DETAILS OF ACTION PLAN OF KVKs DURING 2023

(1st January, 2023 to 31st December, 2023)

Krishi Vigyan Kendra -Banda

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	Website
	Office	FAX		
College of Agriculture, BUAT, Banda	05192-232315	-	kvkbanda@gmail.com	kvkbanda4

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

Address	Telephone		E mail	Website
	Office	FAX		
Directorate of Extension, Banda University of Agriculture & Technology, Banda	05192-232307	232307		

1.2.b. Status of KVK website : Yes

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) :

1.2.d Status of ICT lab at your KVK : Working

1.3. Name of the Sr. Scientist & Head with phone & mobile no. : **Dr. Shyam Singh, 9450791440**

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Shyam Singh		9450791440	kvkbanda@gmail.com

1.4. Year of sanction (as per MOU)**: 2007**

1.5. Staff Position (as on 31st Aug. 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id
1	Sr. Scientist & Head	Dr. Shyam Singh	Sr. Scientist & Head	Agronomy	37400-67000	9000	46400	13.12.2017	Permanent	SC	9450791440	shyamsingh15350@gmail.com
2	vacant											
3	vacant											
4	Subject Matter Specialist/T-6	Dr. Pragya Ojha	SMS	Home Science	15600-39100	5400	21000	12.12.2017	Permanent	Other	9458891879	ojha.pragya063@gmail.com

16	15	14	13	12	11	10	9	8	7	6	5
Suppotring Staff Grade-I	Suppotring Staff Grade-I	Driver/T-1	Driver/T-1	Stenographer Grade-III	Assistant	Farm Manager/T4	Programme Assistant (Computer)/ T-4	Programme Assistant (Lab. Technician)/T-4	Subject Matter Specialist/T-6	Subject Matter Specialist/T-6	Subject Matter Specialist/T-6
Shri Preetam	Shri Raghuveer	Shri Vikas Gupta	Shri Chandra Skekhar	Shri Kamal Narayan	Shri Abhishek Shahi	Shri Girjesh Singh Yadav	Er. Ajeet Kumar Nigam	Vacant	Ms. Diksha Patel	Dr. Manvendra Singh	Dr. Manjul Pandey
Attendent	Attendent	Driver	Driver	Stenographher Grade-III	Assistant	Farm Manager			SMS	SMS	SMS
									Agriculture Extension	Animal Science	Home Science
5200-20200	5200-20200	5200-20200	5200-20200	5200-20200	9300-34800	9300-34800	9300-34800		15600-39100	15600-39100	15600-39100
1800	1800	2000	2000	2400	4200	4200			5400	5400	5400
8640	8900	6200	6200	7600	9400	9400			21000	21000	21000
01.09.2010	01.06.2010	111.12.2017	11.12.2017	11.12.2017	11.12.2017		12.12.2017		16.04.2018	15.12.2017	12.12.2017
Permanent	Permanent	Permanent	Permanent	Permanent	Permanent	Permanent	Permanent		Permanent	Permanent	Permanent
SC	SC	Other	Other	OBC	Other	OBC	Gen		Other	Other	Other
							8960987567		9893932997	8168313754	9450127662
							Aknigam01@gmail.com		Pateldiksha279@gmail.com	manav21vet@gmail.com	Manjul_csa@rediffmail.com

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.	Horticulture	--
5.	Pond	--
6.	Others if any	--

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage						Required New	Needs renovation
			Complete			Incomplete				
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction		
1.	Administrative Building	ICAR			77.00	2011		Roof level construction		
2.	Farmers Hostel	ICAR			25.50	2011		Foundation level		
3.	Staff Quarters (6)				--	--		Nill		
4.	Demonstration Units (2)				--	--		Nill		
5	Fencing				--	--		Nill		
6	Rain Water harvesting system				--	--		Nill		
7	Threshing floor				--	--		Nill		
8	Farm godown				--	--		Nill		
9	Tube Well	ICAR			10.80	2011		Incomplete		

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status	Required replacement
Jeep Bolero LX	2010	4,57,526		Fair	Yes
Tractor Massy	2010	4,74,140		Fair	Yes
Motorcycle	Not purchase				

C) Equipments& AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status	Required replacement
Cultivator	2011	--	Condemned	Yes
Disc Harrow	2011	--	Condemned	Yes
Seeddrill	2011	--	Condemned	Yes
Digital Camera	2014	7450	Not working	
Laptop+Biometric with UPS	2014	49000	Repairable	-
Desktop	2018	60000	Good	-

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

Sl.No.		Date
1.	Scientific Advisory Committee	11-10-2021

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/Fieldpea

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

a) Soil type

S. No.	Agro-climatic Zone	Characteristics
1	Zone-VI	Arid climate

b) Topography– Undulated .

2.3 Soil Types

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)
Kharif (2021-22)				
1	Paddy	47461	113527	23.92
2	Til	13159	1939	1.47
3	Black gram	3548	2118	5.97
4	Green gram	2181	1304	5.98
5	Pigeon Pea	17743	36936	20.82
6	Jowar	20777	41609	20.03
Rabi (2020-21)				
1	Wheat	161937	454602	28.07
2	Chickpea	94201	110909	11.77
3	Mustard	2670	2082	7.8
4	Field Pea	3322	4724	14.22
5	Lentil	30082	34240	11.38
6	Linseed	2595	1744	6.72

Source: District Agriculture Department.

2.5. Weather Data (2021)

S. No	Month	Rainfall (mm)	Temperature 0 C		Average Relative Humidity (%)
			Minimum	Maximum	
1	Jan-21	1.75	9.55	21.71	83.71
2	Feb-21	5.50	13.86	29.64	59.30
3	Mar-21	1.75	20.33	36.52	43.27
4	Apr-21	0.00	24.08	41.04	24.12
5	May-21	22.50	26.11	38.07	52.70
6	June-21	103.3	27.7	38.2	68.8
7	July-21	338.50	28.17	36.14	77.06
8	Aug-21	203.25	27.03	33.90	86.25
9	Sept-21	133.00	26.53	34.33	86.90
10	Oct-21	87.75	23	34.77	70.02
11	Nov-21	0.00	15.57	29.52	61.75
12	Dec-21	4.25	11.74	23.00	74.45
	Total	**901.50**			

Source: BUAT, Observatory

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			
Fish (Reservoir)			

*Statistical report (19th Livestock census)

2.7 Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Banda Sadar	Badokhar Khurd	Chahitara	Arhar, Sesmum Gram, Lentill, Wheat	Lack of Irrigation water Unavailability of improved variety seed	Moisture, Conservation Technique, Introduction of HYV, IPM, INM, IDM
	Tindvari	Amraiya	Arhar, Urd, Guava Gram, Field Pea, Lentill, Wheat, Vegetables	Lack of Irrigation water Unavailability of improved variety seed	Moisture, Conservation Technique, Introduction of HYV, IPM, INM, IDM
Baberu	Kamasin	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	Murwal	Arhar, Sesmum, Paddy Gram, Lentill, Fieldpea Wheat	Unavailability of improved variety seed	Introduction of HYV, IPM, INM, IDM
Atarra	Bisanda	Kairi	Arhar, Sesmum, Paddy Gram, Lentill, Fieldpea Wheat	Unavailability of improved variety seed	Introduction of HYV, IPM, INM, IDM

2.8 Priority thrust areas

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

3. TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
12	**110**	**42**	**214** (60 Animals)

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
99	**2429**	**280**	**10479**

Seed Production (Qtl.)	Planting material Production (Nos.)	Fish seed prod. (Nos.)	Soil Samples analyzed (Nos.)	Development of Soil Health Cards (Nos.)
(5)	(6)	(7)	(8)	(9)
200	**51600**	**N.A.**	**300**	**1200**

Quality seed distributed (q)	No. of saplings distributed (Nos.)	No. of fingerlings distributed (Nos.)	No. of livestock & poultry strains distributed (Nos.)
(10)	(11)	(12)	(13)
200	**20000**	**N.A.**	**N.A.**

B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel	Ext. activities	Supply of seeds, planting materials etc.
1.	Varietal	Wheat	Poor yield of wheat due to old varieties.	-	Demonstration of variety K 1317	-	-	Field day News coverage	Seed
2.	Varietal	Paddy	Very old varieties in general use at farmer field	-	Demonstration of variety Pant Dhan 24	-	-	Trag. Field day News coverage	Seed
3.	Varietal	Wheat	Late sown variety	OFT of variety K 1317	-	-	-	Field day News coverage	Seed
4.	Weed management	Paddy	Poor yield of wheat due to old varieties.	Chemical weed control	-			Trag. Field day News coverage	Weedicide
5.	IDM	Sesame	Poor yield and quality due stem rot and root rot disease	Assessment of IDM approach for stem rot and root rot disease in sesame	-	Management of stem rot and root rot disease	--	Trag. Field day News coverage	Bio pesticide and fungicide
6.	IDM	Paddy	Poor yield and quality due to false smut disease	Assessment of suitable chemical management of false smut disease in paddy	-	Management of false smut disease in paddy	-	Trag. Field day News coverage	fungicide
7	IDM	Lentil	Poor yield and quality due wilt and root- rot disease	Assessment of IDM approach for wilt and root rot disease in sesame		Management of wilt and root rot disease		Trag. Field day News coverage	Bio pesticide and fungicide
8	IPM	Paddy	Poor yield and quality due to stem borer and leaf folder insect infestation	-	Management of stem borer and leaf folder in Paddy through IPM approach	Management of stem borer and leaf folder in paddy	-	Trag. Field day News coverage	Insecticide and bio pesticide
9.	IPM	Chick pea	Poor yield and quality due to pod borer insect infestattion	-	Management of pod borer insect in chickpea through IPM approach	Management of pod borer insect in chickpea	-	Trag. Field day News coverage	Insecticide and bio pesticide
10	Disease Management in Livestock	Dairy	Mastitis	Assessment of feeding Vit. E and Seleniumsupplement for control of mastitis	-	Management of mastitis in dairy buffaloes	-	Trag. Field day News coverage	Vit. E and Selenium

12.	Feed Management	Dairy	Poor milk yield	Assessment of feeding by-pass protein for higher milk yield	-	Importance of feeding by-pass protein for higher milk yield	-	Trag. Field day News coverage	By-pass Protein
13.	Disease Management in Livestock	Dairy	Low conception rate and repeated artificial insemination	-	Demonstration of "Impregnated Nanofibers" for induction of Oestrus in repeat breeding Buffaloes	Management of repeat breeding in dairy animals	-	Trag. Field day News coverage	ProSync – NF Progesterone Patch
14.	Disease Management in Livestock	Dairy	Delayed would healing process in maggots infested and FMD wounds	-	Demonstration of "Antibiotic Cream and Spray" for wound treatment in Ruminant	Care and management of wounds in dairy animals	-	Trag. Field day News coverage	Antibiotic cream and Spray
15.	Value addition in weaning food/Complementary foods	Women and children	Enrichment of wheat flour with Moringa oleifera leaf powder to combat malnutrition	Wheat flour and Moringa Oleifera leaf powder	-	-	-	Field day News coverage	Wheat Flour, Moringa Oleifera leaf powder and Moringa Oleifera plant
16.	Location specific drudgery reducing technologies	Working Farm Women	High level of drudgery among farm women	Protective cloths for farm women during harvesting, threshing and winnowing activities of chickpea.	-	-	Drudgery reducing tools for Farm Women	Training Field day News coverage	Protective clothing
17.	Knowledge gain	Agricultura l Library	Lack of Information about agricultural Technologies at rural level	Assessment of Agricultural Library for updating the knowledge at village level	-	-	-	Newspaper coverage	Agricultural Magazines
18	ICM	Okra	Use of old and low productive varieties of okra	Assessment of high yielding varieties	-	-	-	Field Days	Seed, ,
19	ICM	Tomato	Planting of tomato without mulching	To assay the effect of crop residue mulch on tomato production	-	-	Importance of mulching in quality fruit production of tomato	Field Days	Seed, crop residue mulch
20	Varietal	Papaya	Local variety	-	Demonstration of ofHYV Red Lady	Cultivation techniques	-	Field Day	Planting material
21	Varietal	Okra	Local/ old varieties	-	Demonstration of ofHYV Azad Bhindi-1	Cultivation Techniques	-	Field Days	Seed
22	Varietal	Chilli	Local/ old varieties	-	Demonstration of ofHYV Kashi Gaurav	Cultivation techniques	-	Field Days	Seed
23	Varietal	Cauliflower	Local/ old varieties	-	Demonstration of of HYV Kashi Gobhi-25	Cultivation Techniques	-	Field Days	Seed
24	Varietal	Tomato	Local/ old varieties		Demonstration of of Kashi Aman	Cultivation techniques	-	Field Days	Seed

3.1 Technologies to be assessed and refined

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	2				1					3
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management										
Integrated Disease Management	1	1	1							3
Resource conservation technology					1					1
Small Scale income generating enterprises										
TOTAL	**3**	**1**	**1**		**2**					**7**

A.2. Abstract on the number of technologies refined in respect of crops - NIL

A.3. Abstract on the number of technologies assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Buffalo	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management						1		1
Value Addition								
Production and Management								
Feed and Fodder	1							1
Small Scale enterprises								
Others								
TOTAL	**1**					**1**		**2**

A.4. Abstract on the number of technologies refined in respect of home science/ enterprises

Thematic areas	Farm Women	Rural Youth	Unemployed Women	Goat	Piggery	Buffalo	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management	1							1
Feed and Fodder								
Small Scale enterprises	1							1
TOTAL	**2**							**2**

B. Details of On Farm Trial

OFT-1 Crop Production

Crop / Enterprise	Wheat	
Title of on farm trial	Varietal evaluation	
Problem diagnosed	Low productivity due to old variety	
Farmers' Practices	Farmer's practice (WH 147)	
Details of technologies selected for assessment/refinement	T_1	Farmer's practice (WH 147)
	T_2	Variety K 1317
Source of technology	CSAUA& T, Kanpur	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	Rs. 5000/-	
Critical input	Seed	
Performance indicators: (i) Technical (ii) Economic (iii) Social	Lodging, Yield (q/ha) Cost: Benefit ratio Farmers Acceptability	

OFT-2 Crop Production

Crop / Enterprise	Rice	
Title of on farm trial	Varietal evaluation	
Problem diagnosed	Low productivity due to old variety	
Farmers' Practices	Farmer's practice (Narendra 359)	
Details of technologies selected for assessment/refinement	T_1	**Farmer's practice (Narendra 359)**
	T_2	Pant Dhan 24
Source of technology	Pantnagar	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	Rs. 5000/-	
Critical input	Seed	
Performance indicators: (i) Technical (ii) Economic (iii) Social	Weed intensity, Yield (q/ha) Cost: Benefit ratio Farmers Acceptability	

OFT-3 Plant Protection

	Crop/Enter prizes	Sesame
1	Title of on farm trial	Assessment of IDM approach for stem rot and root rot disease in Sesame
2	Problem Diagnosed	Poor yield and quality due stem rot and root rot disease
3	Farmer situation	Irrigated
4.	Production system and thematic area	IDM
5.	Farmers practice	No seed treatment
6.	Details of technologies selected for assessment/refinement	**T1** - Farmer's practice (No seed treatment) **T2** -seed treatment with *Trichoderma viride* @4gm/kg + soil application of *T. viride*@2.5kg/ha enriched in 100kg of FYM at sowing+neem cake@250 kg/ha at the sowing time and spray of CoC 50% wp@2gm/litre
7.	Source of technology	C.SA.U.A. & T., Kanpur
8.	No. of farmers	10
9.	Plot size	0.4 ha
10	Critical input	*Trichoderma viride* , Copper oxychloride (CoC), neem cake
11.	Total cost	Rs. 4000/-
12.	Performance indicators Technical: Economic: Social:	 Infected plant in % Yield(q/ha) cost benefit ratio Acceptability

OFT-4 Plant Protection

	Crop/Enter prizes	Paddy
1	Title of on farm trial	Assessment of suitable chemical management of false smut disease in paddy
2	Problem Diagnosed	Poor yield and quality due to false smut disease
3	Farmer situation	Irrigated
4.	Production system and thematic area	Disease Management
5.	Farmers practice	Precaution measure not in practice
6.	Details of technologies selected for assessment/refinement	**T1** – Precaution measure not in practice **T2** – Spray of 0.1% Propincazole 25% EC fungicide at 50% ear initiation
7.	Source of technology	CSAUAT, Kanpur
8.	No. of farmers	10
9.	Plot size	0.4ha
10.	Critical input	Propincazole)
11.	Total cost	Rs. 2000/-
12.	Performance indicators Technical: Economic: Social:	No. of infected ear/m^2 Yield(q/ha) Cost benefit ratio Acceptability

OFT-5 Plant Protection

	Crop/Enter prizes	Lentil
1	Title of on farm trial	Assessment of IDM approach for wilt and root rot disease in Lentil
2	Problem Diagnosed	Poor yield and quality due to wilt and root rot disease
3	Farmer situation	Irrigated
4.	Production system and thematic area	IDM
5.	Farmers practice	Only chemical spray of mancozeb @1-2kg/ha
6.	Details of technologies selected for assessment/refinement	**T1** - Only chemical spray of mancozeb @1-2kg/ha **T2** -seed treatment with *Trichoderma viride* 1%WP@4gm/kg + soil application of *T. viride* 1%WP@2.5kg/ha enriched in 100kg of FYM at sowing+neem cake @250 kg/ha at the time of sowing and foliar spray of Vitavax 75% WP @ 2gm/litre at 35 days crop
7.	Source of technology	CSAUAT, Kanpur
8.	No. of farmers	10
9.	Plot size	0.4ha
10.	Critical input	*Trichoderma viride* , Vitavax, neem cake
11.	Total cost	Rs. 4000/-
12.	Performance indicators Technical: Economic: Social:	 Affected plants/m^2 Yield(q/ha) Cost benefit ratio Acceptability

OFT-6 Animal Husbandry

1.	Thematic Area	Animal Husbandry Feed management
2	Crop/Enter prises	Cattle
3	Title of on farm trial	Assessment of feeding by-pass protein for higher milk yield
4.	Problem Diagnosed	Low milk yield and profitability due to lack of protein intakes
5.	Farmers practice (T1)	No feeding of bypass protein in the ration
6.	Details of technologies selected for assessment/refinement (T2)	Feeding of bypass protein @ 100 gm each / animal / day after calving for four months. (Recommended practice)
7.	Source of technology	N.D.R.I., Karnal
8.	No. of farmers	20
9.	No. of Cattle	20
10.	Critical input	By-Pass Protein
11.	Total Cost	Rs. 7500
12.	Performance indicators Technical: Economic: Social:	➢ Milk production/buffalo ➢ C : B Ratio ➢ Acceptability of concentrate feeding

OFT-7Animal Husbandry

1.	Thematic Area	Disease Management
2	Crop/Enter prises	Buffalo
3	Title of on farm trial	Assessment of feeding Vitamin E + Selenium supplement for prevention of mastitis in dairy animals
4.	Problem Diagnosed	High incidence of mastitis in milch animals resulting in heavy loss in milk production and profitability
5.	Farmers practice (T1)	Poor prophylactic majors for mastitis, no practice of cleaning of udder and regular testing of subclinical mastitis and no use of drugs
6.	Details of technologies selected for assessment/refinement (T2)	Supplementation of 2 gram vitamin E + selenium per day per animal for 90 days during dry pried prior to calving for control of subclinical mastitis
7.	Source of technology	N.D.R.I., Karnal
8.	No. of farmers	20
9.	No. of Animals	20
10.	Critical input	Vitamin E and Selenium supplement
11.	Total Cost	Rs. 7500
12.	Performance indicators Technical: Economic: Social:	➢ Disease incidence and Milk production ➢ C : B Ratio ➢ Acceptability of vitamin and selenium supplement

OFT-8 (Home Science)

1	Crop/Enterprises	Wheat flour and Moringa Oleifera leaf powder
2	Title of on farm trial	Enrichment of wheat flour with moringa oleifera leaf powder to combat malnutrition
3	Problem Diagnosed	Malnutrition in children and women
4.	Farmer situation	T1- Wheat Flour (100%)
5.	Production system and thematic area	T2- Wheat Flour: Moringa Oleifera leaf powder (95:5) T3- Wheat Flour: Moringa Oleifera leaf powder (93:7) T4- Wheat Flour: Moringa Oleifera leaf powder (90:10)
6.	Farmers practice	University of Agricultural Science, Bangalore
7.	Details of technologies selected for assessment/refinement	3
8.	Source of technology	Wheat Flour, Moringa Oleifera leaf powder and Moringa Oleifera plant
9.	No. of farmers	10
10.	Critical input	Nutrient content Hemoglobin level before and after intervention Anthropometric measurement (height and weight) Sensory evaluation
11.	Total Cost	Rs.3000
12.	Performance indicators Technical: Economic:	Acceptability and Adoption of technology

	Social:	

OFT-9: Home Science

1	Crop/Enterprises	Protective clothing
2	Title of on farm trial	Protective cloths for farm women during harvesting, threshing and winnowing activities of chickpea.
3	Problem Diagnosed	Exposure to husk, dust, sun rays and face health problems like itching, irritation, cut and sores.
4.	Farmer situation	T1- Use old shirt to cover their body and pallu of their saree or dupatta to cover their head and face.
5.	Production system and thematic area	T2- Use of protective clothes (apron, mask, gloves, plain glasses, and shoes)
6.	Farmers practice	GBPUAT, Pantnagar
7.	Details of technologies selected for assessment/refinement	3
8.	Source of technology	apron, mask, hand gloves, plain glasses, and shoes
9.	No. of farmers	10
10.	Critical input	Suitability, Comfortability and work efficiency
11.	Total cost	Rs.3000
12.	Performance indicators Technical: Economic: Social:	Adoption of technology

OFT-10 Agriculture Extension

Thematic Area	Information of Technology
Problem diagnosed	Lack of Information about agricultural Technologies at rural level
Title of OFT	Assessment of Agricultural Library for updating the knowledge at village level
Farmers Practice	Farmers use traditional information sources
Technology to be demonstrated	Krishak Jagat, Kheti, Krishak doot, Krishak Bharati,Krishi chayanika, Krishak Vandana
Source of Technology	RVSKV, Gwalior
Year of Technology	2018
NO. of trail/Rep.	05
Critical Input	Agricultural Magazines
Total cost	4000

OFT-11 Horticulture

1.	Crop/Enterprise	Okra (Bhindi)	
2.	Title of on farm trial	To assess High Yielding variety with proper spacing (60 cm X 45 cm)	
3.	Problem diagnosed	Poor yield and quality of okra fruits due to lack of knowledge about proper spacing (60cmX45cm)and HYV	
4.	Farmers' Practices	Use of old and low productive varieties without proper spacing	
5.	Details of technologies selected for assessment/refinement	**T_1**	Farmers Practices (old and low productive varieties without proper spacing)
		T_2	Kashi Kranti with proper spacing of 60 cmX 45 cm
6.	Source of technology	IIVR, Varanasi	
7.	Plot size	500 m^2	
8,	No. of farmers	05	
9.	Total cost	Rs. 3000/-	
11.	Critical input	Seed	
12.	Performance indicators: (i) Technical (ii) Economic (iii) Social	No. of fruits/plant, yield/ha. Cost: benefit ratio Farmers Acceptability	

OFT- 12 Horticulture

Crop/Enterprise	Tomato	
Title of on farm trial	To assay the effect of crop residue mulch on tomato production	
Problem diagnosed	Poor yield and quality of tomato due improper geometry and flood irrigation resulting in deteriorate yield and quality.	
Farmers' Practices	Planting of tomato without mulching	
Details of technologies selected for assessment/refinement	**T_1**	Farmers Practices (no mulching)
	T_2	Use of crop residue mulch
Source of technology	CSAUA&T, Kanpur	
Plot size	500 m^2	
No. of farmers	05	
Total cost	Rs. 3000/-	
Critical input	Seedlings/Seed	
Performance indicators: Technical: Economic: Social :	No. of fruits/plant, yield/ha. Cost: benefit ratio Farmers Acceptability	

3.2 Front Line Demonstrations

A. Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demon.	Parameters identified
1	Wheat	K 1317	Varietal	Variety	Seed	Rabi 2023	10	25	Growth and Yield (q/ha)
2	Paddy	Pant Dhan 24	Varietal	Variety	Seed	Kharif 2023	10	25	No. of affected fruit /plant Yield (q/ha.)
3	Paddy	Pant-24	IPM	Foiar spray of Azadirechtin (1500ppm)@5ml/l, Fipronil@7.5kg/acre, Profenophas 50%EC@2ml/l spray at ETL	Azadirachtin, Profenophos	Kharif 2023	05	12	Dead heart plants in percent, Yield (q/ha.)
4	Chickpea	JG-14	IPM	Bird percher@50/ha, nipping process before flowering, Pheromone traps@ 20/ha for monitoring of pod borer insect, spray of Azadirachtin(1500ppm)@5ml/l, spray of Indoxcarb14.5SL@500ml/ha at podding time	Bird percher Pheromone traps Azadirachtin Indexcarb	Rabi-2023	05	12	No. of affected plant/m^2 Yield(q/ha.)
5	Vegetables and fruits	-	Household food security by kitchen gardening and nutrition gardening	Kitchen Gardening	Kitchen Gardening Kit	Kharif- 2023	1.0	40	Livelihood and nutritional security
6	Vegetables and fruits	-	Household food security by kitchen gardening and nutrition gardening	Kitchen Gardening	Kitchen Gardening Kit	Rabi 2023	1.0	40	Livelihood and nutritional security
7	Drudgery reduction	-	Revolving stool for drudgery reduction	Drudgery Reduction	Revolving Stool	Rabi 2023	-	10	Drudgery reduction
8	Tomato	Demonstration of of Kashi Aman	Varietal Evaluation	HYV	Seed	Rabi 2021-22	2	10	Yield, C:B ratio
9	Chilli	Demonstration of ofHYV Kashi Gaurav	Varietal Evaluation	HYV	Seed	Rabi 2021-22	2	10	Yield, C:B ratio
10	Cauliflower	Demonstration of ofHYV Kashi Gobhi-25	Varietal Evaluation	HYV	Seed	Rabi 2021-22	2	10	Yield, C:B ratio
11	Papaya	Demonstration of ofHYV Red Lady	Varietal Evaluation	HYV	HYV	Kharif 2021-22	2	10	Yield, C:B ratio
12	Okra	Demonstration of ofHYV Azad Bhindi-1	Varietal Evaluation	HYV	HYV	Kharif 2021-22	2	10	Yield, C:B ratio
							42	**214**	

Sponsored Demonstration

Sl. No.	Crop	Area (ha)	No. of farmers
1	Sesamum	10	25
2	Pigeonpea	10	25
3	Mustard	10	25
4	Linseed	10	25
5	Chickpea	20	50
6	Lentil	10	25

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	24	Feb and Oct	450
2	Farmers Training	15	Jun and Nov	300
3	Media coverage	30	April and Oct	Mass
4	Training for extension functionaries	2	Oct and April	40

C. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators

(ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / indicators
Dairy	Murrah/Non-descript buffaloes	15	30	Demonstration of "Impregnated Nano fibers" for induction of Oestrus in repeat breeding Buffaloes	Conception rate
Dairy	Murrah/Non-descript buffaloes	15	30	Demonstration of "Antibiotic Cream and Spray" for wound treatment in Ruminant	Milk yield and disease incidence

3.3 Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	20	-	20	5	-	5	25

Resource Conservation Technologies	2	23	5	38	10	2	12	50
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management	1	20	-	20	5	-	5	25
Seed production								
Nursery management								
Integrated Crop Management	1	20	-	20	5	-	5	25
Fodder production								
Production of organic inputs								
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	3	60	-	60	15	-	15	75
Off-season vegetables	1	20	-	20	5	-	5	25
Nursery raising	1	20	-	20	5	-	5	25
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs								
Management of Problematic soils								

Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
IV Livestock Production and Management								
Dairy Management	3	45	15	60	9	6	15	75
Poultry Management	1	15	5	20	3	2	5	25
Piggery Management								
Rabbit Management/goat	1	15	5	20	3	2	5	25
Disease Management	1	15	5	20	3	2	5	25
Feed management	1	15	5	20	3	2	5	25
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	1	-	30	30	-	25	25	55
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	2	-	40	40	-	30	30	70
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts	1	-	30	30	-	25	25	55
Women and child care								
VI Agril. Engineering								
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								
VII Plant Protection								
Integrated Pest Management	02	36	01	37	05	-	5	42
Integrated Disease Management	03	59	-	59	06	-	06	65
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
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								
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								
X Capacity Building and Group Dynamics								
Leadership development								
Group dynamics	1	15	5	20	3	2	5	25
Formation and Management of SHGs	1	15	5	20	3	2	5	25
Mobilization of social capital	1	15	5	20	3	2	5	25
Entrepreneurial development of farmers/youths	1	15	5	20	3	2	5	25
WTO and IPR issues	1	15	5	20	3	2	5	25
Other (ICT)	2	30	10	40	6	4	10	50
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII Others (Pl. Specify)								
TOTAL	**33**	**488**	**176**	**674**	**103**	**110**	**213**	**887**
(B) RURAL YOUTH								
Mushroom Production	1	18	-	18	02	-	02	20
Bee-keeping								
Integrated farming								
Seed production	1	15	5	20	3	2	5	25
Production of organic inputs	1	20	-	20	5	-	5	25
Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops	1	10	-	10	5	-	5	15
Training and pruning of orchards								
Value addition	1	10	10	20	5	10	15	35
Production of quality animal products								
Dairying	1	20	-	20	5	-	5	25
Sheep and goat rearing	1	10	-	10	5	-	5	15
Quail farming								
Piggery								
Rabbit farming								

Poultry production	1	20	-	20	5	-	5	25
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology	1	10	-	10	5	-	5	15
Tailoring and Stitching	1	-	10	10	-	10	10	20
Rural Crafts								
TOTAL	**10**	**133**	**25**	**158**	**40**	**22**	**62**	**220**
(C) Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management	1	18	-	18	2	-	2	20
Integrated Nutrient management								
Rejuvenation of old orchards	1	10	-	10	5	-	5	15
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers	1	20	-	20	5	-	5	25
Capacity building for ICT application	1	20	-	20	5	-	5	25
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals	1	15	-	15	5	-	5	20
Livestock feed and fodder production								
Household food security	1	10	-	10	5	-	5	15
Women and Child care								
Low cost and nutrient efficient diet designing	1	-	10	10	-	5	5	15
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Crop Residue Management)	1	15	-	15	5	-	5	20
Any other (Organic Farming : Principle and Opportunity)	1	15	-	15	5	-	5	20
Any other (Use of Agro-Chemicals)	1	18	-	18	2	-	2	20
TOTAL	**10**	**141**	**10**	**151**	**39**	**5**	**44**	**195**
G. Total	**53**	**762**	**211**	**983**	**182**	**137**	**319**	**1302**

B) OFF Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	20	-	20	5	-	5	25
Resource Conservation Technologies	2	40	-	40	10	-	10	50
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management	1	20	-	20	5	-	5	25
Seed production								
Nursery management	1	20	-	20	5	-	5	25
Integrated Crop Management	1	20	-	20	5	-	5	25
Fodder production	1	20	-	20	5	-	5	25
Production of organic inputs	1	20	-	20	5	-	5	25
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	2	40	-	40	10	-	10	50
Off-season vegetables	1	20	-	20	5	-	5	25
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)	1	20	-	20	5	-	5	25
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit	2	40	-	40	10	-	10	50
Management of young plants/orchards	1	20	-	20	5	-	5	25
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology	2	40	-	40	10	-	10	50

Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
IV Livestock Production and Management								
Dairy Management	1	15	5	20	3	2	5	25
Poultry Management								
Piggery Management								
Rabbit Management /goat	1	15	5	20	3	2	5	25
Disease Management	3	45	15	60	9	6	15	75
Feed management	1	15	5	20	3	2	5	25
Production of quality animal products	1	15	5	20	3	2	5	25
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	4		65	65		42	42	107
Design and development of low/minimum cost diet	1		15	15		10	10	25
Designing and development for high nutrient efficiency diet	1		15	15		10	10	25
Minimization of nutrient loss in processing	1		15	15		10	10	25
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition								
Income generation activities for empowerment of rural Women	1		15	15		10	10	25
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
VI Agril. Engineering								
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								

VII Plant Protection								
Integrated Pest Management	6	112	3	115	14	-	14	129
Integrated Disease Management	3	60	2	62	4	-	4	66
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
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								
IX Production of Inputs at site								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
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								
X Capacity Building and Group Dynamics								
Leadership development								
Group dynamics	1	15	5	20	3	2	5	25
Formation and Management of SHGs(HS)								
Mobilization of social capital								
Entrepreneurial development of farmers/youths (Agro.)	2	30	10	40	6	4	10	50
WTO and IPR issues								
Others (ICT)	2	30	10	40	6	4	10	50
XI Agro-forestry								
Production technologies								
Nursery management								

Integrated Farming Systems (Agro)								
XII Others (Pl. Specify)								
TOTAL	**46**	**692**	**190**	**882**	**139**	**106**	**245**	**1127**
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs								
Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition								
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
TOTAL								
(C) Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								

Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Productivity enhancement of milch animals)								
TOTAL								
G. Total	**46**	**692**	**190**	**882**	**139**	**106**	**245**	**1127**

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	Grand Total
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	2	40	0	40	10	0	10	50
Resource Conservation Technologies	4	63	5	78	20	2	22	100
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management	2	40	0	40	10	0	10	50
Seed production								
Nursery management	1	20	0	20	5	0	5	25
Integrated Crop Management	2	40	0	40	10	0	10	50
Fodder production	1	20	0	20	5	0	5	25
Production of organic inputs	1	20	0	20	5	0	5	25
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	5	100	0	100	25	0	25	125
Off-season vegetables	2	40	0	40	10	0	10	50
Nursery raising	1	20	0	20	5	0	5	25
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)	1	20	0	20	5	0	5	25
b) Fruits								
Training and Pruning								
Layout and Management of								

Orchards								
Cultivation of Fruit	2	40	0	40	10	0	10	50
Management of young plants/orchards	1	20	0	20	5	0	5	25
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology	2	40	0	40	10	0	10	50
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
IV Livestock Production and Management								
Dairy Management	4	60	20	80	12	8	20	100
Poultry Management	1	15	5	20	3	2	5	25
Piggery Management	0	0	0	0	0	0	0	0
Rabbit Management /goat	2	30	10	40	6	4	10	50

Disease Management	4	60	20	80	12	8	20	100
Feed management	2	30	10	40	6	4	10	50
Production of quality animal products	1	15	5	20	3	2	5	25
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	5	0	95	95	0	67	67	162
Design and development of low/minimum cost diet	1	0	15	15	0	10	10	25
Designing and development for high nutrient efficiency diet	1	0	15	15	0	10	10	25
Minimization of nutrient loss in processing	1	0	15	15	0	10	10	25
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	2	0	40	40	0	30	30	70
Income generation activities for empowerment of rural Women	1	0	15	15	0	10	10	25
Location specific drudgery reduction technologies								
Rural Crafts	1	0	30	30	0	25	25	55
Women and child care	0	0	0	0	0	0	0	0
VI Agril. Engineering								
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								
VII Plant Protection								
Integrated Pest Management	8	148	4	152	19	0	19	171
Integrated Disease Management	6	119	2	121	10	0	10	131
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
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								
IX Production of Inputs at site								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
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								
X Capacity Building and Group Dynamics								
Leadership development								
Group dynamics	2	30	10	40	6	4	10	50
Formation and Management of SHGs(HS)	1	15	5	20	3	2	5	25
Mobilization of social capital	1	15	5	20	3	2	5	25
Entrepreneurial development of farmers/youths (Agro.)	3	45	15	60	9	6	15	75
WTO and IPR issues	1	15	5	20	3	2	5	25
Others (ICT)	4	60	20	80	12	8	20	100
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
XII Others (Pl. Specify)								
TOTAL	**79**	**1180**	**366**	**1556**	**242**	**216**	**458**	**2014**
(B) RURAL YOUTH								
Mushroom Production	1	18	-	18	02	-	02	20
Bee-keeping								
Integrated farming								
Seed production	1	15	5	20	3	2	5	25
Production of organic inputs	1	20	-	20	5	-	5	25
Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm								

machinery and implements								
Nursery Management of Horticulture crops	1	10	-	10	5	-	5	15
Training and pruning of orchards								
Value addition	1	10	10	20	5	10	15	35
Production of quality animal products								
Dairying	1	20	-	20	5	-	5	25
Sheep and goat rearing	1	10	-	10	5	-	5	15
Quail farming								
Piggery								
Rabbit farming								
Poultry production	1	20	-	20	5	-	5	25
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology	1	10	-	10	5	-	5	15
Tailoring and Stitching	1	-	10	10	-	10	10	20
Rural Crafts								
TOTAL	**10**	**133**	**25**	**158**	**40**	**22**	**62**	**220**
(C) Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management	1	18	-	18	2	-	2	20
Integrated Nutrient management								
Rejuvenation of old orchards	1	10	-	10	5	-	5	15
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers	1	20	-	20	5	-	5	25
Capacity building for ICT application	1	20	-	20	5	-	5	25
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals	1	15	-	15	5	-	5	20
Livestock feed and fodder production								
Household food security	1	10	-	10	5	-	5	15
Women and Child care								
Low cost and nutrient efficient diet designing	1	-	10	10	-	5	5	15
Production and use of organic inputs								
Gender mainstreaming through SHGs								

Any other (Crop Residue Management)	1	15	-	15	5	-	5	20
Any other (Organic Farming : Principle and Opportunity)	1	15	-	15	5	-	5	20
Any other (Use of Agro-Chemicals)	1	18	-	18	2	-	2	20
TOTAL	**10**	**141**	**10**	**151**	**39**	**5**	**44**	**195**
Grand Total (All trainings)	**99**	**1454**	**401**	**1865**	**321**	**243**	**564**	**2429**

Details of training programmes attached in Annexure -I

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	30	450	170	620	40	-	40	690	250	940
Kisan Mela	02	1500	500	2000	50	20	70	1550	520	2070
Kisan Gosthi	12	1400	50	1450	50	-	50	1450	50	1500
Exhibition	06	840	60	900	20	-	20	560	60	620
Film Show	5	850	200	1050	10	-	10	460	100	560
Farmers Seminar	01	60	15	75	08	02	10	68	17	85
Workshop	02	60	15	75	08	02	10	68	17	85
Group meetings	10	200	150	350	5	-	5	25	6	31
Lectures delivered as resource persons	12									Mass
Newspaper coverage	100									Mass
Radio talks	02									Mass
TV talks	01									Mass
Popular articles	6									Mass
Extension Literature	4									Mass
Advisory Services										
Scientific visit to farmers field	24	700	150	850	100	50	150	800	200	1000
Farmers visit to KVK	20	700	150	850	100	50	150	800	200	1000
Diagnostic visits	20	170	70	240	10	-	10	180	70	250
Exposure visits	01	20	-	20	1	-	1	21	-	21
Ex-trainees Sammelan	01	20	-	20	1	-	1	21	-	21
Soil health Camp	04	150	-	150	5	01	06	155	01	156
Animal Health Camp	02	150	50	200	10	-	10	160	50	210
Agri mobile clinic										
Farm Science Club Conveners meet										To be form
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										To be form
Celebration of important days (specify)	08	1000	150	1150	50	10	60	1050	160	1210
Pre Kharif workshop	01	150	-	150	10	-	10	160	-	160
Pre Rabi workshop	01	150	-	150	10	-	10	160	-	160
PPVFRA workshop										
Any Other (Specify) live-telecast programme, Bundeli krishi Chaupal, Jaivik corridor programme	05	325	50	375	25	-	25	350	50	400
Total	**280**	**8895**	**1780**	**10675**	**513**	**135**	**648**	**8728**	**1751**	**10479**

3.5 Target for Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)	Distributed to the farmers (Nos.)
CEREALS	Wheat	DBW-107	60	
	Paddy	Pant Dhan- 24	100	
Pulses	Lentil	IPL-316	40	-
	Total		**200**	

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)	Distributed to the farmers (Nos.)
1	Chilli, Tomato, Brinjal, Cauliflower	Kashi Uttam, Kashi Aman, Kashi Anupam, Golden Acre	20000	-
2	Papaya,	Farm selection-1	100	-
	Total		**20100**	**-**

3.6 Literature to be Developed/Published

(A) KVK News Letter (Quarterly) : 02

Date of start : January 2018

Number of copies to be published : 200

(B) Literature developed/published

S.No.	Topic	No.	Name of Journal/literature
1	Research paper by each scientist	01	
2	Technical reports	08	
3	News letters	02	
4	Training manual all discipline	03	
5	Popular article	08	
6	Extension literature	08	
	Total	**30**	

(C) Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Android App	All aspects of Agriculture	1

3.7. Success stories/Case studies identified for development as a case. (5 by each KVK)

3.8 Indicate the specific training need analysis tools/methodology followed for:

(a) Practicing Farmers-Expert Judgment and Survey

(b) Rural Youth- Need based

(c) In-service personnel- Expert Judgment and Survey

3.9 Indicate the methodology for identifying OFTs/FLDs

For OFT:

1. Field level observations
2. Farmer group discussions

For FLD:

1. New variety/technology
2. Results of OFT
3. Existing cropping system

3.10 Field activities

i. Name of villages identified/adopted with block name (from which year) – 5 (2021)

ii. No. of farm families selected per village : 50

iii. No. of survey/PRA conducted : 2

iv. No. of technologies taken to the adopted villages :6

v. Name of the technologies found suitable by the farmers of the adopted villages: 4

vi. Impact (production, income, employment, area/technological– horizontal/vertical)

vii. Constraints if any in the continued application of these improved technologies

3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab:

1. Year of establishment : Established

2. List of equipments purchase with amount

Sl. No.	Name of the equipment	Quantity	Cost (Rs in Lacs)
1	Mrida Prikshak	02	1.72

3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	300	300	12	--
Water				
Plant				
Total	300	1200	**12**	--

4. LINKAGES

4.1 Functional linkage with different organizations

S.No.	Name of organization	Nature of Linkage
1.	NGO	Participating in meeting, conducting training
2.	Department of Agriculture	Participating in meeting, conducting training, joint implementation
3.	ATMA	Participating in meeting, conducting training, joint implementation
4.	Deptt. of Horticulture	Participating in meeting, conducting training, joint implementation
5.	NHM	Participating in meeting, conducting training, joint implementation
6.	Fisheries	Participating in meeting
7.	DRDA	Participating in meeting and joint implementation specially SHGs formation
8.	CSISA	Landscape Diagnostic Surveys, Crop cutting of Rice and Wheat cropping systems
9.	IWMI	Farmers training, collecting data of climate parameters, analysis and making strategies for climate smart agriculture

4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

S. No.	Programme	Nature of linkage
1	Training	As a expert
2	Meeting of Governing board	As a member

4.3 Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1	Training	As a expert
2	Meeting of Governing board	As a member

5. Utilization of hostel facilities –not available

6. Convergence with departments :

7.1. Details of the programmes being implemented by your KVK in partnership with other institution

S. No.	Name of Programme	Main Institution (IARI, DBT, DST, UPCAR, etc.)	Duration	Budget (in lakh)
1	Landscape Diagnostic Surveys	**CSISA**	**1 Year**	**1.6**
2	Scaling out Climate-Smart Agriculture for Resilient Farming in India	**IWMI**	**1Year**	**2.0**

7.2. Brief achievements of above collaborative programmes

S. No.	Name of Programme	Salient achievement	Impact of the programme
1	Landscape Diagnostic Surveys	**Survey work is near to complete.**	**It will help to formulate strategies for enhancing productivity in Rice- Wheat cropping system**
2	Scaling out Climate-Smart Agriculture for Resilient Farming in India	**Data collection and 2 days workshop has been conducted**	**It will help to formulate strategies for enhancing productivity under changing climate**

8. Achievements (Both Technical and physical) of sponsored programmes (As applicable to your KVK) during the reporting period (2019-20)

S. No.	Name of Programme	Detailed Technical Achievements	Physical (infrastructural achievement)

1	**TSP Project**		
2	**ARYA Project**		
3	**CFLD-NFSM Project**		
	i. Kharif season	Popularization of new variety	
	ii. Rabi season		
	iii. Summer season		
4	**CSISA Project**	**Survey work is near to complete**	-
5	**NICRA Project**		
6	**Soil Health Card**		
7	**PMFBY**		
8	**PPVFRA**		
9	**IWMI project**	**Data collection and 2 days workshop has been conducted**	-
	Total		

9. Feedback of the farmers about the technologies demonstrated and assessed:

10. Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:

Annexure - I

Training Programme-2023

i) Farmers & Farm women (off /on Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
Feb-23	PF	Production and methods of use of FYM.	1	20	-	20	5	-	5	25
Mar-23	PF	Natural farming for resources conservation technology.	1	13	5	18	5	2	7	25
April-23	PF	Weed and nursery management in Paddy.	1	20	-	20	5	-	5	25
May-23	PF	Time and Importance of Summer ploughing and bunding for soil and water conservation.	1	20	-	20	5	-	5	25
June-23	PF	Importance of soil health and its role in productivity under natural farming.	1	20	-	20	5	-	5	25
July-23	PF	Transplanting and nutrient management in rice.	1	20	-	20	5	-	5	25
Aug-23	PF	Integrated nutrient management in Kharif oilseed and pulses.	1	20	-	20	5	-	5	25
Sept-23	PF	Importance of Sprinkler irrigation in crop production.	1	20	-	20	5	-	5	25
Oct-23	PF	Weed and nutrients management in Rabi pulses.	1	20	-	20	5	-	5	25
Oct-23	PF	Weed and nutrients management in wheat crop.	1	20	-	20	5	-	5	25
Nov-23	PF	Green fodder calendar.	1	20	-	20	5	-	5	25
Nov-23	PF	Crop residue management in paddy fields.	1	20	-	20	5	-	5	25
Dec-23	PF	Water management in wheat crop.	1	20	-	20	5	-	5	25
Plant protection										
Jan-23	PF	Management of pod fly in Fieldpea	1	20	-	20	5	-	5	25
Feb-23	PF	Management of pod borer insect in chickpea	1	20	-	20	5	-	5	25
Mar-23	PF	Management of insect and diseases in wheat	1	13	5	18	5	2	7	25
April-23	PF	Preparation of Neem based insecticide and its importance	1	20	-	20	5	-	5	25
May -23	PF	Management of yellow mosaic disease in pulse crops	1	20	-	20	5	-	5	25
June-23	PF	IPM practices in cucurbits crops								
July -23	PF	Management of stem and root rot diseases in sesame	1	20	-	20	5	-	5	25
July-23	PF	Management of Pest and diseases in Kharif Pulses and oilseed crop	1	15	5	20	5	-	5	25
Aug-23	PF	Management of stem borer and leaf folder insect in Paddy	1	20	-	20	5	-	5	25

Aug-23	PF	Management of false smut disease in Paddy	1	20	-	20	5	-	5	25
Sep- 23	PF	Management of Pod borer insect in Pigeonpea	1	20	-	20	5	-	5	25
Oct-23	PF	Important role of seed treatment in Rabi pulses crops	1	20	-	20	5	-	5	25
Nov-23	PF	Management of shoot and fruit borer in Brinjal	1	20	-	20	5	-	5	25
Dec-23	PF	Management of aphid insect in Mustard	1	20	-	20	5	-	5	25
Animal Husbandry										
Jan-23	PF	Scientific Management of Newly born Kids in Goats	1	15	5	20	3	2	5	25
Feb-23	PF	Formulation of Total Mixed Ration for Livestock	1	15	5	20	3	2	5	25
Mar-23	PF	Scientific Management of Milch Animals	1	15	5	20	3	2	5	25
Apr-23	PF	Importance of Summer Management in Livestock	1	15	5	20	3	2	5	25
May-23	PF	Feeding practices for livestock during summer	1	15	5	20	3	2	5	25
June-23	PF	Importance of vaccination in livestock	1	15	5	20	3	2	5	25
July-23	PF	Control and Prevention of Mastitis in Farm Animals	1	15	5	20	3	2	5	25
July-23	PF	Clean Milk Production	1	15	5	20	3	2	5	25
Aug-23	PF	Important Production Diseases of Livestock	1	15	5	20	3	2	5	25
Aug-23	PF	Goat Farming : ATM for the farmers	1	15	5	20	3	2	5	25
Sept-23	PF	Control of Communicable diseases in livestock	1	15	5	20	3	2	5	25
Oct-23	PF	Management of livestock from Cold Shock	1	15	5	20	3	2	5	25
Nov-23	PF	Management practices in goat rearing	1	15	5	20	3	2	5	25
Dec-23	PF	Scientific Poultry Farming	1	15	5	20	3	2	5	25
Home Science										
Jan-23	PF	Kitchen garden for nutritional food security of rural families	1	-	20	20	-	15	15	35
Feb- 23	PF	Demonstration of drudgery reduction tools for farm women	1	-	15	15	-	10	10	25
Mar- 23	PF	Awareness programme for Adolescent girls on health and hygiene	1	-	15	15	-	10	10	25
Apr- 23	PF	Preparation of recipes by using coarse grain and pulses for pregnant and lactating women	1	-	15	15	-	7	7	22
May-23	PF	Establishment of vermicompost Unit for the best utilization of household waste and income generation	3	-	20	20	-	15	15	35
Jun- 23	PF	Development of Protein and energy rich diet for school going children	3	-	10	10	-	10	10	20
Jul-23	PF	Household food security of malnourished children with nutrition thali	1	-	15	15	-	10	10	25
Aug-23	PF	Importance of drudgery reducing farm tools for women farmer	1	-	15	15	-	10	10	25
Sep-23	PF	Awareness programme for women on health and hygiene	1	-	15	15	-	10	10	25
Oct- 23	PF	Preparation of nutritious foods from green leafy vegetables for children	1	-	30	30	-	25	25	55
Nov- 23	PF	Awareness on Drudgery reducing farm implements for enhancing work efficiency	1	-	30	30	-	25	25	55
Dec-23	PF	Preparation of iron rich diet for pregnant women and adolescent girls.	1	-	10	10	-	10	10	20
Agriculture Extension										

Jan-23	PF	Agricultural Market Problems and Solutions	1	15	5	20	3	2	5	25
Feb-23	PF	Kisan Sarthi app- Awareness and Utility	1	15	5	20	3	2	5	25
Mar- 23	PF	Establishment and Benefit of Custom hiring	1	15	5	20	3	2	5	25
April 23	PF	Self Help Group - Management and Problem Solving	1	15	5	20	3	2	5	25
May, 23	PF	Different avenues of Agri-entrepreurship development in Bundelkhand region	1	15	5	20	3	2	5	25
June, 23	PF	Entreprenurship development through quality seed production under Seed hub scheme	1	15	5	20	3	2	5	25
July-23	PF	Climate Change - Understanding and Risk Management	1	15	5	20	3	2	5	25
Aug-23	PF	Importance of social media and Print media in Transfer of agriculture technology	1	15	5	20	3	2	5	25
Sep- 23	PF	Awareness of govt. schemes related to agri-preurship	1	15	5	20	3	2	5	25
Oct-23	PF	Farmers producer Organization: Need and importance	1	15	5	20	3	2	5	25
Nov-23	PF	Use of ICTs tools in agriculture	1	15	5	20	3	2	5	25
Dec-23	PF	Group Management Techniques	1	15	5	20	3	2	5	25
Horticulture										
Jan-23	PF	Crop regulation in guava through nutrition and irrigation management	1	-	15	15	-	10	10	25
Feb-23	PF	Improved cultivation techniques of Brinjal	1	-	15	15	-	10	10	25
Mar-23	PF	Production technology of ornamental crops	1	-	15	15	-	10	10	25
April-23	PF	Production Technology of seed spices in Bundelkhand region	1	-	15	15	-	10	10	25
May -23	PF	Cultivation techniques of rainy season vegetables	1	-	15	15	-	10	10	25
June-23	PF	Improved cultivation techniques of Kharif Onion	1	-	15	15	-	10	10	25
July-23	PF	Pruning and training management in Guava	1	-	15	15	-	10	10	25
July-23	PF	Importance of organic fertilizers in fruit production	1	-	15	15	-	10	10	25
Aug-23	PF	Care and Management of newly established orchard	1	-	15	15	-	10	10	25
Sep- 23	PF	Protected cultivation of vegetable	1	-	15	15	-	10	10	25
Oct-23	PF	Nursery management of vegetable crops through Low Tunnel Polyhouse	1	-	15	15	-	10	10	25
Nov-23	PF	Cultivation of papaya: a profitable venture	1	-	15	15	-	10	10	25
Nov-23	PF	Organic cultivation of vegetables	1	-	15	15	-	10	10	25
Dec-23	PF	Early cultivation of vegetable pea for higher remuneration	1	-	15	15	-	10	10	25

Annexure - II

ii) Vocational training programmes for Rural Youth

Crop/ Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.T
					M	F	T	M	F	T	
Crop Production											
Pea	Seed Production	Seed Production of Pea for income generation	Oct 23	4	15	5	20	3	2	5	25
Vermicompost	Organic input	Vermicompost for employment	July 23	4	20	-	20	5	-	5	25
Plant Protection											
Bio pesticide	Income generate	Preparation of bio pesticide for income generation	Sept.-23	03	11	-	11	04	-	04	15
Mushroom	Income generate	Income generation through mushroom cultivation	Dec.-23	03	18	-	18	02	-	02	20
Animal Husbandry											
Poultry	Income generate	Commercial Poultry Farming	Aug-23	3	20	-	20	5	-	5	25
Animals	Income generate	Commercial Dairy farming	Oct-23	3	20	-	20	5	-	5	25
Home Science											
Value Addition	Nutritional Security	Self Employment through Value added product	Jan- 23	3	-	10	10	-	10	10	20
Tailoring and Stitching	Income generation	Employment through tailoring and stitching	Jun- 23	5	-	10	10	-	10	10	20
Horticulture											
Vegetable		Growing vegetable nursery: a source of income	Oct -23	4	10	-	10	5	-	5	15
Vegetable		Grading and packaging of vegetable crops for income generation	Dec- 23	4	10	-	10	5	-	5	15

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
On Campus										
Oct, 2023	In-Service	Crop Residue Management	02	15	-	15	5	-	5	20
May. 2023	In-Service	Organic Farming : Principle and Opportunity	02	15	-	15	5	-	5	20
Plant protection										
Oct.23	In-Service	Precaution for safe use of Agro-chemicals	02	18	-	18	02	-	02	20
Nov.23	In-Service	Integrated insect and disease management of Rabi pulses and oilseed	02	18	-	18	02	-	02	20
Animal Husbandry										
Dec-23	In-Service	Advances in dairy production and management	3	15	-	15	5	-	5	20
Home Science										
Aug 23	In-Service	Low – cost nutrient rich diet for children and women.	1	-	10	10	-	5	5	15
Agriculture Extension										
July-23	In-Service	Use and Importance of ICT in agriculture	01	20	-	20	05	-	05	25
Octo-23	In-Service	Risk Management in Agriculture -Methods and approach	01	20	-	20	05	-	05	25
Horticulture										
July -23	In-service	Rejuvenation methods for horticultural crops	2	-	10	10	-	5	5	15
Oct -23	In-service	Fundamentals of kitchen gardening	2	-	10	10	-	5	5	15

iv) Sponsored programme: As per requirement of sponsoring agencies.

As per need

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training progdramme											
			Total								
b) Sponsored research programme											
			Total								
c) Any special programmes											
			Total								

==========++++++++++++++++++==========