

PROFORMA FOR PREPARATION OF ANNUAL REPORT (Jan to December 2022)

APR SUMMARY

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

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	55	1240	403	1643
Rural youths	3	41	33	74
Extension functionaries	5	79	79	158
Sponsored Training	1	51	3	54
Vocational Training	-	-	-	-
Total	64	1411	518	1929

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	-	-	-
Pulses	35	14	-
Cereals	71	28.4	-
Vegetables	-	-	-
Other crops	-	-	-
Hybrid crops	-	-	-
Total	106	42.4	
Livestock & Fisheries	45		90
Other enterprises (Kitchen Garden)	70	1.75	-
Total	115	1.75	90
Grand Total	221	44.15	90

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	06	50	50
Livestock	02	50	25
Various enterprises	01	20	20
Total	09	120	95
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	09	120	95

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	157	29246
Other extension activities	94	5400
Total	251	34646

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						Total
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprise	
	Text only	36		48		24		108
	Voice only	-	-	-	-	-	-	-
	Voice & Text both	-	-	-	-	-	-	-
	Total Messages	36		48		24		108
	Total farmers Benefitted	5526		512		5526		11564

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	206.45	
Planting material (No.)	30000	
Bio-Products (kg)	-	
Livestock Production (No.)	01	
Fishery production (No.)	-	

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil - 250	200	
Water		
Plant		
Total - 250	200	

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	01
2	Conferences	-
3	Meetings	-
4	Trainings for KVK officials	-
5	Visits of KVK officials	-
6	Book published	-
7	Training Manual/Bulletin	04
8	Book chapters	-
9	Research papers	02
10	Lead papers	-
11	Seminar papers	-
12	Extension folder	06
13	Proceedings	-
14	Award & recognition	01
15	On going research projects	-

DETAIL REPORT OF APR-2022

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		kvkbanda@gmail.com

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		Doe.buat@gmail.com

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:

1.5. Staff Position (as on 31st December, 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Subject	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	152300	13.12.2017	Permanent	SC	9450791440	54	Kvkbanda@gmail.com
2	Subject Matter Specialist	Vacant	Scientist	Horticulture	15600-39100	-	-	-	-	-	-	-
3	Subject Matter Specialist	Dr. Pragya Ojha	Scientist	Home Science	15600-39100	65000	12.12.2017	Permanent	Others	9458891879	33	Kvkbanda@gmail.com
4	Subject Matter Specialist	Dr. Manjul Pandey	Scientist	Plant Protection	15600-39100	65000	12.12.2017	Permanent	Others	6394584646	45	Kvkbanda@gmail.com
5	Subject Matter Specialist	Dr. Manvendra Singh	Scientist	Animal Science	15600-39100	65000	15.12.2017	Permanent	Others	8168313754	38	Kvkbanda@gmail.com
6	Subject Matter Specialist	Dr. Diksha Patel	Scientist	Agriculture Extension	15600-39100	63100	16.04.2018	Permanent	Others	7404797378	31	Kvkbanda@gmail.com
7	Subject Matter Specialist	Vacant	Scientist	Agronomy	15600-39100	-	-	-	-	-	-	-
8	Programme Assistant	Vacant	Farm Manager/Lab Asstt.	-	9300-34500	-	-	-	-	-	-	-
9	Computer Programmer	Er. Ajeet Kr Nigam	Computer Programmer	-	9300-34500	41100		Permanent	Others	8960987567	37	Kvkbanda@gmail.com
10	Farm Manager	Vacant	Farm Manager/Lab Asstt.	-	9300-34500	-	-	-	Others	-	-	-
11	Accountant / Superintendent	Shri Abhishek Shahi	Accountant	-	9300-34500	41100	11.12.2017	Permanent	Others	7897830330	31	Kvkbanda@gmail.com
12	Stenographer	Shri Sarad Chandra	Stenographer	-	5200-20200	29600	11.12.2017	Permanent	Others	9648711425	38	Kvkbanda@gmail.com
13	Driver	Shri Chandra Skekhar	Driver	-	5200-20200	25200	11.12.2017	Permanent	Others	9556407161	46	Kvkbanda@gmail.com
14	Driver	Shri Vikas Gupta	Driver	-	5200-20200	25200	11.12.2017	Permanent	Others	7379539458	30	Kvkbanda@gmail.com
15	Supporting staff	Shri Raghuvveer	Peon	-	18000-56	28000	01.06.2010	Permanent	SC	9452226449	52	Kvkbanda@gmail.com

16	Supporting staff	Shri Preetam	Peon	-	5200-20200	27200	01.09.2010	Permanent	SC		48	Kvkbanda@gmail.com
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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			7700000.00	2011		Only Roof level construction
2.	Farmers Hostel	ICAR			2550000.00	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

वैज्ञानिक सलाहकार समिति की दिनांक 11.11.2022 को आयोजित छठवीं बैठक का कार्यवृत्त

माननीय कुलपति महोदय की अध्यक्षता में दिनांक 11.11.2022 को कृषि विज्ञान केन्द्र, बाँदा की वैज्ञानिक सलाहकार समिति की छठवीं बैठक केन्द्र के प्रशिक्षण कक्ष में सम्पन्न हुयी। इस बैठक में निम्न लिखित सदस्यों (जनपद के अधिकारी, वैज्ञानिक एवं प्रगतिशील कृषकों) ने प्रतिभाग किया—

1.	प्रो० (डा०) एन०पी० सिंह, मा० कुलपति महोदय, बी०यू०ए०टी, बाँदा	12.	श्री शान्ति भूषण, प्रगतिशील कृषक
2.	प्रो० (डा०) एन०के० बाजपेयी, निदेशक प्रसार	13.	श्री अशोक सिंह, प्रगतिशील कृषक
3.	डा० नरेन्द्र सिंह, सह निदेशक प्रसार	14.	श्री विज्ञान शुक्ला, प्रगतिशील कृषक
4.	डा० आनन्द सिंह, सह निदेशक प्रसार	15.	श्री राम सिंह कछवाह, प्रगतिशील कृषक
5.	डा० जी०एस० पवार, अधिष्ठाता कृषि महाविद्यालय	16.	डा० श्याम सिंह, अध्यक्ष कृषि विज्ञान केन्द्र
6.	डा० संजीव कुमार, अधिष्ठाता वानिकी महाविद्यालय	17.	डा० मंजुल पाण्डेय, वि०व०वि० फसल सुरक्षा
7.	डा० मयंक दुबे, सहायक प्राध्यापक पशुधन उत्पादन एवं प्रबन्धन	18.	डा० मानवेन्द्र सिंह, वि०व०वि०, पशु विज्ञान
8.	डा० मनोज अवरथी, उपनिदेशक पशुपालन	19.	डा० दीक्षा पटेल, वि०व०वि०, कृषि प्रसार
9.	श्री राजेन्द्र कुमार, जिला उद्यान अधिकारी	20.	ई० अजीत कुमार निगम, कार्यक्रम सहायक कम्प्यूटर
10.	श्री प्रतीक चौबे, क्षेत्रीय प्रबन्धक, इफको, बाँदा	21.	श्री कमल नारायण, स्टेनोग्राफर
11.	श्रीमती सीमा खान, समाजसेविका	22.	श्री धर्मेन्द्र कुमार सिंह, एस०आर०एफ० (निकरा परियोजना)

बैठक का शुभारम्भ दीप प्रज्ज्वलन कर किया गया। केन्द्र के अध्यक्ष डा० श्याम सिंह द्वारा मा० कुलपति महोदय एवं कार्यक्रम के अध्यक्ष प्रो० (डा०) एन०पी० सिंह, निदेशक प्रसार एवं अन्य सभी सदस्यों को पुष्प गुच्छ भेंट कर स्वागत किया गया। बैठक में सर्वप्रथम केन्द्र के अध्यक्ष डा० श्याम सिंह ने केन्द्र की दिनांक 28.10.2021 को सम्पन्न हुयी पंचम बैठक में सदस्यों द्वारा दिये गये सुझावों पर की गयी कार्यवाही से समिति के सदस्यों को अवगत कराया इसके उपरान्त केन्द्राध्यक्ष द्वारा नवम्बर, 2021 से अक्टूबर 2022 तक केन्द्र के सभी विषय वस्तु वि०षज्ञों द्वारा सम्पादित कराये गये कार्यों की प्रगति आख्या सदस्यों के समक्ष प्रस्तुत की साथ ही आगामी वर्ष (नवम्बर, 2022 से दिसम्बर 2023 तक) की कार्ययोजना भी माननीय सदस्यों के समक्ष प्रस्तुत की।

केन्द्राध्यक्ष 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 है।

प्रो० (डा०) एन०पी० सिंह, मा० कुलपति महोदय, बी०यू०ए०टी, बाँदा

- कृषि विज्ञान केन्द्र को जनपद के सभी विकास खण्डों की भूमि, जलवायु एवं फसल पद्धति का अध्ययन कर वहाँ के मंडीभाव, बाजार एवं उत्पादकता के आकड़े एकत्र कर उनके आधार पर कृषक उपयोगी तकनीकों का सम्पूर्ण पैकेज के साथ प्रदर्शन आयोजित कराये जायें।
- जनपद में जलवायु अनुकूल उत्तम तकनीकों को रिफाईन करने के उपरान्त कृषकों के प्रक्षेत्र पर परीक्षण हेतु लगायें
- ग्रामीण युवकों के लिये रोजगार परख प्रशिक्षणों का आयोजन किया जाये।
- सीड हब में बीज उत्पादन का लक्ष्य क्षेत्रीय मांग के आधार पर ही रखें।
- प्रत्येक प्रक्षेत्र का तकनीकी कार्यक्रम माननीय कुलपति महोदय से अनुमोदन कराया जाये।
- समूह अग्रिम पवित्र प्रदर्शन दलहन में बीज शोधन का प्रदर्शन अवश्य होना चाहिये।
- केन्द्र द्वारा आयोजित होने वाले ऑन फार्म ट्रायल को विषय विशेषज्ञों से विचार विमर्श कर आयोजित करें।
- जनपद हेतु संस्तुत तकनीकों पर ही कार्य करें।
- जनपद की प्रमुख फसलों की मुख्य समस्याओं पर ऑन फार्म ट्रायल हेतु दूसरे वर्ष उन्हीं कृषकों का चयन करें जिनके प्रक्षेत्र पर प्रथम वर्ष आयोजन हुआ है।
- मोटे आनाजों को बढ़ावा दें।

- प्रसार निदेशालय स्तर से त्रैमासिक समाचार पत्र का प्रकाशन हो।
- मवाई स्थित प्रक्षेत्र को कृषि विज्ञान केन्द्र कृषि योग्य बनाने एवं उपयोग में लेने के सार्थक प्रयास करें।
- प्राकृतिक खेती को बढ़ावा देने के लिए जागरूकता से सम्बन्धित प्रयास किया जाये।
- केवीके बाँदा को उत्कृष्ट केवीके बनाने के लिए भरपूर प्रयास किया जाये।
- सलाहकार समिति की बैठक की तिथि तक आयोजित एफएलडी एवं ओएफटी के परिणाम प्रस्तुत किया जाये।
- खरपतवार नियंत्रण पर आयोजित ऑन फार्म ट्रायल करने से पूर्व स्थानीय खरपतवार एवं इनके लिए उपयुक्त खरपतवारनाशी का अध्ययन अवश्य किया जाये।

प्रो० (डा०) एन०के० बाजपेयी, निदेशक प्रसार

- जनपद की मुख्य समस्याओं का आंकलन कर दो वर्ष हेतु ऑन फार्म ट्रायल लगायें तदोपरान्त सफलता मिलने पर तकनीकी को अग्रिम पवित्र प्रदर्शन में लें जायें।
- प्रस्तुतीकरण करते समय मुख्यतः सांख्यात्मक आंकड़े प्रस्तुत करें।
- कृषकों में मोटे अनाजों एवं कठिया गेहूँ के प्रति जागरूकता पैदा करें।
- प्राकृतिक खेती के बेहतर प्रचार प्रसार हेतु कार्य किया जाये।
- सीड हब परियोजना में बीजोत्पादन कार्यक्रम जिले के कृषकों के मांग के अनुरूप किया जाये।

डा० नरेन्द्र सिंह— सह निदेशक प्रसार

- कृषि प्रसार में फव्वारा सिंचाई पद्धति के कम अंगीकरण विषय पर ओ०एफ०टी० का आयोजन होना चाहिये।
- ओ०एफ०टी० में जो तकनीकी बुन्देलखण्ड क्षेत्र हेतु संस्तुत है उन्हीं का समावेश होना चाहिये।
- जल संरक्षण, फसल पद्धति, प्रजनन सम्बन्धी समस्यायें वर्ष भर हरा चारा उत्पादन आदि विषयों पर ऑन फार्म ट्रायल आयोजित है।

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 निदेशालय से तकनीकी सहयोग प्राप्त करें।
- बकरी पालन में सिल्वी पाश्चर विषय पर ओ०एफ०टी० आयोजित करायी जानी चाहिये।
- 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

- गेहूँ के प्रजाति परीक्षण में अधिक उत्पादन देने वाली प्रजातियां लगायें।
- प्रसार कर्मियों के प्रशिक्षणों के लक्ष्य की प्राप्ति हेतु कृषि महाविद्यालय के प्राध्यापकों का सहयोग लें।

डा० संजीव कुमार, अधिष्ठाता, वानिकी महाविद्यालय

- जल संरक्षण, औषधीय एवं सुगन्धित पौधों की खेती हेतु वानिकी महाविद्यालय के विशेषज्ञों का सहयोग लें।

डा० मयंक दुबे, सहायक प्राध्यापक

- पशुपालन सम्बन्धी विषयों पर रोजगार परक प्रशिक्षणों की संख्या बढ़ायी जाये।

डा० मनोज अवस्थी, उपनिदेशक पशुपालन

- नस्ल सुधार हेतु बुन्देलखण्ड की देशी नस्लों के इस्तेमाल करें
- कृषकों को बकरी पालन एवं मुर्गीपालन विषय पर अधिक से अधिक प्रशिक्षण आयोजित करें।

जिला उद्यान अधिकारी के सुझाव —

- औषधीय एवं सुगन्धित पौधों की खेती के प्रति कृषकों को प्रेरित किया जायें।
- कृषकों को उद्यान विभाग की योजनाओं के बारे में बताये तथा विभाग से जोड़ें।
- ग्रामीण युवकों का समूह बनाकर खरीफ प्याज के उत्पादन विषय पर प्रशिक्षण एवं प्रदर्शन आयोजित किये जायें।

श्री प्रतीक चौबे, इफको बाँदा

- नैनो डी0ए0पी0 एवं ईफकों बायोडीकम्पोजर के प्रदर्शन कृषक प्रक्षेत्र पर लगाये जायें।

श्रीमती सीमा खान, समाजसेविका

- वैज्ञानिक सलाहकार समिति के सदस्यों को केन्द्र द्वारा आयोजित विशेष कार्यक्रमों में प्रतिभाग करने हेतु आमंत्रित करना चाहिये।
- वैज्ञानिक सलाहकार समिति के सदस्यों का व्हाट्सअप ग्रुप बनाना चाहिये तथा प्रत्येक बैठक के उपरान्त सदस्यों की समूह फोटोग्राफ होने चाहिये।
- महिलाओं हेतु रोजगार परक प्रशिक्षणों की संख्या बढ़ायी जाये तथा ऑफ कैम्पस प्रशिक्षणों का आयोजन किया जाये।

श्री विज्ञान शुक्ला

- फसल उत्पादन, पशुपालन एवं उद्यानकी का एकीकृत फसल प्रणाली के मॉडल कृषक प्रक्षेत्र पर स्थापित करनी चाहिये।
- कठिया गेंहू के गुणवत्ता युक्त बीज उत्पादन का कार्य होना चाहिये।
- कृषि वानिकी से कम छाया वाले वृक्षों को मेड़ पर लगाने हेतु कृषकों को प्रेरित किया जाये।

श्री शान्ति भूषण सिंह

- प्राकृतिक खेती के प्रति जागरूकता फैलायी जाये।
- जनपद के दूर दराज के कृषकों पर के0वी0के0 की योजनाओं का लाभ पहुंचाया जाये।

श्री अशोक सिंह, प्रगतिशील कृषक

- सीमान्त एवं भूमिहीन कृषकों हेतु मुर्गीपालन एवं बकरी पालन विषयों पर प्रशिक्षण आयोजित करानी चाहिये।

(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 मा0 सदस्यगण।

(श्याम सिंह)
अध्यक्ष

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

2. DETAILS OF DISTRICT (31st December, 2022)

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)
Kharif (2021-22)				
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
Rabi (2021-22)				
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-22	39.25	26	3	58.95
Feb-22	86.75	30	12	60.83
Mar-22	23.75	35	25	36.53
Apr-22	0.0	40	24	46.00
May-22	0.0	42	26	52.40
Jun-22	0.0	44	28	69.15
Jul-22	266.25	43	25	81.60
Aug-22	200.95	38	24	88.60
Sep-22	157.75	38	24	79.60
Oct-22	87.75	36	17	55.25
Nov-22	0	26	10	58.4
Dec-22	0	22	8	56.2

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

Category	Population	Production	Productivity
Cattle			
Crossbred	720		
Indigenous	370789		
Buffalo			
	324091		
Sheep			
Crossbred	0		
Indigenous	12255		

Goats	125317		
Pigs			
<i>Crossbred</i>	0		
<i>Indigenous</i>	17566		
Rabbits			
Poultry			
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 (31st December, 2022)

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, Sesmum 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, Sesmum, 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, Sesmum, Paddy Gram, Lentill, Fieldpea Wheat	Unavailability of improved variety seed	Introduction of HYV, IPM, INM, IDM
Atarra	Bisanda	Bisanda Atarra Rural	Arhar, Sesmum, 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 –(Jan 2022-Dec. 2022)

Demonstrations

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
Intercropping System(Kharif-Rabi-Zaid) -Livestock etc.							
Success Stories have been submitted for publication							

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

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

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

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
Mono Cropping System(Kharif-Rabi-Zaid) -Livestock etc.							

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

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

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

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

Note- Same format may be used for OFT.

3. TECHNICAL ACHIEVEMENTS

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

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
12	9	140	120	42.75/90 Ani.	44.15/90 Ani.	215	221

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	84	55	2100	1643	150	157	30000	29547
Rural youth	08	03	200	74				
Extn. Functionaries	08	05	200	158				
	100	63	2500	1875				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200	206.45	-	25000	30000	371

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 (Timely sown)	4	4
	Wheat	Varietal evaluation of New HYV K-1317 (Late sown)	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	12	12
	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				
Post Harvest Technology / Value addition				
Drudgery Reduction				
Storage Technique				
Others (ICT-Mobile App)	Livestock	Impact assessment of <i>Pashu Poshan</i> Mobile app for better transfer of scientific feed management technology among Livestock owners	20	20
Total			70	70

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 Protein and Liquid feed supplement on health and production	30	15
	Goat	Assessment of feeding Vitamin Supplement on health and production	20	10
Others (Pl. specify)				
Total			50	25

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

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

Note: Suppose **IPM in paddy** is the technology assessed by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with $50 \times 5 = 250$ trials and No. of KVKs will be 50. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

I.B. TECHNOLOGY REFINEMENT

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

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

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)				
Total				

Summary of technologies refined under various enterprises by KVKs

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

Note: Suppose **IPM in paddy** is the technology refined by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with $50 \times 5 = 250$ trials and No. of KVKs will be 50. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

(From each state please include the full details of three OFTs on technology assessment and or refinement under the broad thematic areas such as Integrated Crop Management, weed management, pest and disease management, nutrient management, resource conservation, livestock enterprises, Integrated Nutrient Management)

OFT-1: 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 2021-22 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' fields of four villages during Rabi 2021-22. A New variety K-1317 is under testing against the farmer practice (WH 147). The results shows that the new variety K-1317 perform better in districts and gave 14.86 % higher yield than old variety WH-147 which is very popular among the farmers. The average yield of variety K-1317 was reported 33.82 q/ha with net return of Rs. 65265/ha and B:C ratio 3.173 as compared to old variety 29.45 q/ha with net return Rs. 55610/ha and B:C ratio 2.39. The

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	29.45	-	55610	2.93
New HYV K-1317		33.82	14.86	65265	3.17

OFT-2: 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 2022-23 season in district Banda. In most of the areas rice crop is transplanted in late July after inception of Monsoon. Rice crop faces weed infestation with broad and narrow leaves weeds mainly of *Echinochloa crusgali* E., *Colonum*, *Cyperus Difformis*, *Ciria*, *Alternanthera* 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 2022-23. 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 (42.1 q/ha) while the maximum yield by farmers practice was recorded 37.0 q/ha). This treatment has also maximum net return (Rs. 102789 /ha) with 3.27 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>	04	34.72	-	85364	2.98
Bispyriback sodium 15 SL (Nominigold) @200 ml/ha		39.97	15.12	102789	3.27

Sale Price- Rs. 3700/q

Variety- Pusa Basmati 1121

OFT-3: 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 of four villages during Rabi 2022-23. A New variety K-1317 is under testing against the farmer practice (WH 147). This is third year of testing the Variety. 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	-	-	-	-
New HYV K-1317		-	Results are awaited		-

OFT-4: PEST AND DISEASE MANAGEMENT

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

Technology assessed: Integrated 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 during *Kharif* 2022-23 to assess 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 18.2 to 4.2% and yield was increased by 36.8 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)	12	18.2	3.8	36.8%	8500	30,400	21900	1.57
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	6.2		9300	41600	32300	2.47

OFT-5: 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: Management of 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 *Kharif* 2022-23 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 20.4 to 8.2%. The yield enhancement was 21.3% with net return of Rs. 71580/ha in comparison to farmer's practice (Rs. 56240/ha).

Technology Option	No. of trials	No. of infected ear/m ² 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	20.4	38.2	21.3	29800	84040	56240	1.82
Foliar spray 0.1% Propiconazole at 5% ear initiation		8.2	46.4		30500	102030	71580	2.34

OFT-6: PEST AND DISEASE MANAGEMENT

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

Technology Assessed: IDM approach for wilt and dry root rot disease in Lentil.

Lentil is an important pulse crop of Bundelkhand region of Banda during *Rabi* season. However, there is high incidence of wilt and dry root rot disease resulting in yield loss. KVK, Banda conducted on-farm trial during *Rabi* 2021-22 to assess 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 vitavax power@2g/l water reduced the percentage of disease incidence from 16.4 to 3.3% and yield was increased by 28.5 per cent.

Technology Option	No. of trials	No. of infected ear/m ² 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	16.4	8.40	28.5	17000	49560	32560	1.91
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		3.30	10.80		18000	63720	45720	2.54

LIVE STOCK ENTERPRISES

OFT-7: Nutrition Management in Dairy Buffaloes

Problem definition: Low milk production in dairy buffaloes

Technology Assessed: Assessment of feeding By-Pass Protein and Liquid Feed Supplement on health and production

KVK, Banda conducted trial during 2022-23 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 Protein and Liquid Feed Supplement. Feeding of By-Pass fat in addition to farmers practice increased milk yield from 4.7 to 6.1 lit/day.

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	4.7
T2 – T1 + By-Pass fat		6.1

OFT-8: Nutrition Management in Goat

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

Technology Assessed: Assessment of feeding Vitamin Supplement on health and production.

KVK, Banda conducted trial during 2021-22 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. Feeding of Vitamin supplement in addition to farmers practice (grazing) increased the body weight of Goat 1150gm/month as compared to 700 gm/month of grazing.

Effect of feeding Vitamin Supplement on body weight gain

Technology Option	No. of trials	B.wt Gain (gm/month)
T1- Grazing	20	700
T2 – T1 + Vitamin Supplement		1150

AGRICULTURE EXTENSION

Problem definition: Poor adoption of new feeding technologies by the farmers.

Technology Assessed: Impact assessment of *Pashu Poshan* Mobile app for better transfer of scientific feed management technology among Livestock owners.

Feeding is a very important aspect of dairy production and cost around 70% of the total cost of milk production. Farmers are not very much aware about balance feeding and balanced rationing. Hence NDDDB has developed an android based *Pashu Poshan* app in 2015. With the help of this App. balanced ration is formulated while optimizing the cost considering animal profile, i.e. cattle / buffalo, age, milk production, milk fat, and feeding regime etc. The farmers can adjust the quantity of locally available feed ingredients offered to their animals along with mineral mixture. Therefore, KVK, Banda has initiated the trial on Impact assessment of *Pashu Poshan* Mobile app for better transfer of scientific feed management technology among Livestock owners in the year 2022-23. In this trial 10 livestock owners were advised to use this app and their level of adoption of balance rationing and feeding in dairy animals have been assessed and it was found that the level of adoption has increased by 19.26 per cent after exposure to *Pashu Posan* App and it was found significant at 0.05 level of significance in increasing adoption.

Extension methods	teaching	Level of Knowledge (%)			't' value
		Pre- exposure	Post-exposure	Difference	

Farmer practice (n=10)	54.72	59.04	4.32	1.93
Pashu Poshan App (n=10)	56.63	79.62	22.99	14.72**

(** significant at level of 0.05 per cent of significance.)

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2021-22 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	K-1317	Through Demonstration	20	85	125
2.	Paddy	Varietal	Chemical weed control (Nominigold)	Through Demonstration	12	45	60
3.	Buffalo	Feed Management	Mineral Mixture	Through Demonstration	2	18	-
4.	Sheep & Goat	Nutrient Management	Vitamin supplement	Through Demonstration	2	15	-
	Manjul Sir						
	Diksha and Pragyia						

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

b. Details of FLDs implemented during 2022 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Wheat	Varietal	HYV DBW - 107	Rabi 2021-22	10.0	10.0	3	22	25	
2.	Wheat	Varietal	HYV K-1317	Rabi 2022-23	8.0	8.4	3	18	21	
3.	Paddy	Varietal	HYV (Pant Dhan -24)	Kharif 2022	5.0	6.0	6	9	15	
4.	Chickpea	IPM	IPM	Rabi 2021-22	6.0	6.0			15	
5.	Chickpea	IPM	IPM	Rabi 2022-23	8.0	8.0			20	
6.	Paddy	IPM	IPM	Kharif 2022-23	4.0	4.0			10	
7.	Buffalo	Feed Management	By Pass Protein	2022-23	36 Ani.	36 Ani.	2	16	18	

8.	Goat	Nutrient Management	Vitamin supplement	2021-22	30 Ani.	30 Ani.	3	12	15	
9.	Goat	Nutrient Management	Vitamin supplement	2022-23	24 Ani.	24 Ani.	3	9	12	
10.	Vegetables	Nutritional Security	Kitchen gardening model	2021-22	1.75	1.75			70	

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 2021-22	Irrigated	Black soils	Low	Low	Medium	Paddy	Dec. 2 nd week	April, 2 nd week	12.75	2
Wheat	Rabi 2022-23	Irrigated	Black soils	Low	Low	Medium	Paddy	Nov. 2 nd week	-	-	-
Paddy	Kharif 2022	Irrigated	Black soils	Low	Low	Medium	Wheat	July Last week	Nov. Last week	814	40

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1. Wheat	Heat tolerant variety DBW 107 , liked by farmers as it is good for late sowing condition in Rice-wheat crop rotation
2. Rice	High yielding variety Pant Dhan -24, Good for high temperature and suited well in Rice-wheat crop rotation
3. By Pass Protein and Liquid Feed Supplement	It enhance the milk production by 10% in buffalo
4. 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, less affected heat waves and gave higher production.
2. Rice	Farmer liked this variety because of its profuse tillering and higher production.
3. By Pass Protein and Liquid Feed Supplement	Farmers were satisfied with the Mineral mixture technologies as it increase the milk production of buffalo
4. 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				
2	Farmers Training				

3	Media coverage				
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)				% 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										
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)			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										
Pigeonpea																		
(2021-22) CFLD	VE	HYV and Starter Dose	IPA-203	25	10	16.80	12.80	14.9	11.6	28.44	25300	93870	68570	3.71	22900	73080	50180	3.19
(2022-23) CFLD	VE	HYV and Starter Dose	IPA-203	50	20	Result	awaited											
Blackgram																		
Greengram																		
Chickpea																		
2021-22 CFLD	VE	HYV and Starter Dose	JG-12	25	10	14.85	11.34	12.9	10.6	21.69	25600	67467	41867	2.63	24900	55438	30538	2.22
2022-23 CFLD	VE	HYV and Starter Dose	JG-36	75	30	Result	awaited											
2021-22	IPM	IPM	JG-14	15	6	17.8	13.9	14.6	12.5	17.69	27400	77430	50030	1.82	25800	54375	28575	1.10
2022-23	IPM	IPM	JG-14	20	8	Result	awaited	-		-	-	-	-	-	-	-	-	-
Fieldpea																		
CFLD 2022-23	VE	HYV	IPFD 12-2	50	20	Result	awaited											
Lentil																		
2021-22 CFLD	VE	HYV	IPL-316	25	10	11.6	7.8	10.34	8.48	21.93	25100	56870	31770	2.26	23900	46640	22740	1.95
2022-23 CFLD	VE	HYV	IPL-316	50	20	Result	awaited											
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

Sheep & Goat																	
Goat 2021-22	Nutrient Management	Vitamin supplement	15	30	120	100	16.66			420	1380	960	3.28	390	1200	810	3.07
Goat 2022-23	Nutrient Management	Vitamin supplement	12	24	Result	awaited											
Vaccination																	

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

** BCR= GROSS RETURN/GROSS COST

FLD on Demonstration details on crop hybrids (*Details of Hybrid FLDs implemented during 2022*)

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

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

g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)										
III Soil Health and Fertility Management										
Soil fertility management	1	18	0	18	7	0	7	25	0	25
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)										
Total	1	18	0	18	7	0	7	25	0	25
IV Livestock Production and Management										
Dairy Management	2	64	0	64	14	0	14	78	0	78
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	2	54	0	54	14	0	14	68	0	68
Disease Management	3	74	2	76	25	0	25	99	2	101
Feed & fodder technology	1	24	3	27	3	0	3	30	0	30
Production of quality animal products										
Others (pl specify)										
Total	8	216	5	221	56	0	56	275	2	277
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery reduction technologies	1	0	17	17	0	14	14	0	31	31
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	1	0	17	17	0	14	14	0	31	31
VI Agril. Engineering										
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)										
Total										
VII Plant Protection										
Integrated Pest Management	6	106	53	159	15	15	30	121	68	189
Integrated Disease Management	1	12	-	12	12	02	14	24	02	26
Bio-control of pests and diseases	1	15	15	30	04	06	10	19	21	40
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	8	133	68	201	31	23	54	164	91	255

VIII Fisheries										
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)										
Total										
IX Production of Inputs at site										
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)										
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics	1	17	3	20	5	0	5	22	3	25
Formation and Management of SHGs	2	19	22	41	0	7	7	19	29	48
Mobilization of social capital										
Entrepreneurial development of farmers/youths	1	23	1	24	2	0	2	25	1	26
WTO and IPR issues	1	19	2	21	6	0	6	25	2	27
Others (Mobile App. and Weather Awareness)	1	15	5	20	7	4	11	22	9	31
Total	6	93	33	126	20	11	31	113	44	157
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	30	568	135	703	137	51	188	708	183	891

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
I Crop Production										
Weed Management	1	16	0	16	10	0	10	26	0	26
Resource Conservation Technologies	2	31	22	53	2	0	2	33	22	55
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	1	16	0	16	9	0	9	25	0	25
Soil & water conservatioin										
Integrated nutrient management	1	27	1	28	5	0	5	32	1	33

Production of organic inputs										
Others (pl specify) Crop Residue Management	1	29	0	29	1	0	1	30	0	30
Total	6	119	23	142	27	0	27	146	23	169
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
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)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)										
III Soil Health and Fertility Management										
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)										
Total										
IV Livestock Production and Management										
Dairy Management	1	22	3	25	5	1	6	27	4	31

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	1	0	17	17	0	14	14	0	31	31
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	1	0	25	25	0	6	6	0	31	31
Others (Health Care in Summer)	1	0	28	28	0	2	2	0	30	30
Total	6	0	100	100	0	70	70	0	170	170
VI Agril. Engineering										
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)										
Total										
VII Plant Protection										
Integrated Pest Management	8	160	53	213	21	15	36	181	68	249
Integrated Disease Management	5	125	4	129	27	18	45	152	22	174
Bio-control of pests and diseases	1	15	15	30	4	6	10	19	21	40
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	14	300	72	372	52	39	91	352	111	463
VIII Fisheries										
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)										
Total										
IX Production of Inputs at site										
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)										
Total										
X Capacity Building and Group Dynamics										
Leadership development	0	0	0	0	0	0	0	0	0	0
Group dynamics	1	17	3	20	5	0	5	22	3	25
Formation and Management of SHGs	3	40	26	66	0	7	7	40	33	73
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	3	50	23	73	5	1	6	55	24	79
WTO and IPR issues	1	19	2	21	6	0	6	25	2	27
Others (Mobile App. and Weather awareness)	2	38	5	43	14	4	18	52	9	61

Total	10	164	59	223	30	12	42	194	71	265
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	55	1028	277	1305	212	126	338	1240	403	1643

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	1	0	15	15	0	3	3	0	18	18
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	1	18	4	22	3	4	7	21	8	29
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl. specify)										
TOTAL	2	18	19	37	3	7	10	21	26	47

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	62	7342	45	7387
Diagnostic visits	22	125	44	169
Field Day	6	85	2	87
Group discussions				0
Kisan Ghosthi	2	254	6	260
Film Show				0
Self -help groups				0
Kisan Mela	2	13235	52	13287
Exhibition	3	4602	25	4627
Scientists' visit to farmers field	36	346	12	358
Plant/animal health camps	2	96	8	104
Farm Science Club				0
Ex-trainees Sammelan				0
Farmers' seminar/workshop	1	250	15	265
Method Demonstrations	1	26	4	30
Celebration of important days	7	935	35	970
Special day celebration	12	1850	50	1900
Exposure visits	1	100	3	103
Others (pl. specify)				0
Total	157	29246	301	29547

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	
Extension Literature	9
News paper coverage	80
Popular articles	
Radio Talks	
TV Talks	3
Animal health camps (Number of animals treated)	2
Others (pl. specify)	
Total	94

Name of KVK	Message Type	Type of Messages					Total
		Crop	Livestock	Weather	Marke-ting	Aware-ness	
	Text only	36		48		24	108
	Voice only	-	-	-	-	-	-
	Voice & Text both	-	-	-	-	-	-
	Total Messages	36		48		24	108
	Total farmers Benefitted	5526		512		5526	11564

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies			
	Lectures organised			
	Exhibition			
	Film show			
	Fair			
	Farm Visit			
	Diagnostic Practicals			
	Distribution of Literature (No.)			
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)			
	Bio Product distribution (Kg)			
	Bio Fertilizers (q)			
	Distribution of fingerlings			
	Distribution of Livestock specimen (No.)			
	Total number of farmers visited the technology week			

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

Production of seeds 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	K-1317		34.58	127946	
	Paddy	Pant Dhan 24		154	525000	
Oilseeds	Mustard	(RH-749)		7.80	42000	
Pulses	Lentil	IPL 316		14.25	139365	
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						

Others						
Total						

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						
	Brinjal	Kashi Uttam		9500		50
	Chilli	Kashi Anmol		6000		60
	Tomato	Kashi Aman		7500		91
	Cauliflower	Kashi Gobhi 25		6000		120
Fruits						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
	Napier	Sapling		1000		50
Forest Species						
Others						
Total				30000		371

Production of Bio-Products

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

Table: Production of livestock materials

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

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	250	200	1	
Water				
Plant				
Manure				
Others (pl.specify)				
Total				

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted	Date of SAC
Banda	01	11-11-2022

IX. NEWSLETTER/MAGAZINE

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

X. PUBLICATIONS

Category	Number
Books	
Technical bulletins	04
Research Paper	02
Lead Papers	
Book Chapters	
Popular Articles	01
Newsletters	
Technical reports	
Others (Extension Folder)	05

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.)

XIII. DETAILS ON HRD ACTIVITIES

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

Name of the	Title of the training			
Total				

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

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

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

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

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

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

Name of the KVK

TITLE

Introduction

KVK intervention

Output

Outcome

Impact

KVK Case study-01

Need Based Scientific approach in Agriculture

Situation analysis:- Mr Ramchandra, S/o Shri Jagat Narayan resident of village Khaptiha Kalan, Block: Tindwari, district: Banda, was given training on different aspects of Integrated farming system. He was earlier involved with traditional; agriculture. He used to grow Black Gram/wheat/Pigeon Pea in his 4 acre. Land. He was getting net profit of Rs.1.90 lakh per year with BCR of 2.26 during 2017-18.

Plan, Implement and Support:- KVK Banda guided the farmer by giving training, demonstration of technologies of different enterprises like Crop production, Horticulture, Dairy and vermicomposting etc. KVK helped and promoted the farmer for availing the benefit of different schemes run by line departments.

Output:- Mr. Ramchandra, adopted the different modern technologies in all enterprises as per suggestion of KVK's scientist for his 4.0 acre land and dairy unit. He adopted different innovations like organic farming, Ridge furrow method, Preparing and use of Vermi compost, Balance feeding, Use of Waste decomposer, Enrichment of FYM, Use of Vermiwash, Green fodder production round the year and Wheat seed production in his farm and now he is getting more economical gain in terms of Net return Rs 3.80 lakh with BCR of 2.86.

Outcome:- Use of High yielding varieties, Follow integrated approach, Soil and water conservation practices, Training and pruning of fruit trees and Balance ration and timely vaccination of milch animal resulted in higher profitability and sustainability in farming.

Impact:- About 35-50 farmers are continuously interacting with Mr Ramchandra and getting advice on different aspects of wheat, Fruit cultivation, and dairying practices. Many farmers are frequently visiting his farm and adopting the packages of practices followed by Mr. Ramchandra at his field. He is one of the progressive farmers of Banda District. He is also serving the farmers community through delivering lectures in Chaupal and Extension Programmes of different departments.

	
Dairy unit at his farm	Seed Production of Wheat

KVK Case study-02

RH-749: Promising variety of Mustard for Bundelkhand region

Situation analysis:- Bundelkhand region well known for oilseed production. Among oilseed crop Mustard crop is occupied maximum area in Rabi seasons. However, the productivity of district Banda is very poor

(10.0 q/ha). The productivity of mustard crop can be increased by adopting HYV and improved technologies.

Plan, Implement and Support:- Considering above issues KVK, Banda conducted CFLD programme in Banda district since 2017-18 to demonstrate different technologies on farmers field. During 2021-22 Mr. Ravindra Singh resident of Village Mahokhar, Block- Badokhar Khurd, Distt- Banda was selected for CFLD mustard demonstration. HYV RH-406, Line sowing and application of Neem oil was demonstrated on his field.

Output:- Mr. Ravindra Singh adopted all demonstrated technologies effectively as suggested by KVK scientist. He produced 18.3q/ha of Mustard in the year 2021-22 which was 50.61 percent higher over the check yield of other farmers in the village. He got good price of his produce because of its quality (Rs. 5050/q) and got net income of Rs. 69915/ha with BCR of 4.10.

Outcome:- Farmers of nearby villagers were agreed with demonstrated technology specially variety and cheap and effective method of aphid control. Mr. Ravindra Singh is very happy with quality and production of Mustard. He is also satisfied with improvement in his income, livelihood and also set forth example for other farmers of the village.

Impact:- Many farmers of nearby villages are continuously interacting with Mr. Ravindra Singh and getting advice on Mustard production. He is now becoming one of the progressive farmers of Banda District.

	
<p align="center">Group of farmers conducting CFLD</p>	<p align="center">Field visit by KVK Scientist</p>

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 \checkmark 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

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

E. Publication on Technology inventory

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

F. Technological Products provided to KVKs

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

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	
	Total	

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		
	Total		

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	0.2				
4	Vegetable Production	1	0.1				

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
5	5	1	2	1	3	2	50	3	250

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			
Total				

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

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

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
4	12.1	248	74.05	5		5	18	562	6	923

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						
Total (Kharif)							
Rabi	Chick pea	JG-36	Farmer participatory		14.84	FS-II	
	Field pea	IPFD 12-2	Farmer participatory		115.25	FS-II	
		IPFD 12-2	Farmer participatory		143.84	CS	
	Lentil	IPL-316	Farmer participatory		47.68	FS-II	
Total (Rabi)					321.61		
Summer	Black gram						
Total (Summer)							
Grand Total							

15) NEMA (New Extension Methodologies and Approaches)

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

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

S.No.	Name of Programme	Number/quantity
1	Plantation by paddy uppulling	
2	DSR	
3	Laser leveler	

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

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

18) Achievements under Swachhata Abhiyan Mission

S.No.	Items	No. of Programmes	No. of persons participated
1	Toilet maintenance	1	6
2	Road, drain cleaning	2	12
3	Garbage disposal	4	32
4	Door to door awareness	1	6
5	Awareness campaign	3	90
6	Nookkad Drama		
7	School Drama		
8	School rally	1	120
9	Writing paining slogans		
10	Composting	1	6
11	Other		
12			
13			

19) Achievements under Aspirational District Scheme

Name of programme	Number
Training	
Session No.	
No. of farmers	
Officers/staff involved	

Seed & Plant Distribution	
	Programme number
	Seed distribution in q
	No. of plant distributed
	Biological products distributed
	No. of programme organised
	No. of farmers
	Officers/staff involved
Animal husbandra & fish distribution programme	
	Vaccination
	Medicine for control of parasite
	Distribution of mineral mixure
	No. of farmers
	Officers/staff involved

XVI. Achivements under Natural Farming

Name of KVK	Number of awareness / training programmes organized	No. of Participants	Number of demonstrations organized at farms of KVKs	Number of farmers visited demonstration plots
Banda	6	1065	16	1265

XVII Awards

S.No.	Name of Award received	Name of KVK/farmer	Year of Award	Date on which award received
1	Utkrisht Krishak Samman for outstanding work in Natural Farming by UPCAR	Sri Rahul Awasthi	2022	14-06-2022

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

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