>	Varietal	F1 Hybrid	10	0.5	145	132	137	85	37.95		27600	137000	109400	4.96	23300	85000	64700	3.64
<b>Colocasia (Arvi)</b>																		
<b>Broccoli</b>																		
<b>Cucumber</b>																		
<b>Onion</b>	Varietal	HYV (L-883)	2	0.6	195	175	183.25	138	24.79		84500	366500	282000	4.33	81500	276000	194500	3.38
<b>Coriender</b>																		
<b>Lettuce</b>																		
<b>Cabbage</b>																		
<b>Cauliflower</b>	Varietal	HYV (Kashi Gobhi-25)	10	1	245	220	223.5	178	20.35		65400	178800	113400	2.73	61900	142400	80900	2.3
<b>Elephant fruit</b>																		
<b>Flower crops</b>																		
<b>Marigold</b>																		
<b>Bela</b>																		
<b>Tuberose</b>																		
<b>Gladiolus</b>																		

<b>Fruit crops</b>																				
<b>Mango</b>																				
<b>Strawberry</b>																				
<b>Guava</b>																				
<b>Banana</b>																				
<b>Papaya</b>																				
<b>Muskmelon</b>																				
<b>Watermelon</b>																				
<b>Spices &amp; condiments</b>																				
<b>Ginger</b>																				
<b>Garlic</b>																				
<b>Turmeric</b>																				
<b>Commercial Crops</b>																				
<b>Sugarcane</b>																				
<b>Potato</b>																				
<b>Medicinal &amp; aromatic plants</b>																				
<b>Mentholment</b>																				
<b>Kalmegh</b>																				







## FLD on Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)				
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)	
Common Carps																		
Composite fish culture																		
Feed Management																		

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

## FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit					
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)		
Oyster Mushroom																		
Button Mushroom																		
Apiculture																		
Maize Sheller																		

<b>Value Addition</b>																			
<b>Vermi Compost</b>																			

### FLD on Women Empowerment

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

### FLD on Farm Implements and Machinery

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

### FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Vegetables	Nutritional Security through kitchen gardening	Kitchen gardening kit	60	60	310	-	100	Easy availability and fresh veg.	-	210.00	1750.00	1380.00	8.33	-	-	-	-
Vegetables	Nutritional Security through kitchen gardening	Kitchen gardening kit	40	40	119		100	Easy availability and fresh veg.	-	260.00	1825.00	1565	7.01				
Vegetables	Nutritional Security through kitchen gardening	Kitchen gardening kit	70	70						<b>Result Awaited</b>							

**FLD on Demonstration details on crop hybrids** (*Details of Hybrid FLDs implemented during 2020*)

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)			Check	% Increase in yield	Economics of demonstration (Rs./ha)			
					Demo		Gross Cost			Gross Return	Net Return	BCR (R/C)	
					High	Low							Average
Oilseed crop													
Pulse crop													
Cereal crop													
Vegetable crop													
Fruit crop													
Other (specify)													

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

### III. Training Programme

#### Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>I Crop Production</b>										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	4	40	1	41	17	10	27	56	11	67
Soil & water conservatioin										
Integrated nutrient management	1	14	1	15	2	0	2	16	1	17
Production of organic inputs				0			0	0	0	0
Others (pl specify)			0	0		0	0	0	0	0
<b>Total</b>	<b>5</b>	<b>54</b>	<b>2</b>	<b>56</b>	<b>19</b>	<b>10</b>	<b>29</b>	<b>72</b>	<b>12</b>	<b>84</b>
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high valume crops	3	88	0	88	17	0	17	105	0	105
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation	1	32	0	32	5	0	5	37	0	37
Others (pl specify)				0			0	0	0	0
<b>Total (a)</b>	<b>4</b>	<b>120</b>	<b>0</b>	<b>120</b>	<b>22</b>	<b>0</b>	<b>22</b>	<b>142</b>	<b>0</b>	<b>142</b>
<b>b) Fruits</b>										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl specify)										
<b>Total (b)</b>										
<b>c) Ornamental Plants</b>										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
<b>Total (c)</b>										
<b>d) Plantation crops</b>										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
<b>Total (d)</b>										
<b>e) Tuber crops</b>										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
<b>Total (e)</b>										
<b>f) Spices</b>										
Production and Management technology										

Processing and value addition										
Others (pl specify)										
<b>Total (f)</b>										
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
<b>Total (g)</b>										
<b>GT (a-g)</b>	<b>4</b>	<b>120</b>	<b>0</b>	<b>120</b>	<b>22</b>	<b>0</b>	<b>22</b>	<b>142</b>	<b>0</b>	<b>142</b>
<b>III Soil Health and Fertility Management</b>										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
<b>Total</b>										
<b>IV Livestock Production and Management</b>										
Dairy Management	3	87	0	87	10	0	10	97	0	97
Poultry Management	1	26	0	26	6	0	6	32	0	32
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	27	0	27	7	0	7	34	0	34
Disease Management	3	74	2	76	25	0	25	99	2	101
Feed & fodder technology	1	26	0	26	7	0	7	33	0	33
Production of quality animal products	1	29	0	29	4	0	4	33	0	33
Others (pl specify)										
<b>Total</b>	<b>10</b>	<b>269</b>	<b>2</b>	<b>271</b>	<b>59</b>	<b>0</b>	<b>59</b>	<b>328</b>	<b>2</b>	<b>330</b>
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	2	0	30	30	0	30	30	0	60	60
Design and development of low/minimum cost diet	2	0	29	29	0	25	25	0	54	54
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Processing and cooking				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition				0			0	0	0	0
Women empowerment				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
<b>Total</b>	<b>4</b>	<b>0</b>	<b>59</b>	<b>59</b>	<b>0</b>	<b>55</b>	<b>55</b>	<b>0</b>	<b>114</b>	<b>114</b>
<b>VI Agril. Engineering</b>										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
<b>Total</b>										
<b>VII Plant Protection</b>										

Integrated Pest Management	5	129	20	149	40	2	42	169	22	191
Integrated Disease Management	3	78	17	95	13	2	15	91	19	110
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
<b>Total</b>	<b>8</b>	<b>207</b>	<b>37</b>	<b>244</b>	<b>53</b>	<b>4</b>	<b>57</b>	<b>260</b>	<b>41</b>	<b>301</b>
<b>VIII Fisheries</b>										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
<b>Total</b>										
<b>IX Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
<b>Total</b>										
<b>X Capacity Building and Group Dynamics</b>										
Leadership development				0			0	0	0	0
Group dynamics				0			0	0	0	0
Formation and Management of SHGs	1	0	13	13	0	12	12	25	0	25
Mobilization of social capital	1	0	18	18	0	3	3	0	21	21
Entrepreneurial development of farmers/youths	1	24	0	24	4	0	4	28	0	28
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	1	0	18	18	0	7	7	0	25	25
<b>Total</b>	<b>4</b>	<b>24</b>	<b>49</b>	<b>73</b>	<b>4</b>	<b>22</b>	<b>26</b>	<b>53</b>	<b>46</b>	<b>99</b>
<b>XI Agro-forestry</b>										
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>35</b>	<b>674</b>	<b>149</b>	<b>823</b>	<b>157</b>	<b>91</b>	<b>248</b>	<b>855</b>	<b>215</b>	<b>1070</b>

#### Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants										
		Others			SC/ST			Grand Total				
		Male	Female	Total	Male	Female	Total	Male	Female	Total		
<b>I Crop Production</b>												
Weed Management	0	0	0	0		0	0	0	0	0	0	

Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Micro Irrigation/irrigation				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management				0			0	0	0	0
Soil & water conservatioin				0			0	0	0	0
Integrated nutrient management	1	16	0	16	4	0	4	20	0	20
Production of organic inputs										
Others (pl specify) Crop Residue Management	1	19	0	19	4	0	4	23	0	23
<b>Total</b>	<b>2</b>	<b>35</b>	<b>0</b>	<b>35</b>	<b>8</b>	<b>0</b>	<b>8</b>	<b>43</b>	<b>0</b>	<b>43</b>
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high valume crops				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation	1	12	0	12	19	0	19	31	0	31
Others (pl specify)				0			0	0	0	0
<b>Total (a)</b>	<b>1</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>19</b>	<b>0</b>	<b>19</b>	<b>31</b>	<b>0</b>	<b>31</b>
<b>b) Fruits</b>										
Training and Pruning	1	30	0	30	0	0	0	30	0	30
Layout and Management of Orchards	1	18	0	18	12	0	12	30	0	30
Cultivation of Fruit	1	31	0	31	0	0	0	31	0	31
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
<b>Total (b)</b>	<b>3</b>	<b>79</b>	<b>0</b>	<b>79</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>91</b>	<b>0</b>	<b>91</b>
<b>c) Ornamental Plants</b>										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
<b>Total (c)</b>										
<b>d) Plantation crops</b>										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
<b>Total (d)</b>										
<b>e) Tuber crops</b>										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
<b>Total (e)</b>										
<b>f) Spices</b>										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
<b>Total (f)</b>										
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management										
Production and management technology										
Post harvest technology and value addition										



Others (pl specify)										
<b>Total (g)</b>										
<b>GT (a-g)</b>	<b>4</b>	<b>91</b>	<b>0</b>	<b>91</b>	<b>31</b>	<b>0</b>	<b>31</b>	<b>122</b>	<b>0</b>	<b>122</b>
<b>III Soil Health and Fertility Management</b>										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
<b>Total</b>										
<b>IV Livestock Production and Management</b>										
Dairy Management	1	24	0	24	6	3	9	30	3	33
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	26	0	26	4	0	4	30	0	30
Disease Management	3	86	0	86	11	0	11	97	0	97
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)	1	27	0	27	4	1	5	31	1	32
<b>Total</b>	<b>6</b>	<b>163</b>	<b>0</b>	<b>163</b>	<b>25</b>	<b>4</b>	<b>29</b>	<b>188</b>	<b>4</b>	<b>192</b>
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	2	0	32	32	0	21	21	0	53	53
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	5	0	75	75	0	55	55	0	130	130
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques	3	0	36	36	0	28	28	0	64	64
Value addition										
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
<b>Total</b>	<b>10</b>	<b>0</b>	<b>143</b>	<b>143</b>	<b>0</b>	<b>104</b>	<b>104</b>	<b>0</b>	<b>247</b>	<b>247</b>
<b>VI Agril. Engineering</b>										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
<b>Total</b>										
<b>VII Plant Protection</b>										
Integrated Pest Management	1	26	4	30	1	7	8	27	11	38
Integrated Disease Management	2	58	0	58	10	1	11	68	1	69
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides	1	18	6	24	2	3	5	20	9	29
Others (pl specify)				0			0	0	0	0
<b>Total</b>	<b>4</b>	<b>102</b>	<b>10</b>	<b>112</b>	<b>13</b>	<b>11</b>	<b>24</b>	<b>115</b>	<b>21</b>	<b>136</b>
<b>VIII Fisheries</b>										

Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl specify)										
<b>Total</b>										
<b>IX Production of Inputs at site</b>										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom Production										
Apiculture										
Others (pl specify)										
<b>Total</b>										
<b>X Capacity Building and Group Dynamics</b>										
Leadership development	1	18	0	18	4	0	4	22	0	22
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	1	24	0	24	1	0	1	25	0	25
WTO and IPR issues	3	70	0	70	25	0	25	95	0	95
Others (pl specify)				0			0	0	0	0
<b>Total</b>	<b>5</b>	<b>112</b>	<b>0</b>	<b>112</b>	<b>30</b>	<b>0</b>	<b>30</b>	<b>142</b>	<b>0</b>	<b>142</b>
<b>XI Agro-forestry</b>										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
<b>Total</b>										
<b>GRAND TOTAL</b>	<b>31</b>	<b>503</b>	<b>153</b>	<b>656</b>	<b>107</b>	<b>119</b>	<b>226</b>	<b>610</b>	<b>272</b>	<b>882</b>

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>I Crop Production</b>										
Weed Management	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Micro Irrigation/irrigation	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	4	40	1	41	17	10	27	56	11	67
Soil & water conservatioin	0	0	0	0	0	0	0	0	0	0

Integrated nutrient management	2	30	1	31	6	0	6	36	1	37
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Others (pl specify) Crop Residue Management	1	19	0	19	4	0	4	23	0	23
<b>Total</b>	<b>7</b>	<b>89</b>	<b>2</b>	<b>91</b>	<b>27</b>	<b>10</b>	<b>37</b>	<b>115</b>	<b>12</b>	<b>127</b>
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low value and high valume crops	3	88	0	88	17	0	17	105	0	105
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0	0	0
Exotic vegetables	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation	2	44	0	44	24	0	24	68	0	68
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total (a)</b>	<b>5</b>	<b>132</b>	<b>0</b>	<b>132</b>	<b>41</b>	<b>0</b>	<b>41</b>	<b>173</b>	<b>0</b>	<b>173</b>
<b>b) Fruits</b>										
Training and Pruning	1	30	0	30	0	0	0	30	0	30
Layout and Management of Orchards	1	18	0	18	12	0	12	30	0	30
Cultivation of Fruit	1	31	0	31	0	0	0	31	0	31
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total (b)</b>	<b>3</b>	<b>79</b>	<b>0</b>	<b>79</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>91</b>	<b>0</b>	<b>91</b>
<b>c) Ornamental Plants</b>										
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total (c)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>d) Plantation crops</b>										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total (d)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>e) Tuber crops</b>										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total (e)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>f) Spices</b>										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total (f)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total (g)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GT (a-g)</b>	<b>8</b>	<b>211</b>	<b>0</b>	<b>211</b>	<b>53</b>	<b>0</b>	<b>53</b>	<b>264</b>	<b>0</b>	<b>264</b>
<b>III Soil Health and Fertility Management</b>										
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Integrated water management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0

Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Balance use of fertilizers	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>IV Livestock Production and Management</b>										
Dairy Management	4	111	0	111	16	3	19	127	3	130
Poultry Management	1	26	0	26	6	0	6	32	0	32
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	2	53	0	53	11	0	11	64	0	64
Disease Management	6	160	2	162	36	0	36	196	2	198
Feed & fodder technology	1	26	0	26	7	0	7	33	0	33
Production of quality animal products	1	29	0	29	4	0	4	33	0	33
Others (pl specify)	1	27	0	27	4	1	5	31	1	32
<b>Total</b>	<b>16</b>	<b>432</b>	<b>2</b>	<b>434</b>	<b>84</b>	<b>4</b>	<b>88</b>	<b>516</b>	<b>6</b>	<b>522</b>
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	4	0	62	62	0	51	51	0	113	113
Design and development of low/minimum cost diet	2	0	29	29	0	25	25	0	54	54
Designing and development for high nutrient efficiency diet	5	0	75	75	0	55	55	0	130	130
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Processing and cooking	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	3	0	36	36	0	28	28	0	64	64
Value addition	0	0	0	0	0	0	0	0	0	0
Women empowerment	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>14</b>	<b>0</b>	<b>202</b>	<b>202</b>	<b>0</b>	<b>159</b>	<b>159</b>	<b>0</b>	<b>361</b>	<b>361</b>
<b>VI Agril. Engineering</b>										
Farm Machinery and its maintenance	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>VII Plant Protection</b>										
Integrated Pest Management	6	155	24	179	41	9	50	196	33	229
Integrated Disease Management	5	136	17	153	23	3	26	159	20	179
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	1	18	6	24	2	3	5	20	9	29
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>12</b>	<b>309</b>	<b>47</b>	<b>356</b>	<b>66</b>	<b>15</b>	<b>81</b>	<b>375</b>	<b>62</b>	<b>437</b>
<b>VIII Fisheries</b>										
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0

Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>IX Production of Inputs at site</b>										
Seed Production	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>X Capacity Building and Group Dynamics</b>										
Leadership development	1	18	0	18	4	0	4	22	0	22
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	1	0	13	13	0	12	12	25	0	25
Mobilization of social capital	1	0	18	18	0	3	3	0	21	21
Entrepreneurial development of farmers/youths	2	48	0	48	5	0	5	53	0	53
WTO and IPR issues	3	70	0	70	25	0	25	95	0	95
Others (pl specify)	1	0	18	18	0	7	7	0	25	25
<b>Total</b>	<b>9</b>	<b>136</b>	<b>49</b>	<b>185</b>	<b>34</b>	<b>22</b>	<b>56</b>	<b>195</b>	<b>46</b>	<b>241</b>
<b>XI Agro-forestry</b>										
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>66</b>	<b>1177</b>	<b>302</b>	<b>1479</b>	<b>264</b>	<b>210</b>	<b>474</b>	<b>1465</b>	<b>487</b>	<b>1952</b>

#### Training for Rural Youths including sponsored training programmes (On campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	2	30	10	40	7	0	7	37	10	47
Training and pruning of orchards	0			0			0	0	0	0
Protected cultivation of vegetable crops	0			0			0	0	0	0
Commercial fruit production	0			0			0	0	0	0
Integrated farming	0			0			0	0	0	0
Seed production	0			0			0	0	0	0
Production of organic inputs	1	25	0	25	6	0	6	31	0	31
Planting material production										
Vermi-culture										

Mushroom Production	1	31	0	31	10	0	10	41	0	41
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	1	0	22	22	0	9	9	0	31	31
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts	1	0	26	26	0	11	11	0	37	37
Production of quality animal products										
Dairying	1	24	0	24	6	0	6	30	0	30
Sheep and goat rearing	0			0			0	0	0	0
Quail farming	0			0			0	0	0	0
Piggery	0			0			0	0	0	0
Rabbit farming	0			0			0	0	0	0
Poultry production	0			0			0	0	0	0
Ornamental fisheries	0			0			0	0	0	0
Composite fish culture	0			0			0	0	0	0
Freshwater prawn culture	0			0			0	0	0	0
Shrimp farming	0			0			0	0	0	0
Pearl culture	0			0			0	0	0	0
Cold water fisheries	0			0			0	0	0	0
Fish harvest and processing technology	0			0			0	0	0	0
Fry and fingerling rearing	0			0			0	0	0	0
Any other (pl.specify)	0			0			0	0	0	0
<b>TOTAL</b>	<b>7</b>	<b>110</b>	<b>58</b>	<b>168</b>	<b>29</b>	<b>20</b>	<b>49</b>	<b>139</b>	<b>78</b>	<b>217</b>

### Training for Rural Youths including sponsored training programmes (Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	0			0			0	0	0	0
Training and pruning of orchards	0			0			0	0	0	0
Protected cultivation of vegetable crops	0			0			0	0	0	0
Commercial fruit production	0			0			0	0	0	0
Integrated farming	0			0			0	0	0	0
Seed production	0			0			0	0	0	0
Production of organic inputs	0			0			0	0	0	0
Planting material production	0			0			0	0	0	0
Vermi-culture	0			0			0	0	0	0
Mushroom Production	0			0			0	0	0	0
Bee-keeping	0			0			0	0	0	0
Sericulture	0			0			0	0	0	0
Repair and maintenance of farm machinery and implements	0			0			0	0	0	0
Value addition	0			0			0	0	0	0
Small scale processing	0			0			0	0	0	0
Post Harvest Technology	0			0			0	0	0	0
Tailoring and Stitching	0			0			0	0	0	0
Rural Crafts	0			0			0	0	0	0
Production of quality animal products	0			0			0	0	0	0
Dairying	0			0			0	0	0	0
Sheep and goat rearing	1	26	0	26	8	0	8	34	0	34
Quail farming	0			0			0	0	0	0
Piggery	0			0			0	0	0	0
Rabbit farming	0			0			0	0	0	0
Poultry production	0			0			0	0	0	0
Ornamental fisheries	0			0			0	0	0	0
Composite fish culture	0			0			0	0	0	0
Freshwater prawn culture	0			0			0	0	0	0
Shrimp farming	0			0			0	0	0	0
Pearl culture	0			0			0	0	0	0
Cold water fisheries	0			0			0	0	0	0
Fish harvest and processing technology	0			0			0	0	0	0
Fry and fingerling rearing	0			0			0	0	0	0
Any other (pl.specify)	0			0			0	0	0	0
<b>TOTAL</b>	<b>1</b>	<b>26</b>	<b>0</b>	<b>26</b>	<b>8</b>	<b>0</b>	<b>8</b>	<b>34</b>	<b>0</b>	<b>34</b>

### Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	2	30	10	40	7	0	7	37	10	47
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	1	25	0	25	6	0	6	31	0	31
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0
Mushroom Production	1	31	0	31	10	0	10	41	0	41
Bee-keeping	0	0	0	0	0	0	0	0	0	0

Sericulture	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Value addition	1	0	22	22	0	9	9	0	31	31
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	1	0	26	26	0	11	11	0	37	37
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	1	24	0	24	6	0	6	30	0	30
Sheep and goat rearing	1	26	0	26	8	0	8	34	0	34
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Any other (pl.specify)	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>8</b>	<b>136</b>	<b>58</b>	<b>194</b>	<b>37</b>	<b>20</b>	<b>57</b>	<b>173</b>	<b>78</b>	<b>251</b>

#### Training programmes for Extension Personnel including sponsored training programmes (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	0			0			0	0	0	0
Integrated Pest Management	0			0			0	0	0	0
Integrated Nutrient management	0			0			0	0	0	0
Rejuvenation of old orchards	0			0			0	0	0	0
Protected cultivation technology	0			0			0	0	0	0
Production and use of organic inputs	0			0			0	0	0	0
Care and maintenance of farm machinery and implements	0			0			0	0	0	0
Gender mainstreaming through SHGs	0			0			0	0	0	0
Formation and Management of SHGs	0			0			0	0	0	0
Women and Child care	1	0	29	29	0	7	7	0	36	36
Low cost and nutrient efficient diet designing	0			0			0	0	0	0
Group Dynamics and farmers organization	1	25	0	25	10		10	35	0	35
Information networking among farmers	0			0			0	0	0	0
Capacity building for ICT application	0			0			0	0	0	0
Management in farm animals	0			0			0	0	0	0
Livestock feed and fodder production	0			0			0	0	0	0
Household food security	0			0			0	0	0	0
Any other (pl.specify)	0			0			0	0	0	0
<b>TOTAL</b>	<b>2</b>	<b>25</b>	<b>29</b>	<b>54</b>	<b>10</b>	<b>7</b>	<b>17</b>	<b>35</b>	<b>36</b>	<b>71</b>

#### Training programmes for Extension Personnel including sponsored training programmes (off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	2	71	0	71	40	0	40	111	0	111
Integrated Nutrient management										



Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	1	12	0	12	5	0	5	17		17
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application	1	20	8	28	4	7	11	24	15	39
Management in farm animals	1	24	0	24	9	0	9	33	0	33
Livestock feed and fodder production										
Household food security										
Any other (pl.specify) Crop residue management	1	20	0	20	8	0	8	28	0	28
<b>TOTAL</b>	<b>6</b>	<b>147</b>	<b>8</b>	<b>155</b>	<b>66</b>	<b>7</b>	<b>73</b>	<b>213</b>	<b>15</b>	<b>228</b>

**Training programmes for Extension Personnel including sponsored training programmes –  
CONSOLIDATED (On + Off campus)**

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	2	71	0	71	40	0	40	111	0	111
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	1	12	0	12	5	0	5	17	0	17
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Women and Child care	1	0	29	29	0	7	7	0	36	36
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	1	25	0	25	10	0	10	35	0	35
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	1	20	8	28	4	7	11	24	15	39
Management in farm animals	1	24	0	24	9	0	9	33	0	33
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0
Any other (pl.specify) Crop Residue Management	1	20	0	20	8	0	8	28	0	28
<b>TOTAL</b>	<b>8</b>	<b>172</b>	<b>37</b>	<b>209</b>	<b>76</b>	<b>14</b>	<b>90</b>	<b>248</b>	<b>51</b>	<b>299</b>

**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
<b>Crop production and management</b>										
Increasing production and productivity of crops										
Commercial production of vegetables										
<b>Production and value addition</b>										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
<b>Total</b>										
<b>Post harvest technology and value addition</b>										

Processing and value addition										
Others (pl. specify)										
<b>Total</b>										
<b>Farm machinery</b>										
Farm machinery, tools and implements										
Others (pl. specify)										
<b>Total</b>										
<b>Livestock and fisheries</b>										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
<b>Total</b>										
<b>Home Science</b>										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
<b>Total</b>										
<b>Agricultural Extension</b>										
Capacity Building and Group Dynamics										
Others (pl. specify)										
<b>Total</b>										
<b>GRAND TOTAL</b>										

### Name of sponsoring agencies involved

### Details of vocational training programmes carried out by KVKs for rural youth

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>Crop production and management</b>										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
<b>Total</b>										
<b>Post harvest technology and value addition</b>										
Value addition										
Others (pl. specify)										
<b>Total</b>										
<b>Livestock and fisheries</b>										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
<b>Total</b>										
<b>Income generation activities</b>										
Vermicomposting										
Production of bio-agents, bio-pesticides, bio-fertilizers etc.										
Repair and maintenance of farm machinery and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dyeing etc.										
Agri. para-workers, para-vet training										

Others (pl. specify)									
<b>Total</b>									
<b>Agricultural Extension</b>									
Capacity building and group dynamics									
Others (pl. specify)									
<b>Total</b>									
<b>Grand Total</b>									

#### IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	88	1500	110	1610
Diagnostic visits	50	620	20	640
Field Day	12	400	23	423
Group discussions	6	34	12	46
Kisan Ghosthi	20	2000	90	2090
Film Show	2	45	6	51
Self -help groups				0
Kisan Mela	4	15000	460	15460
Exhibition	3	1200	62	1262
Scientists' visit to farmers field	46	520	44	564
Plant/animal health camps	2	165	6	171
Farm Science Club				0
Ex-trainees Sammelan				0
Farmers' seminar/workshop	1	34	32	66
Method Demonstrations	4	22	5	27
Celebration of important days	4	1500	7	1507
Special day celebration	11	920	26	946
Exposure visits	4	60	3	63
Others (pl. specify)				0
<b>Total</b>	<b>257</b>	<b>24020</b>	<b>906</b>	<b>24926</b>

#### Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	
Extension Literature	2
News paper coverage	80
Popular articles	5
Radio Talks	
TV Talks	1
Animal health camps (Number of animals treated)	110
Others (pl. specify)	
<b>Total</b>	<b>198</b>

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	
Banda	Text only	16	8	11	4	15		54
	Voice only							
	Voice & Text both							
	<b>Total Messages</b>	<b>16</b>	<b>8</b>	<b>11</b>	<b>4</b>	<b>15</b>		<b>54</b>
	<b>Total farmers Benefitted</b>	<b>1400</b>	<b>600</b>	<b>1200</b>	<b>200</b>	<b>1300</b>		<b>4700</b>

## V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies	2	60	
	Lectures organised	8	120	
	Exhibition			
	Film show			
	Fair			
	Farm Visit	2	123	
	Diagnostic Practicals			
	Distribution of Literature (No.)	2	223	
	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			
		<b>14</b>	<b>526</b>	

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

### Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Wheat	DBW 107		52.6	205929	175
	Paddy	Pant Dhan 24		125	437500	To be Processed
Oilseeds						
Pulses	Lentil	IPL 316		18	144000	45
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others						
<b>Total</b>				<b>195.6</b>	<b>787429</b>	<b>220</b>

**Production of planting materials by the KVKs**

<b>Crop</b>	<b>Name of the crop</b>	<b>Name of the variety</b>	<b>Name of the hybrid</b>	<b>Number</b>	<b>Value (Rs.)</b>	<b>Number of farmers</b>
Commercial						
Vegetable seedlings						
	Brinjal	Kashi Uttam		3500		50
	Chilli	Kashi Anmol		6000		60
	Tomato	Kashi Aman		8500		91
	Cauliflower	Kashi Gobhi 25		10000		120
Fruits	Papaya	Red Lady		250		40
	Jack fruit	Seedling		50		20
	Citrus	Seedling		100		15
	Karonda	Seedling		170		15
	Jamun	Seedling		40		10
Ornamental plants						
	Baugain villia	Seedling		50		10
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
	Napier	Sapling		1000		50
Forest Species						
Others						
<b>Total</b>				<b>29660</b>		<b>481</b>

### Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Bio Fertilisers	Nadep compos	1000		
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others				
<b>Total</b>		<b>1000</b>		

**Table: Production of livestock materials**

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
<b>Dairy animals</b>				
Cows	Tharparkar	1		
Buffaloes				
Calves				
Others (Pl. specify)				
<b>Poultry</b>				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
<b>Piggery</b>				
Piglet				
Others (Pl. specify)				
<b>Fisheries</b>				
Indian carp				
Exotic carp				
Others (Pl. specify)				
<b>Total</b>		<b>1</b>		

## VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	253	235	12	
Water				
Plant				
Manure				
Others (pl.specify)				
<b>Total</b>	<b>253</b>	<b>235</b>	<b>12</b>	<b>0</b>

## VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted	Date of SAC
Banda	1	28.10.2021

## IX. NEWSLETTER/MAGAZINE

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

## X. PUBLICATIONS

Category	Number
Books	1
Training Manual	3
Book Chapter	3
Research papers	11
Seminar Papers	14
Technical bulletins	2
Technical reports	8
Others (pl. specify)	
<b>Total</b>	<b>42</b>

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

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

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

### Introduction of alternate crops/varieties

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

### Major area coverage under alternate crops/varieties

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

### Farmers-scientists interaction on livestock management

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

### Animal health camps organised

Number of camps	No.of animals	No.of farmers
<b>Two</b>	<b>110</b>	
<b>Total</b>	<b>110</b>	

### Seed distribution in drought hit states

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

### Large scale adoption of resource conservation technologies

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

### Awareness campaign

	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
<b>Total</b>												



### XIII. DETAILS ON HRD ACTIVITIES

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

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

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

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

**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

**A. Details on ATICs**

S. No	Name of the ATIC	Name of the Host Institute	Name of the ATIC Manager

**B. Details on Farmer's visit**

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

**C. Facilities in the ATIC which are in operation**

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

**D. Technology information provided****D.1. Details on technology information**

S. No	Information category	Number of ATICs	Total number of farmers benefitted	Category of information						
				Varieties / hybrids	Pest management	Disease management	Agro-techniques	Soil and water conservation	Post Harvest technology and Value addition	Animal Husbandry and fisheries
01	Kisan Call Centre / other Phone calls from farmers									
02	Video shows									
03	Letters received									
04	Letters replied									
05	Training to farmers / technocrats / students									
06	Others pl. specify									

**D.2 . Publications (Print & Electronic media)**

S. No	Particulars	Number sold	Revenue generated in Rs.	Number of farmers benefited
01	Books			
02	Technical bulletins			
03	Technology Inventory			
04	CDs			
05	DVDs			

06	Video films			
07	Audio CDs			
08	Others if any (please specify)			

### E. Technology Products provided

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

### F. Technology services provided

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

## XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION

States covered:

Number of Directorates of Extension:

### A. Details on Directors of Extension

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

### B. Workshops / meetings organized

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

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

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

**D. Overseeing of KVKs activities**

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

**E. Publication on Technology inventory**

<b>S. No.</b>	<b>Particulars</b>	<b>Number</b>
01	Directorates published the technological inventory	
02	Directorates constantly updating the technological inventory	

**F. Technological Products provided to KVKs**

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

## XVI Achievement of Special programmes

### 1) Achievement of skill development training funded by DAC&FW

S. No.	Name of QP/Job role	Duration (hrs)	No. of Courses Organised	No. of Participants						
				SCs/STs		Others		Total		TOTAL
				Male	Female	Male	Female	Male	Female	
1	Agriculture Extension Service Provider	200	1	1	1	17	1	18	2	20
2	Agriculture Machinery Demonstrator	200								
3	Agriculture Machinery Operator	200								
4	Agriculture Machinery Repair and Maintenance Service Provider	200								
5	Animal Health Worker	300								
6	Aquaculture Technician	200								
7	Aquaculture Worker	200								
8	Aquarium Technician	200								
9	Artificial Insemination Technician	400								
10	Assistant Gardener	200								
11	Beekeeper	200								
12	Brackishwater Aquaculture Farmer	210								
13	Broiler Farm Worker	200								
14	Citrus Fruit Grower	200								
15	Community Service Provider	200								
16	Dairy Farmer - Entrepreneur	200	1	5	0	15	0	20	0	20
17	Fish Seed Grower	210								
18	Floriculturist - Open cultivation	200								
19	Floriculturist - Protected cultivation	200								
20	Forest Nursery Raiser	200								
21	Freshwater Aquaculture Farmer	200								
22	Friends of Coconut Tree	200								
23	Greenhouse Operator	200								
24	Group Farming Practitioner	200								
25	Harvesting Machine Operator	200								
26	Hatchery (Fishery) Production Worker	200								
27	Layer Farm Worker	200								
28	Mango Grower	200								

29	Medicinal Plants Cultivator	200								
30	Micro Irrigation Technician	200								
31	Mushroom Grower	200	1	4	0	15	1	19	1	20
32	Nursery Worker	200								
33	Organic Grower	200								
34	Ornamental Fish Technician	200								
35	Packhouse Worker	200								
36	Quality Seed Grower	200								
37	Seed Processing Plant Technician	200								
38	Sericulturist	200								
39	Service and Maintenance Technician-Farm Machinery	205								
40	Shrimp Farmer	240								
41	Small poultry farmer	240								
42	Soil & Water Testing Lab Analyst	240								
43	Soil & Water Testing Lab Assistant	200								
44	Supply Chain Field Assistant	200								
45	Tea Plantation Worker	200								
46	Tractor Operator	200								
47	Vermicompost Producer	200								
	<b>TOTAL</b>		<b>3</b>	<b>10</b>	<b>1</b>	<b>47</b>	<b>2</b>	<b>57</b>	<b>3</b>	<b>60</b>

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

### a) CRM Machinery procured by KVKs

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

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

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

**b) Other IEC activities organized under CRM Project by KVKs**

S. No.	Name of IEC activity	No. of activities
1.	Advertisement in Print media	
2.	Column / Articles in newspaper and magazines etc.	
3.	Hoarding fixed (at Mandi/ Road side/Market/ Schools/ Petrol pump/ Panchayat etc.)	
4.	Poster/Banner placed	
5.	Publicity material - leaflets/ pamphlets etc. distributed	
6.	TV programmes/ panel discussions Doordarshan/ DD-Kisan and other private channels	
7.	Wall writing	
	<b>Total</b>	

**3) Achievement of TSP (Tribal Sub Plan)**

Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		Number of farmers involved			Participants in extension activities (No.)	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains (Number in lakh)	Production of fingerlings (Number in lakh)	Testing of Soil, water, plant, manures samples (Number)
No. of Trainings/Demos	No. of Farmers	No. of Trainings/Demos	No. of Women Farmers	No. of Trainings/Demos	No. of Youths	No. of Trainings/Demos	No. of Ext. Person	On- farm trials	Frontline demos	Mobile agro-advisory to farmers						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

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

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

5) Achievements of SCSP KVKs

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

6) Achievement under IFS KVKs

Sl. No.	Component Name	No. of Components established	Area (ha)	Number of Activities		No. of farmers benefited	
				Demo	Training	Demo	Training
1.	Dairy unit	1	0.1				
2.	Crop Production	1	0.6				
3.	Orchard	1	0.25				
4.	Vermicompost/NADEP/Pond	2	0.05				



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

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

8) Achievements of Farmers FIRST programme

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

9) Activities performed under NARI programme

Table-9.1: Details of activities performed under NARI programme

Nutritional Garden		Bio-fortified crops		Value addition		Training programmes		Extension activities	
No of Established	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries
1	10	1	5	1	5	5	175	6	455

Table-9.2: Details of Bio-Fortified Crops used for nutritional security under NARI programme

Category	Bio Fortified Crop	Variety	Area (ha)	No of Beneficiaries
Cereal	Maize			
	Rice			
	Wheat			

Millet	Finger millet			
	Pearlmillet			
	Sorghum			
Oilseed	Groundnut			
	Mustard			
Pulses	Lentil			
	Lathyras			
Vegetable	Cauliflower			
Tuber	Sweet Potato			
<b>Total</b>				

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

Sample	No. of Samples in lakh	No. of Farmers in lakh	No. of Villages in lakh	Amount realized (Rs. in lakhs)	No. of Soil Health Cards issued (lakhs)
Soil	0.000253	0.000235	0.000012		0.001012
Water					
Plant					
Manure					
<b>Total</b>	<b>0.000253</b>	<b>0.000235</b>	<b>0.000012</b>		<b>0.001012</b>

### 11) Achievements under NICRA Project

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

### 12) Achievements under ARYA Project

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

### 13) Achievements under Rainwater Harvesting Structures

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

**14) Achievements under Pulses Seed Hub programme**

Season/Crop	Name of Pulse crop	Variety	Production			Category of seed (F/S, C/S)	Distributed to No. of farmers
			Target (q)	Area sown (ha)	Actual Production (q)		
Kharif	Black gram						
	Green Gram						
	Pigeon pea						
<b>Total (Kharif)</b>							
Rabi	Chick pea						
	Field pea						
	Lentil						
<b>Total (Rabi)</b>							
Summer	Black gram						
<b>Total (Summer)</b>							
<b>Grand Total</b>							

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

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

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

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

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

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

**18) Achievements under Swachhata Abhiyan Mission**

S.No.	Items	No. of Programmes	No. of persons paticipated
1	Toilet maintenance	2	12
2	Road, drain cleaning	3	26
3	Garbage disposal	5	42
4	Door to door awareness	2	51
5	Awareness campaign	3	64
6	Nookkad Drama		
7	School Drama		
8	School rally		
9	Writing paining slogans		
10	Composting	2	18
11	Other		

### 19) Achievements under Aspirational District Scheme

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

### XVI Awards

S.No.	Name of Award received	Name of KVK/farmer	Year of Award	Date on which award received
1.	Appreciation award for outstanding performance of KVK by Hon'ble vice Chancellor, BUAT, Banda	<b>KVK, Banda</b>	<b>2021</b>	<b>26.01.2021</b>
2.	Best Presentation Award	<b>KVK, Banda</b>	<b>2021</b>	<b>17.06.2021</b>

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

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