PROFORMA FOR PREPARATION OF ANNUAL REPORT (January-2019-December-2019)

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	60	1283	343	1626
Rural youths	4	41	86	127
Extension functionaries	9	147	91	238
Total	**73**	**1471**	**520**	**1991**
Sponsored Training	4	194	0	194
Vocational Training	2	40	0	40

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	30	20	-
Pulses	0	0	-
Cereals	45	21	-
Vegetables	91	17.8	-
Other crops	-	-	-
Hybrid crops	0	0	-
Total	**166**	**58.8**	-
Livestock & Fisheries	8	0	24
Other enterprises	47	0	47
Total	**55**	**0**	71
Grand Total	**221**	**58.8**	**142**

3. Technology Assessment

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
Crops	11	121	121
Livestock	2	36	12
Various enterprises	0	0	0
Total	**13**	**157**	**133**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	259	7388
Other extension activities	153	Mass
Total	**412**	**7388**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Awar e-ness	Other enterpri se	Total
	Text only	8	2	-	-	10	-	20
	Voice only							

	Voice & Text both							
	Total Messages	8	2	-	-	10	-	20
	Total farmers Benefitted	**7000**	**500**	**-**	**-**	**6000**	**-**	**13500**

6. Seed & Planting Material Production

	Quintal/Number	Value Rs.	Distributed to No. of farmers
Seed (q)	**72.28**	289120	
Planting material (No.)	**23700**	11500	**649**
Bio-Products (kg)			
Livestock Production (No.)	1608 litr	72360	
Fishery production (No.)			

7. Soil, water & plant Analysis

Type of Samples	No. of samples analysised	No. of Beneficiaries	Value Rs.
Soil	140	225	
Water			
Plant			
Total	**140**	**225**	

8. Publications

Books	0
Training Manual	
Book Chapter	
Research papers	2
Seminar Papers	
Technical bulletins	1
Technical reports	3
Others (pl. specify)	13
Total	19

DETAIL REPORT OF APR (Jan.2019 to Dec. 2019)

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	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 31th December, 2019)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Perman-ent /Temp-orary	Category (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Programme Coordinator	Dr. Shyam Singh	Sr. Scientist & Head	Agronomy	37400-67000	135300	13.12.2017	Permanent	SC	9450791440	49	Kvkbanda@gmail.com
2	Subject Matter Specialist	Dr S.C. Singh	Scientist	Horticulture	15600-39100	87200	09.02.2018	Permanent	OBC	9411159717	42	Kvkbanda@gmail.com
4	Subject Matter Specialist	Dr. Pragya Ojha	Scientist	Home Science	15600-39100	57800	12.12.2017	Permanent	Other	9458891879	30	Kvkbanda@gmail.com
5	Subject Matter Specialist	Dr. Manjul Pandey	Scientist	Plant Protection	15600-39100	57800	12.12.2017	Permanent	Other	6394584646	42	Kvkbanda@gmail.com
6	Subject Matter Specialist	Dr. Manvendra Singh	Scientist	Animal Science	15600-39100	57800	15.12.2017	Permanent	Other	8168313754	35	Kvkbanda@gmail.com
7	Subject Matter Specialist	Dr. Diksha Patel	Scientist	Agriculture Extension	15600-39100	56100	16.04.2018	Permanent	Other	7404797378	28	Kvkbanda@gmail.com
8	Computer Programmer	Shri Avinash Nigam	Computer Programmer	-	9300-34500	36500	11.12.2017	Permanent	Other	8400120570	34	Kvkbanda@gmail.com
9	Farm	Shri	Farm	-	930	3650	11.12.2	Perma	OBC	700732	2	Kvkban

	Manager	Ghan Shyam Yadav	Manager /Lab Asstt.		0-345 00	0	017	nent		3455	7	da @gmail. com
10	Program me Assistant	Shri Ajay Kumar Tiwari	Farm Manager /Lab Asstt.	-	930 0-345 00	3540 0	24.02.2 018	Perma nent	Other	893386 2656	28	Kvkban da @gmail. com
11	Accounta nt / Superinte ndent	Shri Abhish ek Shahi	Account ant	-	930 0-345 00	3650 0	11.12.2 017	Perma nent	Other	789783 0330	29	Kvkban da @gmail. com
12	Stenograp her	Shri Sarad Chandr a	Stenogra pher	-	520 0-202 00	2630 0	11.12.2 017	Perma nent	OBC	964871 1425	36	Kvkban da @gmail. com
13	Driver	Shri Chandr a Skekha r	Driver	-	520 0-202 00	2240 0	11.12.2 017	Perma nent	Other	955640 7161	44	Kvkban da @gmail. com
14	Driver	Shri Vikas Gupta	Driver	-	520 0-202 00	2240 0	11.12.2 017	Perma nent	Other	737953 9458	28	Kvkban da @gmail. com
15	Supportin g staff	Shri Raghuv eer	Peon	-	180 00-56	2490 0	01.06.2 010	Perma nent	SC	945222 6449	50	
16	Supportin g staff	Shri Preeta m	Peon	-	520 0-202 00	2420 0	01.09.2 010	Perma nent	SC		46	

1.6. Total land with KVK (in ha) : 8.89

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		Good
Tractor Massy	2010	4,74,140		Good
Motorcycle	-	-	-	-

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

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

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	15.02.2019	1. Dr. Atar Singh (Director, ICAR-ATARI, Kanpur) 2. Dr. N. K. Bajpai (Director Extension, BUAT, Banda) 3. Dr. G.S. Pawar (Dean, College of Agri.) 4. Dr. S.V. Dwevdi (Dean, Horticulture) 5. Dr. Narendra Singh (Asso. DE) 6. Shri. A.K. Singh (DDA) 7. Shri Pramod Kumar (DAO) 8. Dr. I.N. Singh (CVO) 9. Shri Subhash Chand Rajpoot (DPO, BAIF) 10. Smt. Seema Khan (Social Worker) 11. Dr. Parvej Khan (DHO) 12. Shree Shivendra Singh Bhaghel (Senior Horticulture Supervisor) 13. Shree Sachin Tiwari (IFFCO) 14. Shri Kapil Gangwar (IFFCO) 15. Shri. Shantibhusan Singh (Prog. Farmer) 16. Sri Rahul Awasthi (Prog. Farmer) 17. Shri Vigyan Sukhla (Prog. Farmer) 18. Shri Pradeep Mishra ((Prog. Farmer) 19. Shri Ashok Singh (Prog. Farmer) 20. Shri Surendra Pal Singh (Prog. Farmer) 21. Dr. Shyam Singh (Head, KVK) 22. Dr. Subhash Chandra Singh (SMS, Horticulture) 23. Dr. Nikhil Kumar Singh (SMS, Agronomy) 24. Dr. Manjul Pandey (SMS, Plant Protection) 25. Dr. Manvendra Singh (SMS, Animal Science) 26. Dr. Sarita Devi (SMS, Home Science) 27. Dr. Diksha Patel (SMS, Agriculture Extension) 28. Ghanshyam Yadav (Fram Manager)	1. Crop cafeteria should be technology demsotration unit rather than only varaital demostration unit 2. use of waste decomposer should be promoted among farmers 3. KVK and line departments should work in collaboration for effective transfer of technologies to farmers 4. Programmes should be on breed improvement and round the year availability of green fodder 5. Zero tillage and micro-irrigation technologies should be promoted 6. There is need to promote horticulture crops including spices, biofortified crops among farmers 7. There is need to promote enterpreurship among rural youth and women 8. Use of sexed semen technology should be promoted among farmers. 9. Organic farming and farmers should be promoted by developing nodal organic villages in the District.	All the suggestions have been included in Action Plan (2020-21) of KVK, Banda

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

कृषि विज्ञान केन्द्र, बाँदा
प्रसार निदेशालय
बाँदा कृषि एवं प्रौद्योगिक विश्वविद्यालय, बाँदा–210001, उ0प्र0
Telephone No:- 05192- 232315; website:- banda.kvk4.in, e-mail:- kvkbanda@gmail.com

पत्रांकः /के0वी0के0/2019 दिनांक /10/2019

वैज्ञानिक सलाहकार समिति दिनांक 15.10.2019 को आयोजित बैठक का कार्यवृत्त

निदेशक प्रसार महोदय की अध्यक्षता एवं निदेशक अटारी की उपस्थिति में आज दिनांक 15.10.2019 को कृषि विज्ञान केन्द्र, बाँदा की वैज्ञानिक सलाहकार समिति की बैठक केन्द्र के प्रशिक्षण कक्ष में सम्पन्न हुयी। इस बैठक में निम्न लिखित सदस्यों (जनपद के अधिकारी, वैज्ञानिक एवं प्रगतिशील कृषक) ने प्रतिभाग किया–

1.	डा0 अतर सिंह निदेशक, अटारी, कानपुर	15.	श्री विज्ञान शुक्ला, प्रगतिशील कृषक
2.	डा0 एन0 के0 बाजपेयी, निदेशक प्रसार	16.	अशोक सिंह, प्रगतिशील कृषक
3.	डा0 जी0एस0 पवार, अधिष्ठाता कृषि महाविद्यालय	17.	श्री प्रदीप मिश्रा, प्रगतिशील कृषक
4.	डा0 एस0 वी0 द्विवेदी, अधिष्ठाता उद्यान महाविद्यालय	18.	श्री शान्ती भूषण, प्रगतिशील कृषक
5.	डा0 नरेन्द्र सिंह, सह निदेशक प्रसार	19.	श्री सुरेन्द्र पाल सिंह, प्रगतिशील कृषक
6.	डा0 ए0के0 सिंह, उप कृषि निदेशक, बाँदा	20.	डा0 श्याम सिंह, अध्यक्ष कृषि विज्ञान केन्द्र
7.	डा0 प्रमोद कुमार, जिला कृषि अधिकारी	21.	डा0 सुभाष चन्द्र सिंह, वैज्ञानिक, उद्यान
8.	डा0 अई0एन0 सिंह, मु0पशु चिकित्सा अधिकारी, बाँदा	22.	डा0 निखिल कुमार सिंह, वैज्ञानिक, सस्य विज्ञान
9.	श्री सुभाष चन्द्र राजपूत, डी0पी0ओ0, बायफ, बाँदा	23.	डा0 मानवेन्द्र सिहं, वैज्ञानिक, पशु विज्ञान
10.	श्रीमती सीमा खॉन, समाज कल्याण सेवा समिति, बाँदा	24.	डा0 मंजुल पाण्डेय, वैज्ञानिक फसल सुरक्षा
11.	श्री परवेज खान, जिला उद्यान अधिकारी	25.	डा0 दीक्षा पटेल, वैज्ञानिक, कृषि प्रसार
12.	श्री शिवेन्द्र सिंह बघेल, वरिष्ठ उद्यान निरीक्षक	26.	डा0 सरिता देवी, वैज्ञानिक, गृह विज्ञान
13.	श्री सचिन तिवारी, इफको	27	श्री घनश्याम यादव, प्रक्षेत्र प्रबन्धक
14.	श्री कपिल गंगवार, इफको		

बैठक में केन्द्र द्वारा समिति की पिछली बैठक दिनांक 15.02.2019 से सितम्बर, 2019 तक सम्पादित कराये गये क्रिया कलापों की समीक्षा हुयी एवं आगामी अर्धवार्षिक वित्तीय वर्ष अक्टूबर 2019 से मार्च, 2020 तक की कार्ययोजना पर विचार–विमर्श एवं सुझाव लिये गये। बैठक की शुरूआत करते हुये केन्द्र के अध्यक्ष डा0 श्याम सिंह ने डा0 अतर सिंह, निदेशक प्रसार एवं अन्य सभी माननीय सदस्यों का पौधे भेंट कर स्वागत किया तद्पश्चात केन्द्र की संकलित प्रगति आख्या एवं आगामी अर्धवर्ष की कार्ययोजना को पावर प्वांइट प्रजेन्टेशन के माध्यम से प्रस्तुत किया। प्रस्तुति के दौरान समिति के सदस्यों से सुझाव भी आमंत्रित किये गये। इसके पश्चात केन्द्र पर कार्यरत विभिन्न विषयों के विषय वस्तु विशेषज्ञों ने अपने–अपने विषय की प्रगति एवं कार्ययोजना प्रस्तुत की।

केन्द्र के 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 है।

निदेशक अटारी, कानपुर के सुझाव–

1. क्राप कैफेटेरिया पर प्रजाति प्रदर्शन के अलावा तकनीकी प्रदर्शन भी लगाये।
2. वैज्ञानिक सलाहकार समिति में 02 (लघु एवं वृहद कृषक समूह) महिला सदस्य शामिल करें–
3. क्षेत्र विशेष की माँग के अनुसार तकनीकी का प्रसार करें।
4. तकनीकी का प्रदर्शन इन्सट्रैक्शनल फार्म पर भी लगायें।
5. पशु विज्ञान सम्बन्धी एफ0एल0डी0 एवं ओ0एफ0टी0 के आंकड़े अलग प्रस्तुत करें।
6. कृषि अवशेषों के प्रभावी प्रबन्धन हेतु वेस्ट डीकम्पोजर का प्रचार करें।
7. तकनीकी हस्तान्तरण कों प्रभावी बनाने के लिये कृषि विज्ञान केन्द्र एवं कृषि विभाग मिलकर कार्य करें।
8. बौछारी सिंचाई एवं टपक सिंचाई की विधि की जानकारी कृषकों तक पहुँचाई जाये।

निदेशक प्रसार महोदय के सुझाव–

1. कृषि में वैज्ञानिकता को महत्व दें।
2. ओ0एफ0टी0 एवं एफ0एल0डी0 में तकनीकी सम्बन्धी मानकों का विश्लेषण अवस्य करें।
3. महिलाओं के लिये कटाई उपरान्त प्रबंधन, मूल्यवर्धन सम्बन्धी रोजगार परक प्रशिक्षण आयोजित करें।
4. जनपद में फल एवं बागवानी के अन्तर्गत क्षेत्रफल बढ़ाने के लिये प्रयास करें।

5. केन्द्र द्वारा सम्पादित कार्यो का प्रस्तुतीकरण और अच्छे तरीके से करें।
6. प्रशिक्षण के शीर्षक का उद्देश्य विस्तृत एवं सारगर्भित होना चाहिये।

सह निदेशक प्रसार महोदय के सुझाव–

1. बैठक के प्रारम्भ में वैज्ञानिक सलाहकार समिति कें उद्देश्य एवं कार्य समझाये जाये।
2. प्रस्तुतीकरण आंकड़ो सहित करें।
3. मूल्यवर्धन के क्षेत्र में कार्य किया जाना चाहिये।
4. रिपोर्ट/पावर प्वाईंट में कार्यक्रमों के छायाचित्र विवरण सहित प्रस्तुत करें।
5. सरकार की योजनाओं के अनुसार नयी शब्दावली का समावेश करें।
6. जैवकि खेती पर विशेष महत्व दिया जाना चाहिये।

डा0 एस0 वी0 द्विवेदी प्राध्यापक उद्यान विज्ञान–

1. बैठक का क्रमांक अंकित करें साथ ही उन्होंने अवगत कराया कि केन्द्र के बीयूएटी में हस्तान्तरण के उपरान्त दिनांक 29.07.2017 को प्रथम बैठक आयोजित की गयी इस प्रकार यह केन्द्र की तृतीय बैठक होगी।
2. वैज्ञानिक सलाहकार समिति की रिपोर्ट में सदस्यों की सूची लगायी जाये।
3. पुरानी बैठकों में प्राप्त सुझावों पर की गयी कार्यवाही को आकड़ो सहित प्रस्तुत करें।

उप कृषि निदेशक महोदय–

1. जनपद में विभाग के कार्यों में अधिक सहभागिता करें।
2. केन्द्र द्वारा आयोजित प्रदर्शनों पर कृषकों का भ्रमण आयोजित करें।
3. नये–नये कृषि यंत्रों का प्रदर्शन किया जाये।

जिला कृषि अधिकारी–

1. मसाला वर्गीय फसलों का एवं बायो फोर्टीफाइड प्रजातियों का प्रचलन बढाने के लिये कार्य किया जाये।

मुख्य पशु चिकित्सा अधिकारी–

1. पशुओं की नस्ल सुधारने हेतु थारपारकर एवं कान्क्रेज नस्लों द्वारा कृतिम गर्भाधान को बढ़ावा दिया जाय।
2. कृषकों में पशुओं के टीकाकरण हेतु जागरूकता फैलाई जाये।

जिला कार्यक्रम समन्वयक, बायफ–

1. सेक्ड सार्टेड सीमेने का प्रचार प्रत्येक कार्यक्रम में करें।

श्रीमती सीमा खॉन–

1. महिलाओं एवं बच्चों में कुपोषण की समस्या पर जागरूकता हेतु कार्यक्रम कराये जाये।
2. महिलाओं को भी स्वालम्बन सम्बन्धी प्रशिक्षण केन्द्र पर आयोजित किये जायें।

जिला उद्यान अधिकारी–

1. उद्यान विभाग से समन्वय स्थापित कर योजनाओं में सहभागिता बढ़ाई जाये।
2. फलों एवं सब्जियों की खेती कर फसल सघनता बढ़ाने हेतु कृषकों में जागरूकता फैलाई जाये।

श्री अशोक सिंह प्रगतिशील कृषक–

1. बीजोत्पादन को बढ़ावा दिया जाये।
2. मेड़ बन्दी व जल संरक्षण अभियान चलाया जाये।

श्री शान्ती भूषण प्रगतिशील कृषक –

1. रेनगन का प्रचार–प्रसार अधिक से अधिक होना चाहिये।
2. युवाओं के लिये कार्य कर उन्हें कृषि से जोड़े एवं तकनीकी ज्ञान के साथ–साथ सामाजिक जागरूकता की भी आवश्यकता है।

श्री विज्ञान शुक्ला प्रगतिशील कृषक –

1. युवाओं को खेती के विभिन्न आयामों पर प्रशिक्षित किया जाये।
2. जैविक खेती को बढ़ावा देने के उद्देश्य से नोड़ल गाँव विकसित करने के उद्देश्य से जैविक गाँव चयनित कर अभियान के रूप में जैविक खेती का प्रचार–प्रसार किया जाये।

(श्याम सिंह)
अध्यक्ष

प्रतिलिपिः निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

1. समन्वयक तकनीकी सेल, कुलपति कार्यालय
2. निदेशक प्रसार, बाँदा कृषि एवं प्रौद्योगिक विश्वविद्यालय, बाँदा।
3. सलाहकार समिति के मा0 सदस्य।

(श्याम सिंह)
अध्यक्ष

2. DETAILS OF DISTRICT

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-VI	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 (MT.)	Productivity (Qt./ha)
1	Wheat	158943	363699	22.88
2	Barley	846	2404	28.42
3	Gram	96314	87395	9.07
4	Pea	1543	1478	9.58
5	Lentil	30975	21001	6.78
6	Mustard	2886	1940	6.72
7	Linseed	2855	2295	8.04
8	Toria	1240	1170	9.69
9	Paddy	51760	102019	16.28
10	Sorghum	23715	38262	11.46
11	Bajara	3251	6092	12.27
12	Maize	9	20	17.50
13	Greengram	2777	1083	6.68
14	Blackgram	3374	2001	4.26
15	Pigeon pea	17753	26774	15.08
16	Soyabean	22	17	5.74
17	Til	11085	4556	1.51
18	Groundnut	403	656	7.24

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April-18	0	41.12	25.70	
May-18	22.7	41.61	28.39	
June-18	39.4	39.58	30.93	
July-18	373.54	33.28	28.87	
Aug-18	353.99	30.58	27.87	
Sept-18	107.8	30.50	26.25	
Oct-18	0	32.66	22.46	
Nov-18	0	26.78	16.33	
Dec-18	0	20.23	9.56	
Jan-19	2.65	19.55	9.25	
Feb-19	10.1	21.9	13.8	
March-19	0	25.9	15.8	

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			
Crossbred	0		
Indigenous	17566		
Rabbits			
Poultry			
Hens			
Desi			
Improved			
Ducks			
Turkey and others			

Category	Area	Production	Productivity
Fish			
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

2.7 Details of Operational area / Villages (2019)

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Banda Sadar	Badokhar Khurd	Bargahni 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	Bacheura	Arhar, Sesmum , Guava Gram, Lentill, Wheat	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
Sorghum	Moisture conservation, IPM, IDM
Pulse crops	Integrated Pest Management, IDM
Oilseed	Weed management, IPM, INM
Wheat	HYV, INM
Fruit & Vegetable crops	Varietal Assessment, ICM , Disease & Pest Management,

2.9 Intervention/ Programmes for the doubling the farmers income – during Januar- December, 2019 **Demonstrations**

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

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

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

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

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
Mono Cropping System(Kharif-Rabi-Zaid) -Livestock etc.							
Kharif (Urd var. Local)	**4.8**	**-**	**-**	**12800**	**11200**	**1.87**	
Rabi (Pea var. Local)	**9.35**	**-**	**-**	**11403**	**11037**	**1.96**	

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- mediun). They were suggested to use 100Kg DAP/ha).
Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation (Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Mono Cropping System(Kharif-Rabi-Zaid) -Livestock etc.							
Kharif (Urd var. IPU-02-43)	**6**	**-**	**-**	**14000.0**	**16000.0**	**2.14**	
Rabi (Pea var. Aman)	**16.55**	**-**	**-**	**14660.0**	**25060.0**	**2.7**	

Discussion: After creating awareness through trainings about latest varieties and recommended dose of fertilizers, net income has been increased by using new varieties and 100Kg DAP/ha.

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.							
Rice-Wheat-Summer Moong	**1.8**	**-**	**-**	**12800**	**3800**	**0.64**	
	9.35	**-**	**-**	**11403**	**11037**	**1.96**	

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- mediun). They were suggested to use 100Kg DAP/ha).

After Interventions	Main crop Yield(q/ha)	Inter crop Yield(q/ha)	Equivalent yield(q/ha)	Cost of cultivation (Rs/ha)*	Net income(Rs/ha)	B.C: Ratio	Remark if any
Mono Cropping System(Kharif-Rabi-Zaid) -Livestock etc.							
Kharif (Urd var. IPU-02-43)	2.4	-	-	14000.0	2000.0	0.85	
Rabi (Pea var. Aman)	16.55	-	-	14660.0	25060.0	2.7	

Discussion: After creating awareness through trainings about latest varieties and recommended dose of fertilizers, net income has been increased by using new varieties and 100Kg DAP/ha.

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

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

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

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

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

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

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

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

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

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

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

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

Note- Same format may be used for OFT.

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2019

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	13	150	150	55	54.875	206	206

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	75	60	2050	1626	244	412	4744	7388
Rural youth	10	4	250	127				
Extn. Functionaries	10	9	250	238				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
90	72.28	-	30000	23700	649
	Lentil 17.61				
	Gram 45.18				
	Paddy 9.49				

Soil/plant/water Analysis		
5		
Target	Achievement	No. of farmers covered
140	140	225

I. 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				
Integrated Pest Management	Paddy	Assessment of IPM approach for Stem borer and leaf folder in paddy	10	10
	Chickpea	Assessment of IPM approach for pod borer management in chickpea	15	15
	Chickpea	Assessment of IPM practice for pod borer in Gram	10	10
Integrated Crop Management	Tomato	To assess the effect of staking with recommended spacing on yield and quality of tomato production	5	5
	Tomato	To assess the effect of staking with recommended spacing on yield and quality of tomato production	5	5
Integrated Disease Management				
Small Scale Income Generation Enterprises				
Weed Management	Paddy	Assessment of chemical weedicide in Paddy crop	5	5
	Wheat	Assessment of chemical weedicide in wheat	25	25
Resource Conservation Technology	Tomato	To Assess the effect of mulching (Crop Residue) on production and quality of fruits	5	5
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Post Harvest Technology / Value addition				
Drudgery Reduction		Reduction of drudgery among farmers through vegetable transplanter	10	10
Storage Technique				
Others (Pl. specify) Agricultural Extension		Impact assessment of different extension teaching methods for adoption of scientific package of practices of Rabi pulse	15	15
		Effectiveness of different extension methods for reproductive management of dairy animals	16	16
Total			**121**	**121**

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 calcium along with dewormer on health and	18	6

		production		
Production and Management	Buffalo	Calcium supplement and dewormer bolus	18	06
Others (Pl. specify)				
Total			36	12

Summary of technologies assessed under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers
Integrated Pest Management	Paddy	Assessment of IPM approach for Stem borer and leaf folder in paddy	10	10
	Chickpea	Assessment of IPM approach for pod borer management in chickpea	15	15
	Chickpea	Assessment of IPM practice for pod borer in Gram	5	5
Integrated Crop Management	Tomato	To assess the effect of staking with recommended spacing on yield and quality of tomato production	5	5
	Tomato	To assess the effect of staking with recommended spacing on yield and quality of tomato production	5	5
Weed Management	Paddy	Assessment of chemical weedicide in Paddy crop	5	5
	Wheat	Assessment of chemical weedicide in wheat	25	25
Resource Conservation Technology	Tomato	To Assess the effect of mulching (Crop Residue) on production and quality of fruits	5	5
Drudgery Reduction		Reduction of drudgery among farmers through vegetable transplanter	10	10
Others (Agricultural Extension)		Impact assessment of different extension teaching methods for adoption of scientific package of practices of Rabi pulse	15	15
		Effectiveness of different extension methods for reproductive management of dairy animals	16	16
Nutrition Management	Buffalo	Assessment of feeding calcium along with dewormer on health and production	16	8
	Buffalo	Calcium supplement and dewormer bolus	18	06

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*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 IN DETAIL

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

(The model for preparing the same is furnished below)

WEED MANAGEMENT

Problem definition: *Heavy infestation of weed in Paddy crop*

Technology assessed or refined (as the case may be): **Assessment of Herbicide in Paddy crop**

An herbicide evaluation on transplanted rice was carried out by KVK, Banda at five farmers field's of two villages namely; Pachnehi and Bargahani. A popular herbicide namely, Bispyribac Sodium (Nominee Gold) were tested against the farmer practice (hand weeding). The chemical weedicide increases 8.71% yield in NDR-359 variety of rice. Weed management by bispyribac resulted maximum yield (36.7 q/ha) followed by farmers practice (33.5q/ha). This treatment has also maximum net return (Rs. 42405/ha) and 2.9 B:C ratio over farmers practice.

Technology Option	No. of trials	Yield (q/ha)	Yield increase (%)	Net Return (Rs./ha)	B:C Ratio
T-1: Farmer's practice (one hand weeding)	5	33.5	-	35725	2.5
T-2: Bispyribac (35 gm/ha)		36.7	8.71	42405	2.9

WEED MANAGEMENT

Problem definition: *Poor yield due to Infestation of weeds in wheat crop*

Technology assessed or refined (as the case may be): Chemical weed management in wheat crop

Wheat is the main crop during rabi season in district Banda. In many areas wheat crop has been taken just after rice crop and on the other hand fallow- wheat and pulses wheat cropping system is years of the practice. Wheat crop faces weed infestation mainly of *Phalaris minor, Avena Spp., Anagalis arvensis* and *Solanum spp.* A chemical weed management method was evaluated by KVK, Banda at five farmers field's of two villages. A popular herbicide combination namely, Chlorimuron+Metsulfuron methyl were tested against the farmer practice (hand weeding). The chemical weedicide increases 8.95% yield in Raj 4120 variety of wheat. Weed management by Chlorimuron+Metsulfuron methyl resulted maximum yield (32.4 q/ha) followed by farmers practice (29.5 q/ha). This treatment has also maximum net return (Rs. 39206 /ha) and 2.92 B:C ratio over farmers practice.

Technology Option	No. of trials	Yield (q/ha)	Yield increase (%)	Net Return (Rs./ha)	B:C Ratio
T-1: Farmer's practice (one hand weeding)	5	29.1	-	39206	2.62
T-2: Chlorimuron+Metsulfuron methyl (8 gm/ha)		32.4	10.18	33134	2.92

Integrated Crop Management

Problem definition: Poor yield and quality of tomato fruits due to lack of knowledge about staking and proper spacing

Technology Assessed or Refined (as the case may be): To assess the effect of staking with recommended spacing on yield and quality of tomato production

KVK, Banda has assessed the effect of staking with recommended spacing (60cm X 60cm 60) on yield and quality of tomato where 3 trials have been conducted at farmers field. It was found that 52.50 per cent yield increased by staking with proper spacing method over flat bed method.

Treatments	Yield (Q/ha.)	% change in Yield	No. of fruit/plant	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net Income	BC Ratio**
T_1	178.0	-	26	55900	178000	122100	3.18
T_2	272.0	52.80	42	62900	272000	199600	4.32

Interference & Feed back	Staking with proper spacing (60cm X 60cm) method was found effective than flat bed method
Farmers Reaction	Staking method of planting of tomato gave higher yield accepted by majority of farmers of Banda District

PEST AND DISEASE MANAGEMENT

Problem definition: *low* yield and poor quality of paddy due to heavy infeastation of stem borer and leaf folder

Technology Assessed (as the case may be): *IPM approach for Stem borer and leaf folder in paddy*

Remarkable reduction in yield has been observed due to heavy infestation of stem borer and leaf folder in paddy. KVK, Banda conducted OFT for assessing the Integrated approach of stem borer and laef folder in paddy.IPM module i.e. foliar spray of Azadirachtin (1500ppm)@ 5ml per litre, Fipronil@7.5Kg/acre and Profenophos @2 ml/lit spray at ETL. The results revealed that the crop yield increased 22.1% and the number of dead heart decreased by 20.85% and 5.02% over T1 and T2 respectively. The net return and B:C ratio increased by Rs.73000 per ha. and 0.13 over farmer's practice.

Table : Performance of Intergarted approaches for stem borer and leaf folder in paddy

Technology Option	*No.of trials*	*Area(h.)*	*Dead heart plants(%)*	*Yield (Q/ha)*	*% Increase in yield over farmer's practice*	*Gross cost(Rs./ ha)*	*Gross return(Rs./ha)*	*Net Returns (Rs./ha)*	*B:C Ratio*
Farmer's practice (chemical spray of choropyriphos @ 2.0L/ha)	10	04	18.00	36.00	22.1	25000	91800	66800	1.67
foliar spray of Azadirachtin (1500ppm)@ 5ml per litre, Fipronil@7.5Kg/acre and Profenophos @2 ml/lit. spray at ETL *(Recommended Practice)*			6.02	44.00		26000	99000	73000	1.80

MSP@Rs.2550/Q

PEST AND DISEASE MANAGEMENT

Problem definition: *low* yield of chickpea due to severe infestation of pod borer
Technology Assessed (as the case may be): *IPM approach for pod borer management in chickpea*

Table : Performance of Integrated Pest Management for pod borer in chickpea

Technology Option	***No.of trials***	***Area(hac.)***	***Plant infeastation(%)***	***No. of larvae/ plant***	***Yield (Q/ ha)***	***% Increase in yield over farmer's practice***	***Gross cost(Rs./ha)***	***Gross return(Rs. /ha)***	***Net Returns (Rs./ha)***	***B:C Ratio***
Farmer's practice (chemical spray of Emamectin benzoate @ 500ml/ha)	***15***	***06***	***Result awaited***							
*Bird percher@50/ha, nipping process before flowering,*foliar spray of Azadirachtin (1500ppm)@ 5ml per litre, and spray of Indexcarb@500ml/ha at podding time at ETL *(Recommended Practice)*										

PEST AND DISEASE MANAGEMENT

Problem definition: *low yield of chickpea due to severe infestation of pod borer*
Technology Assessed or Refined (as the case may be): IPM approach for pod borer management in chickpea

Pod borer is a major pest of chickpea, responsible for heavy reduction (23.4 percent) in yield. KVK, Banda has conducted OFT on integrated pod borer management in chickpea. IPM approach i.e. installation of bird perchers@ 50/ha, nipping process before flowering stage, foliar spray of Azadirachtin (1500ppm)@ 5ml/lit at vegetative and flowering stage and spray of Indexcarb@500ml/ha at podding time at ETL(one larvae/m row length) was used for assessing the IPM approach for pod borer in chickpea. Results of OFT revealed that the yield of T2 was increased by 23.4 percent while number of larvae/m^2 infestation decreased to 14.2 q/ha and the yield was increased to 11.5q/ha over farmers practice. The net return was Rs 11224/ha and B:C ratio was 0.39. Farmers are satisfied by this technology for pod borer management.

Technology Option	***No.of trials***	***Plant infestation (%)***	***No. of larvae/plant***	***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***
T1- Only chemical spray of Emamectin benzoate @500ml/ha *(Farmers Practice)*	*10*	*16.1*	*1.8*	*11.5*	--	*23000*	*53130*	*30130*	*2.31*
T2- Bird percher@50/ha, nipping process before flowering, spray of Azadirachtin (1500ppm)@ 5ml/lit, spray of Indexcarb@ 500ml/ha at podding time		3.2	0.56	14.2	23.4	24250	65604	41354	2.70

MSP@4620Rs/Q

ANIMAL SCIENCE

Problem Definition: Low milk production in dairy buffaloes

Technology Assessed or Refined (as the case may be): To assess the effect of feeding calcium supplement after deworming on milk production in buffaloes

KVK Banda has conducted trial to find out the reason for low milk production in dairy buffaloes kept by farmers. Lack of knowledge regarding feeding of calcium supplement among farmers is the key reason behind the low production problem. The technology recommended (feeding calcium supplement @70 ml/day/animal) resulted in increase in milk yield by 17.30 %.

Technology Option	*No.of trials*	*Milk Yield lt./day/animal*	*Yield increase (%)*	*Gross cost (Rs./day/animal)*	*Gross return (Rs/day/animal)*	*Net Return (Rs/day/animal)*	*B:C Ratio*
T_1 Farmers Practice (Straw+Green Fodder + Concentrate)	6	5.2	-	60	208	148	3.46
T_2 Calcium supplement @70 ml /day/animal + Farmers Practice		6.1	17.30	68	244	173	3.58

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_1 (Traditional Method)	21 Kg	132/89 mmHg	110	55 %	68	48
T_2 (Mechanized Method)	30 Kg	119/80 mmHg	81	22 %	48	23

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.

AGRICULTURAL EXTENSION

Problem definition: Poor yield of Rabi pulse (Chickpea) due to less adoption of scientific package of practices of Chickpea

Technology Assessed or Refined (as the case may be): Impact assessment of different extension teaching methods for adoption of scientific package of practices of Rabi pulses (Chickpea)

Chickpea is the main Rabi pulse crop under rainfed condition of U.P. Bundelkhand. There is wide variation in the yield of Chick pea across the 7 districts of U.P. Bundelkhand because of the low adoption of recommended package of practices of Chickpea among the farming community. To accelerate adoption among farming community extension teaching methods were playing a crucial role. Hence KVK, Banda has initiated the trial on impact assessment of different extension teaching methods for adoption of scientific package of practices of Rabi pulse (Chickpea). In this trail one training on scientific package of practices of Chickpea and CFLD on Chick pea has been given to 5-5 farmers and their level of adoption of scientific package of practices of Chickpea crop have been assessed and it was found that the level of adoption has increased by 13.75 and 16.25 per cent after exposure to training and demonstration respectively to the farmers.

S. No.	Extension teaching methods	Level of adoption (%)		
		Pre	Post	Difference
1	Check (n=5)	38.75	40	1.25
2	Training (T1) (n=5)	37.5	51.25	13.75
3	Demonstration (T2) (n=5)	40	62.5	22.5

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2018 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.							
2.							

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

b. Details of FLDs implemented during **2019** (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.	Paddy	WM	(Bispiyribac (35gm/h)	Kharif (2019-20)	05	05	0	5	5	
2.	Wheat	ICM	Water soluble fertilizer application	Rabi (2018-19)	10	10	2	23	25	
3.	Wheat	ICM	Water soluble fertilizer application	Rabi (2019-20)	6.0	6.0	2	13	15	
4.	Okra	VE	HYV (Kashi Kranti)	Kharif (2019-20)	1	1	0	5	5	
5.	Onion	VE	HYV (L883)	Kharif (2019-20)	0.5	0.5	0	2	2	
6.	Tomato	VE	HYV (Kashi Anmol)	Rabi (2018-19)	1	1	5	3	8	
7.	Tomato	VE	HYV (Kashi Anmol)	Rabi (2019-20)	3.0	3.0	5	10	15	
8	Chilli	VE	HYV (Kashi Uttam)	Rabi (2019-20)	1.0	1.0	4	6	10	
9	Chilli	VE	HYV (Kashi Uttam)	Rabi (2018-19)	1	1	6	2	8	
10	Brinjal	VE	HYV (Kashi Kranti)	Rabi (2018-19)	1	1	6	2	8	
11	Brinjal	VE	HYV (Kashi Kranti)	Rabi (2019-20)	1	1	5	5	10	
12	Mustard	IPM	IPM	Rabi (2018-19)	5	10	1	9	10	
13	Brinjal	IPM	IPM	Rabi (2018-19)	4	1.6	0	4	4	
14.	Mustard	IPM	Yellowstickytrap@12/acre,spray azadiractin(0.03%)@5ml/lit., at preflowering time and	Rabi (2019-20)	10	10	3	17	20	

			spray of Imadiacloprid 17.8sl@1ml/3lit. water+1ml. sticker/lit. of water at 15 days of interval							
15.	Brinjal	IPM	Clipping of damaged shoots and early infested fruits at weekly interval,foliar spray of azadiractin(0.03%) @5ml/lit., spray of Prefenophos50%EC@2ml/lit., at flowering and fruiting time	Kharif (2019-20)	8.8	22	0	22	22	
16	Kitchen Garden	Kitchen Garden	Kitchen Garden Kit	Rabi (2018-19)	0.8	0.8	8	24	32	
17	Buffalo	Feed managemnet	Mineral Mixture	Rabi (2018-19)	24	24	0	8	8	
18	Kitchen Garden	Kitchen Garden	Kitchen Garden Kit	Rabi (2018-19)	15	15	7	8	15	
19	Buffalo	Feed managemnet	Mineral Mixture	Rabi (2019-20)	24	24	2	10	12	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)
				N	P	K				
Paddy	*Kharif*	Irrigated	Clay loam	low	Medium	Medium	Fellow	July, 3rd week	Nov. 4th week	835 mm
Okra	*Kharif*	Irrigated	Clay loam	low	Medium	Medium	Fellow	August, 1nd week	Dec. 1rd week	874 mm
Onion	*Kharif*	Irrigated	Clay Loam	Low	Medium	Medium	Fellow			895 mm
Tomato	*Rabi*	Irrigated	Clay loam	low	Medium	Medium	Okra	Nov. 2nd week	March, 2nd week	12.75
Chilli	*Rabi*	Irrigated	Clay loam	low	Medium	Medium	Cucurbits	Nov. 2nd week	March, 2nd week	12.75
Brinjal	*Rabi*	Irrigated	Clay loam	low	Medium	Medium	Cucurbits	Nov. 2nd week	March, 2nd week	12.75
Mustard	*Rabi*	Irrigated	Clay loam	low	Medium	Medium	Fellow	Nov. 1st week	March 1st week	12.75

Technical Feedback on the demonstrated technologies

S. No	**Feed Back**
1 Bispiyribac (35gm/ha)	Bispyribac applied in upland condition control weed infestation upto 70%.
1. Okra (Kashi Kranti)	Resistant to YMV, medium plant height, 35-40 fruits/plant
2. Onion (L883)	Bulb medium in size, attractive in colour
3. Chilli (Kashi Anmol)	Resistant to leaf curl virus, profuse flowering and fruiting
4. Tomato (Kashi Aman)	Determinate type, Resistant to leaf curl virus, medium fruits size, 35-38 fruits/plant
5. Brinjal (Kashi Uttam)	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

Farmers' reactions on specific technologies

S. No	Feed Back
1 Bispiyribac (35gm/ha)	Farmers were satisfied with the result of chemical weedicide in term of weed infestation and crop yield.
2. Okra (Kashi Kranti)	Farmers liked the variety Kashi Kranti due to resistant to YMV and yield performance.
3. Onion (L883)	Farmers liked the variety due to medium in size and heavy demand in the market before availability of Rabi Onion
4. Chilli (Kashi Anmol)	Farmers liked the variety Kashi Anmol due to resistant to leaf curl virus and yield performance
5. Tomato (Kashi Aman)	Farmers liked the variety Kashi Aman due to resistant to leaf curl virus and yield performance
6. Brinjal (Kashi Uttam)	Maximum number of fruits per plant (20-25 fruits/plant) and resistant to mycoplasma disease but this variety was less preferred by the farmers of Banda due to its indigo colour
7. Okra (Kashi Kranti)	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.
8. IPM in Brinjal	Farmers were satisfied with the IPM technologies as it was low cost and locally manageable

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	03	19.02.2019 01.03.2019 14.03.2019	14+15+19=48	-
2	Farmers Training	01	06.06.2018	26	
3	Media coverage	44		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)				% 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	IPM	Yellowstickytrap@12/acre,spray azadiractin(0.03%)@5ml/lit., at preflowering time and spray of Imadiacloprid 17.8sl@1ml/3lit. water+1ml. sticker/lit. of water at 15 days of interval	Giriraj	20	10	Result awaited												
	IPM	Yellow sticky trap@12/Acre, Spray Azadirachtin (1500PPM)@5ml/lit at pre flowering time and spray of Imidacloprid 17.8 SL@ 1ml/3 lit +1ml sticker/litre of water at 15 days of interval	Pitambari	10	10	13.1	10	12.0	9.3	29.0	16500	50400	33900	3.05	15200	39060	23860	2.56
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																		
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											
					High	Low	Average			Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cereals																			
Paddy	Weed management	Bispiyribac (35gm/ha)	05	05	48	31	39.2	32.8	19.77%			20675	68600	47925	3.31	20100	57400	37300	2.85
Waterlogged Situation																			
Coarse Rice																			
Scented Rice																			
Wheat	Integrated Nutrient management	Water soluble fertilizer application	25	10	39.6	32.1	35.85	31.8	12.73			21211	65964	44753	3.1	20020	58512	38492	2.92
	Integrated Nutrient management	Water soluble fertilizer application	15	6.0	Result awaited														
Wheat Timely sown																			
Wheat Late Sown																			
Mandua																			
Barley																			
Maize																			
Amaranth																			

Millets																			
Jowar																			
Bajra																			
Barnyard millet																			
Finger millet																			
Vegetables																			
Bottlegourd																			
Bittergourd																			
Cowpea																			
Spongegourd																			
Petha																			
Tomato	**Varietal evaluation**	**Kashi Aman**	**8**	**1.0**	**286**	**232**	**259**	**163**	**58.89**			**55900**	**259000**	**203100**	**4.63**	**47300**	**163000**	**115700**	**3.44**
	Varietal evaluation	**Kashi Aman**	15	3.0	Result Awaited														
Frenchbean																			
Capsicum																			
Chilli	**Varietal evaluation**	**Kashi Anmol**	**8**	**1.0**	**112**	**97**	**104.5**	**76.5**	**36.60**			**43000**	**104500**	**61500**	**2.43**	**39100**	**76500**	**37400**	**1.96**
	Varietal evaluation	**F 1 Hybrid**	10	1.0	Result Awaited														
Brinjal	IPM	Clipping of damaged shoots and early infested fruits at weekly interval,foliar spray of azadiractin(0.03%) @5ml/lit.,	22	8.8	210	165.5	187.8	140.7	33.48%	-	-	22700	93750	71050	4.13	21500	70350	48850	3.27

		spray of Prefenophos50%EC@2ml/lit ., at flowering and fruiting time																	
	Varietal Evaluation	Kashi Uttam	8	1.0	**286**	**211**	**248.5**	**167**	**48.80**			**51300**	**248500**	**19720 0**	**4.84**	**49400**	**16700 0**	**11760 0**	**3.38**
	Varietal Evaluation	F 1 Hybrid	10	1.0	Result Awaited														
Vegetable pea																			
Softgourd																			
Okra	**V.E.**	**HYV (Kashi Kranti)**	08	**0.5**	**101**	**80**	**90.5**	**60.6**	**49.34**	**-**	**-**	**20600**	**90500**	**69900**	**4.39**	**18900**	**60600**	**41700**	**3.21**
Colocasia (Arvi)																			
Broccoli																			
Cucumber																			
Onion	**V.E.**	**HYV (L-883)**	**02**	**0.5**	**225.5**	**214.5**	**220**	*****	**37.50**	**-**	**-**	**76500**	**880000**	**803500**	**11.50**				
• As Kharif Onion introduce first time in the area.																			
Coriender																			
Lettuce																			
Cabbage																			
Cauliflower																			
Elephant fruit																			
Flower crops																			
Marigold																			

Bela																			
Tuberose																			
Gladiolus																			
Fruit crops																			
Mango																			
Strawberry																			
Guava																			
Banana																			
Papaya																			
Muskmelon																			
Watermelon																			
Spices & condiments																			
Ginger																			
Garlic																			
Turmeric																			
Commercial Crops																			
Sugarcane																			
Potato																			

Medicinal & aromatic plants																			
Mentholment																			
Kalmegh																			
Ashwagandha																			
Fodder Crops																			
Sorghum (F)																			
Cowpea (F)																			
Maize (F)																			
Lucern																			
Berseem																			
Oat (F)																			

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle																	
Buffalo	Feed management	Mineral Mixture	12	24	Results Awaited												
	Feed Management	Mineral Mixture	8	24	6.1	5.4	12.96			69	232	163	3.36	62	216	199	4.21
Buffalo Calf																	
Dairy																	
Poultry																	
Sheep & Goat																	
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 Fisheries

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

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

FLD on Other enterprises

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

Value Addition																
Vermi Compost																

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	15	15	220	-	100	Easy availability and fresh veg.	-	220.00	1500.00	1280.00	6.8	-	-	-	-
Vegetables	Nutritional Security through kitchen gardening	Kitchen gardening kit	32	32	Result awaited												

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

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

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

III. Training Programme (Jan 2019 to December 2019)

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
I Crop Production										
Weed Management	3	64	0	64	1	0	1	65	0	65
Resource Conservation Technologies										
Cropping Systems	5	109	7	116	16	4	20	125	11	136
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify)										
Total	**8**	**173**	**7**	**180**	**17**	**4**	**21**	**190**	**11**	**201**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	2	59	0	59	11	0	11	70	0	70
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	32	0	32	0	0	0	32	0	32
Others (pl specify)										
Total (a)	**3**	**91**	**0**	**91**	**11**	**0**	**11**	**102**	**0**	**102**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	1	18	16	34	3	0	3	21	16	37
Cultivation of Fruit	1	23	0	23	10	0	10	33	0	33
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)	**2**	**41**	**16**	**57**	**13**	**0**	**13**	**54**	**16**	**70**
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)	**5**	**132**	**16**	**148**	**24**	**0**	**24**	**156**	**16**	**172**
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	2	57	0	57	9	0	9	66	0	66
Poultry Management	1	20	0	20	10	0	10	30	0	30
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	25	0	25	9	0	9	34	0	34
Disease Management	2	39	2	41	13	0	13	52	2	54
Feed & fodder technology	1	22	1	23	3	3	6	25	4	29
Production of quality animal products										
Others (pl specify)	1	23	3	26	0	0	0	23	3	26
Total	**8**	**186**	**6**	**192**	**44**	**3**	**47**	**230**	**9**	**239**
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	1	0	12	12	0	2	2	0	14	14
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	0	15	15	0	7	7	0	22	22
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**2**	**0**	**27**	**27**	**0**	**9**	**9**	**0**	**36**	**36**
VI Agril. Engineering										
Farm Machinary 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	02	25	21	46	-	04	04	25	25	50
Integrated Disease Management	01	21	-	21	03	-	03	24	-	24
Bio-control of pests and diseases										

Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**3**	**46**	**21**	**67**	**3**	**4**	**7**	**49**	**25**	**74**
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	8	1	9	5	1	6	13	2	15
Formation and Management of SHGs	1	0	23	23	0	2	2	0	25	25
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
Others (pl specify)	1	16	0	16	5	0	5	21	0	21
Total	**3**	**24**	**24**	**48**	**10**	**3**	**13**	**34**	**27**	**61**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**29**	**561**	**101**	**662**	**98**	**23**	**121**	**659**	**124**	**783**

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	2	29	0	29	8	2	10	37	2	39
Resource Conservation Technologies	1	20	0	20	1	0	1	21	0	21
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										

Nursery management										
Integrated Crop Management										
Soil & water conservatioin	1	11	0	11	8	4	12	19	4	23
Integrated nutrient management	2	40	2	42	5	2	7	45	4	49
Production of organic inputs										
Others (pl specify)										
Total	**6**	**100**	**2**	**102**	**22**	**8**	**30**	**122**	**10**	**132**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	4	102	0	102	15	4	19	117	4	121
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify)										
Total (a)	**4**	**102**	**0**	**102**	**15**	**4**	**19**	**117**	**4**	**121**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	2	47	9	56	7	0	7	54	9	63
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)	**2**	**47**	**9**	**56**	**7**	**0**	**7**	**54**	**9**	**63**
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)	**6**	**149**	**9**	**158**	**22**	**4**	**26**	**171**	**13**	**184**
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										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	1	27	0	27	5	0	5	32	0	32
Feed & fodder technology										
Production of quality animal products	1	20	1	21	6	3	9	26	4	30
Others (pl specify)	1	23	3	26	0	0	0	23	3	26
Total	**3**	**70**	**4**	**74**	**11**	**3**	**14**	**81**	**7**	**88**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1		13			27			40	40
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing	1		22			11			33	33
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques	1		22			16			38	38
Value addition										
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care	1		29			4			33	33
Others (pl specify)										
Total	**4**	**0**	**86**	**86**	**0**	**58**	**58**	**0**	**144**	**144**
VI Agril. Engineering										
Farm Machinary 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	03	55	-	55	18	-	18	73	-	73
Integrated Disease Management	01	18	-	18	11	02	13	29	02	31
Bio-control of pests and diseases	01	22	-	22	02	-	02	24	-	24
Production of bio control agents and bio pesticides	01	02	20	22	01	-	01	03	20	23
Others (pl specify)										
Total	**6**	**97**	**20**	**117**	**32**	**2**	**34**	**129**	**22**	**151**
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	0	17	5	0	5	22	0	22
Formation and Management of SHGs										
Mobilization of social capital	1	18	2	20	5	2	7	23	4	27
Entrepreneurial development of farmers/youths										
WTO and IPR issues	1	20	0	20	5	0	5	25	0	25
Others (pl specify) (ICT)	3	39	18	57	12	1	13	6	2	70
Total	**6**	**94**	**20**	**114**	**27**	**3**	**30**	**121**	**23**	**144**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**31**	**510**	**141**	**651**	**114**	**78**	**192**	**624**	**219**	**843**

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
I Crop Production										
Weed Management										
Resource Conservation Technologies	5	93	0	93	9	2	11	102	2	104
Cropping Systems	1	20	0	20	1	0	1	21	0	21
Crop Diversification	5	109	7	116	16	4	20	125	11	136
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management	1	11	0	11	8	4	12	19	4	23
Production of organic inputs	2	40	2	42	5	2	7	45	4	49
Others (pl specify)										
Total	**14**	**273**	**9**	**282**	**39**	**12**	**51**	**312**	**21**	**333**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops	6	161	0	161	26	4	30	187	4	191
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	32	0	32	0	0	0	32	0	32
Others (pl specify)										
Total (a)	**7**	**193**	**0**	**193**	**26**	**4**	**30**	**219**	**4**	**223**
b) Fruits										
Training and Pruning										

Layout and Management of Orchards	1	18	16	34	3	0	3	21	16	37
Cultivation of Fruit	3	70	9	79	17	0	17	87	9	89
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)	**4**	**88**	**25**	**113**	**20**	**0**	**20**	**108**	**25**	**133**
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)	**11**	**281**	**25**	**306**	**46**	**4**	**50**	**327**	**29**	**356**
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	2	57	0	57	9	0	9	66	0	66
Poultry Management	1	20	0	20	10	0	10	30	0	30
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	1	25	0	25	9	0	9	34	0	34
Disease Management	3	66	2	68	18	0	18	84	2	86
Feed & fodder technology	1	22	1	23	3	3	6	25	4	29
Production of quality animal products	1	20	1	21	6	3	9	26	4	30
Others (pl specify)	2	46	6	52	0	0	0	46	6	52
Total	**11**	**256**	**10**	**266**	**55**	**6**	**61**	**311**	**16**	**327**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1		13	13		27	27		40	40
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet	1		12	12		2	2		14	14

Minimization of nutrient loss in processing	1		22	22		11	11		33	33
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques	1		22	22		16	16		38	38
Value addition	1		15	15		7	7		22	22
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care	1		29	29		4	4		33	33
Others (pl specify)										
Total	**6**	**0**	**113**	**113**	**0**	**67**	**67**	**0**	**180**	**180**
VI Agril. Engineering										
Farm Machinary 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	05	80	21	101	18	04	22	98	25	123
Integrated Disease Management	02	39	-	39	14	02	16	53	02	55
Bio-control of pests and diseases	01	22	-	22	02	-	02	24	-	24
Production of bio control agents and bio pesticides	01	02	20	22	01	-	01	03	20	23
Others (pl specify)										
Total	**9**	**143**	**41**	**184**	**35**	**6**	**41**	**178**	**47**	**225**
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	2	25	1	26	10	1	11	35	2	37

Formation and Management of SHGs	1	0	23	23	0	2	2	0	25	25
Mobilization of social capital	1	18	2	20	5	2	7	23	4	27
Entrepreneurial development of farmers/youths										
WTO and IPR issues	1	20	0	20	5	0	5	25	0	25
Others (pl specify)	4	55	18	73	17	1	18	72	19	91
Total	**9**	**118**	**44**	**162**	**37**	**6**	**43**	**155**	**50**	**205**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**60**	**1071**	**242**	**1313**	**212**	**101**	**313**	**1283**	**343**	**1626**

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	1	21	0	21	0	0	0	21	0	21
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	01	12	-	12	08	-	08	20	-	20
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	1	-	18	18		10	10	-	28	28
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching	1		42	42		16	16		58	58
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**4**	**33**	**60**	**93**	**8**	**26**	**34**	**41**	**86**	**127**

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										
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										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL										

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	1	21	0	21	0	0	0	21	0	21
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	01	12	-	12	08	-	08	20	-	20
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	1	-	18	18		10	10	-	28	28
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching	1		42	42		16	16		58	58

Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**4**	**33**	**60**	**93**	**8**	**26**	**34**	**41**	**86**	**127**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	1	1	18	19	0	7	7	1	25	26
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application	2	30	0	30	26	0	26	56	0	56
Management in farm animals										
Livestock feed and fodder production	**1**	**20**	**2**	**22**	**5**	**0**	**5**	**25**	**2**	**27**
Household food security										
Any other (Propagation Methods of horticultural crops)	1	8	2	10	7	0	7	15	2	17
TOTAL	**5**	**59**	**22**	**81**	**38**	**7**	**45**	**97**	**29**	**126**

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	**01**	**14**	**0**	**14**	**11**	**0**	**11**	**25**	**0**	**25**
Integrated Pest Management	**01**	**01**	**18**	**19**	**-**	**07**	**07**	**01**	**25**	**26**
Integrated Nutrient management	**01**	**11**	**0**	**11**	**13**	**0**	**13**	**24**	**0**	**24**
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care	**1**	**0**	**25**	**25**	**0**	**12**	**12**	**0**	**37**	**37**
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										

Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	**4**	**26**	**43**	**69**	**24**	**19**	**43**	**50**	**62**	**112**

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	1	14	0	14	11	0	11	25	0	25
Integrated Pest Management	2	2	36	38	0	14	14	2	50	52
Integrated Nutrient management	1	11	0	11	13	0	13	24	0	24
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care	1	0	25	25	0	12	12	0	37	37
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application	2	30	0	30	26	0	26	56	0	56
Management in farm animals										
Livestock feed and fodder production	1	20	2	22	5	0	5	25	2	27
Household food security										
Any other (Propagation Methods of horticultural crops)	1	8	2	10	7	0	7	15	2	17
TOTAL	**9**	**85**	**65**	**150**	**62**	**26**	**88**	**147**	**91**	**238**

Table. Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	**2**	**112**	**0**	**112**	**42**	**0**	**42**	**154**	**0**	**154**
Commercial production of vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total	**2**	**112**	**0**	**112**	**42**	**0**	**42**	**154**	**0**	**154**
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										

Fisheries Management										
Others (pl. specify)										
Total										
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity Building and Group Dynamics										
Others (pl. specify) (Quality seed production and Vermicomposting training by ASCI)	2	30	0	30	10	0	10	40	0	40
Total	2	30	0	30	10	0	10	40	0	40
GRAND TOTAL	**4**	**142**	**0**	**142**	**52**	**0**	**52**	**194**	**0**	**194**

***Name of sponsoring agencies involved: State department of Agriculture for Master Trainer programme for *Kisan Pathshala* Programme.**

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
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition										
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting	**1**	**19**	**0**	**19**	**1**	**0**	**1**	**20**	**0**	**20**
Production of bio-agents, bio-pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm machinery										
and implements										
Rural Crafts										
Seed production	**1**	**19**	**0**	**19**	**1**	**0**	**1**	**20**	**0**	**20**
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dying etc.										
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total	**2**	**38**	**0**	**38**	**2**	**0**	**2**	**40**	**0**	**40**
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total	**2**	**38**	**0**	**38**	**2**	**0**	**2**	**40**	**0**	**40**

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	24	543	4	547
Diagnostic visits	46	267	08	275
Field Day	12	225	13	238
Group discussions	24	146	14	160
Kisan Ghosthi	34	1550	60	1610
Film Show	01	50	02	52
Self -help groups	02	30	2	32
Kisan Mela	04	1690	25	1715
Exhibition	02	450	08	458
Scientists' visit to farmers field	94	182	21	203
Plant/animal health camps	02	57	07	64
Farm Science Club				
Ex-trainees Sammelan				
Farmers' seminar/workshop	01	25	06	31
Method Demonstrations				
Celebration of important days	5	1250	114	1364
Special day celebration	5	450	23	473
Exposure visits	3	158	08	166
Others (pl. specify)				
Total	**259**	**7073**	**315**	**7388**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	
Extension Literature	05
News paper coverage	132
Popular articles	08
Radio Talks	-
TV Talks	08
Animal health amps (Number of animals treated)	2 (192)
Others (pl. specify)	
Total	**153 (192)**

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
	Text only	04	01	-	-	07	-	12
	Voice only							
	Voice & Text both							
	Total Messages	04	01	-	-	07	-	12
	Total farmers Benefitted	**7000**	**500**	**-**	**-**	**6000**	**-**	**13500**

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 organized			
	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	Paddy	PB-1718		10.50		
Oilseeds						
Pulses						
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			3000		110
	Chilli			4000		50
	Tomato			10000		154
	Cauliflower			3000		100
	Broccoli			500		20
	Cabbage			2500		120
Fruits	Papaya			550		50
	Moringa			20		-
	Jackfruit			50		20
	Jamun			30		10
	Custard apple			50		15
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
Total						

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers	NADEP Compost	10000	20000	
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	Tharparkar	1608 litres milk	72360	
Buffaloes				
Calves				
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				

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	**140**	**62**	**07**	
Water				
Plant				
Manure				
Others (pl.specify)				
Total				

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
KVK, Banda	2 (15.02.2019 and 15.10.2019)

IX. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution
Banda Krishi Samachar issue- 04	1000
Banda Krishi Samachar issue- 05	1000
Bundeli Krishi Chaupal: Krishak vikas hetu ek shaskat madhyam	200
Pratham Bundeli Krishi Chaupal	200

X. PUBLICATIONS

Category	Number
Research Paper	02
Technical bulletins	01
Technical reports	03
Others (pl. specify)/Abstract	13

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

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

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

Introduction of alternate crops/varieties

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

Major area coverage under alternate crops/varieties

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

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants
Total		

Animal health camps organised

Number of camps	No.of animals	No.of farmers
02	**192**	**57**
Total		

Seed distribution in drought hit states

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

Large scale adoption of resource conservation technologies

Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Ridge sowing	50	54
Pond construction		45
Bunding	55	70
Total		

Awareness campaign

	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
Total												

XIII. DETAILS ON HRD ACTIVITIES

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

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
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

KVK Case study-01

Organic Farming: A Boon For Bundelkhand

Situation analysis/ Problem statements:- Mr. Vigyan Sukha, village Attara Gramin, Post: Atarra block: Naraini, district: Banda, was given training on different aspect of organic farming.. He was earlier involved with traditional; agriculture. He was growing paddy-wheat/Gram/ Lentil in his 1.5 hac. Land. He was hardly getting net profit of Rs.1.00 lakh Per year.

Plan, Implement and Support:- KVK Bnada given training on different aspect of organic farming like preparation of vermicomposting, NADEP compost, bio-fertilzers, bio-pesticide, mushroom etc. This KVK has encouraged the farmer for preparation and marketing of organic products.

Output:- Mr. Vigyan Sukla adopted the different aspect of organic farming as per suggestion of KVK's scientist for his 1.5 ha land. He has also opened a commercial dairy with 62 indigenous cows and 4 Murrah Buffaloes. Currently he is producing 220 litres milk per day and 5000 qt. vermicompost per year. The economical gain in terms of per unit expenditure gross income, net return and BCR are recorded. Rs 263000, Rs. 1582000, Rs. 1319000 and 6.01 respectively.

Outcome:- The outcome in terms of quality and price of produce motivated the other farmers to produce organic products. Mr. Vigyan Sukla is very happy on improvement in their income, livelihood and set forth example for others. He also promoted by Line department of Banda. He got sanction of opening Jaivik outlet centre under RKVY scheme.

Impact:- Mr. Vigyan Sukla is becoming one of the progressive and learned farmers for others with regards to popularization of organic farming in Bundelkhand region. This technology helps him for livelihood, empowerment and make him enthusiastic regards organic farming. He is one of the progressive farmer after a becoming a part of KVK activities and get their effectiveness for his own development. Mr. Sanjay Singh is very happy with this improved production and management technology and set forth example for other farmers of the district.

Farmer with Hon'ble MP, Banda znd Chitrakoot and KVK's scientist

KVK, Scientists inspecting vermicompost unit

KVK Case study-02

Vegetable Production: Boon For Small And Marginal Farmers

Situation analysis/ Problem statements:- Mr. Gaya Prashad, village Bargaahni, block: Badhokhar Khurd district: Banda, a farmer who was selected for Front line demonstration of Tomato (Kashi Aman). He was earlier involved production of agricultural crops like Gram, Lentil, Green gram in his 1 acre land. He has limited income with this profession.

Plan, Implement and Support:- KVK, Banda has encouraged the farmer for scientific package of practices of Tomato, chilli, and Brinjal crop starting from land preparation to harvesting. The High yield variety of Tomato, chilli, and Brinjal was adopted by the farmers.

Output:- Mr. Gaya Prashad adopted the scientific package of practices of Tomato, chilli, and Brinjal crop as per suggestion of KVK's scientist. He has taken 3 acre land on lease for vegetable production. Now he is growing HYV of Tomato, chilli, and Brinjal in 4 acres of Land. The economical gain in terms of per unit expenditure gross income, net return and BCR are recorded. Rs 0.9 Lakh, Rs. 3.45 Lakh , Rs. 2.54 Lakh and 3.89 correspondingly.

Outcome:- Mr. Gaya Prashad is very happy with quality and production of vegetable. He is also satisfied with improvement in his income, livelihood and also set forth example for other farmers.

Impact:- Mr. Gaya Prashad is becoming one of the progressive and learned farmers for others with regards to popularization of Vegetable farming. Mr. Sanjay Singh is very happy with this improved production and management technology and set forth example for other farmers of the district. He has also been awarded by KVK, Banda on the occasion of Kisan Samman Diwas.

A farmers with KVK's scientist

Brinjal Crop at farmers field

XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE (2019)

A. Details on ATICs

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

B. Details on Farmer's visit (Jan 2019 to Dec 2019)

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

C. Facilities in the ATIC which are in operation

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

D. Technology information provided

D.1. Details on technology information (Jan 2019 to Dec 2019)

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

D.2 . Publications (Print & Electronic media) (Jan 2019 to Dec 2019)

S. No	Particulars	Number sold	Revenue generated in Rs.	Number of farmers benefited
01	Books			
02	Technical bulletins			
03	Technology Inventory			
04	CDs			
05	DVDs			
06	Video films			
07	Audio CDs			
08	Others if any (please specify)			

E. Technology Products provided (Jan 2019 to Dec 2019)

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 (Jan 2019 to Dec 2019)

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

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION (Jan 2019 to Dec 2019)

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 during Jan 2019 to Dec 2019

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

C. Visits made by DE / Officials in the Directorate to KVKs during Jan 2019 to Dec 2019

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 during Jan 2019 to Dec 2019

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

E. Publication on Technology inventory during Jan 2019 to Dec 2019

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

F. Technological Products provided to KVKs during Jan 2019 to Dec 2019

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

----------XXXXXXX----------

Special programme organised by KVK, Banda

S. No.	Name of activities	No. of activities	Date	No. of participants
1	Associated in successful organization of First Extension Council Meeting of Directorate of Extension, BUAT, Banda	01	13.04.2019	70
2	Celebration of world Environment Day	01	05.05.2019	15
3	Soil health campaign	02	30.04.2019	62
4	Seed treatment campaign	04	09.05.19, 17.06.2019, 21.06.2019, 04.07.2019	97
5	Animal Health camp	02	28.06.2019 and 30.06.2019	256
6	Mushroom production awareness programme	02	21.10.2019 and 21.01.2020	43
7	Live-telecasting of Scientist farmers interaction	03	04.06.2019, 11.09.2019 and 29.01.2020	222
8	Conducted master trainers training programme at KVK under Kisan Pathshala	02	09.06.2019 and 09.10.2019	180
9	Bundelkhand Jaivik corridor programme	01	18.06.2019	89
10.	Bundeli Krishi Chaupal	01	19.06.2019	154
11.	Tree plantation programme at DFI, village, Bachheura	01	05.07.2019	57
12.	Block level Kharif Ghosthi	08	July, 2019	1270
13.	Celebration of Parthenium awareness week	01	16-22.08.2019	50
14.	Tree plantation programme	01	17.09.2019	110
15.	Live-telecasting of National Animal disease control programme	01	11.09.2019	245
16.	Live-telecasting of Prime Minister Kisan Mandhan Scheme	01	11.09.2019	245
17.	Stockholders meeting for climate Smart Agriculture	01	12-13.09.2019	38
18.	Swachhta hi Seva Pakhwada	10	11.09.2019	350
19.	Kisan Mela at Kalinger	01	23.09.2019	450
20.	Celebration of 150th anniversary of Mahatama Gandhi	01	02.10.2019	160
21.	Celebration of Mahila Kisan Diwas	01	15.10.2019	30
22.	Women Literacy Workshop organized by BAIF	01	05.10.2019	25
21.	Fertilizer use awareness programme	01	22.10.2019	144
22.	QRT review meeting	01	13-14.11.2019	07
23.	Constitutional day	01	26.11.2019	20
24.	World soil Health day	01	05.12.2019	56
25.	Kisan Samman Diwas	01	23.12.2019	83

28.	Kisan aur Vigyan Diwas	01	25.12.2019	53
	Total	**53**	**-**	**4581**

Extension Activities

Attented Kisan pathshala at village level	16	10, 13.17.20.06.2019	1060