

ANNUAL REPORT (JANUARY – DECEMBER 2023)

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	54	745	354	1089
Rural youths	9	82	62	144
Extension functionaries	24	141	120	261
Sponsored Training	06	300	40	340
Vocational Training	01	18	02	20
Total	94	1286	578	1854

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	50	20.0	--
Pulses	75	30.0	--
Cereals	5	4.0	--
Other Crops	50	16.0	--
Fruits	15	6.0	--
Total	185	76.00	--
Livestock & Fisheries	10	4.00	10
Other enterprise- H.Sc	25	2.00	25
Total	35	6.00	35
Grand Total	220	82.00	35

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	--	--	--
Livestock	1	1	10
Other enterprises	4	4	20
Total	5	5	30
Technology Refined			
Crops	--	--	--
Livestock	--	--	--
Various enterprises	--	--	--
Total	--	--	--
Grand Total	5	5	30

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	738	9616
Other extension activities	242	2860
Total	980	12476

4. Mobile Advisory Services

Message Type	Type of Messages						
	Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Text only	--	--	--	--	--	--	--
Voice only	650	180	50	20	100	92	1092
Voice & Text both	--	--	--	--	--	--	--
Total Messages	650	180	50	20	100	92	1092
Total farmers Benefitted	650	180	50	20	100	92	1092

5. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	--	--
Planting material (No.)	12000	--
Bio-Products (kg)	2600	12475.00
Honey Processing (Kg)	295	4425.00

6. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil- Macro/Micro Nutrient	203	30450.00
Soil Health Card Issued	203	
Total – Soil Health Card		

7. HRD and Publications

Sr. o.	Category	Number	No. of participants
1	Workshops	03	150
2	Conferences	--	--
3	Meetings	05	250
4	Trainings for KVK officials	14	--
5	Visits of KVK officials	02	--
6	Book published	--	-
7	Training Manual	--	-
8	Book chapters	--	-
9	Research papers	--	-
10	Lead papers	--	-
11	Seminar papers	--	-
12	Extension folder/ Tech Card	01	-
13	Proceedings	--	-
14	Award & recognition	--	-
15	On going research projects	01	-

DETAIL REPORT OF ANNUAL PROGRESS REPORT

(January 2023 to December 2023)

1. General Information about the KVK

1.1. Name and address of the KVK

Address	Telephone		E-Mail
	Office	FAX	
SWAMI KALYAN DEV KRISHI VIGYAN KENDRA, BAGHRA, DISTT.- MUZAFFARNAGAR (U.P.) PIN- 251306	9411263753		kvkmuzaffarnagar@gmail.com

1.2. Name and address of the host organization

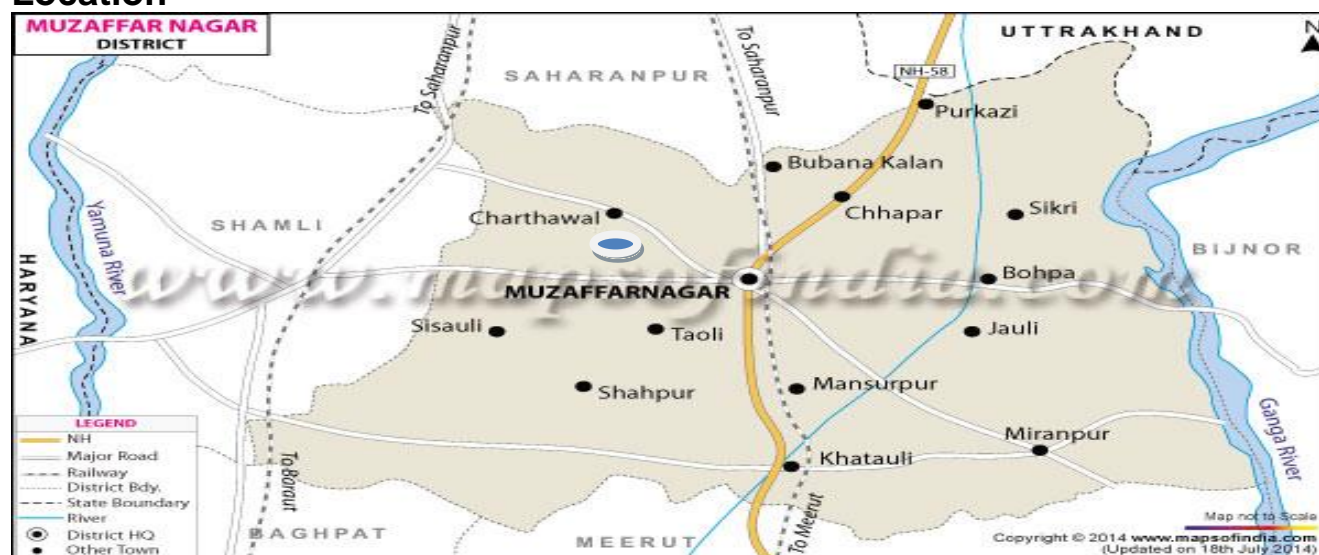
Address	Telephone		E-Mail
	Office	FAX	
DIRECTORATE OF EXTENSION S.V.P.Univ. of Agril. & Tech., Meerut.	0121- 2888511	0121- 2888505 2888540	deesvpuat2014@gmail.com dir.ext@svpuat.edu.in

1.3. Name of the Professor & Head

Name	Telephone/ Contact		E-Mail
	Residence	Mobile	
Dr. Hansraj Singh	9411263753	7037563753	kvkmuzaffarnagar@gmail.com

1.4 . Year of Sanction : December 1995

Location



KVK BAGHRA, MUZAFFARNAGAR, WESTERN PLAIN ZONE (UP)

1.5. Staff Position (as on 31st Dec. 2023) :

Sl. No.	Sanctioned post	Name of the incumbent	Design-ation	Subject	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Perman-ent /Temp-orary	Categor y (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Programme Coordinator	Dr. Hans Raj Singh	Professor& Head	Agronomy	37400-67000 10000	--	02.02.95	Permanent	OBC	9411263753	57	drhansraj67@gmail.com
2	Subject Matter Specialist	Dr. Savita Arya	SMS/Asstt. Prof.	Home Science	37400-67000 9000	181800	08.03.96	Permanent	OBC	8266855801	51	Savitaarya07@gmail.com
3	Subject Matter Specialist	Dr. Virendra Singh	SMS/Asstt. Prof.	Plant Protection	15600-39100 8000	107200	26.12.08	Permanent	OBC	9456841516	51	virendrdr@gmail.com
4	Subject Matter Specialist	Dr. Deepak Sharma	SMS	Livestock Producion	15600-39100 5400	57800	02.07.22	Permanent	GEN	9017182559	32	deepak0533@gmail.com
5	Subject Matter Specialist	Dr. Reena	SMS	Agronomy	15600-39100 5400	57800	07.07.22	Permanent	SC	9027590850	32	reenaverma230@gmail.com
6	Computer Programmer	Sh. A.K Singh	Programme Asstt.,Comp	Computer Application	9300-34800 4800	81200	16.10.99	Permanent	GEN	9412514823	48	1475ak@gmail.com
7	Accountant / Superintendent	Sh. S.K.Dubey	O.S/Acctt.	--	9300-34800 4600	58600	01.07.92	Permanent	GEN	9412050340	55	skdubey2071@gmail.com
8	Stenographer	Sh. Rakesh Pal	Steno	--	9300-34800	62200	01.07.98	Permanent	OBC	9319367470	55	---
9	Supporting staff	Sh. Ajesh Sharma	Attendant	--	4440-7440 2400	39800	16.01.95	Permanent	GEN	9456223598	48	kvkmuzaffarnagar@gmail.com

1.6. Total land with KVK (in ha) : 0.70 ha.

S.No	Item	Area (ha)
1.	Under Building	0.20
2.	Under Demonstration Units	0.50

1.7. Infrastructure Development :

A). Building

S. No.	Name of the building	Source of fund	Stage		
			Complete		
			Completion date	Plinth area in Sqm.	Sanctioned budget (Rs)
1.	Administrative Building	ICAR	March 1998	510 sqm	15.84 lac
2.	Farmers Hostel	ICAR	31.03.10	300	---
3.	Staff Quarters (6)	ICAR	31.03.08	400 sqm	26.71 lac
4.	Demonstration Unit (2)	ICAR	31.03.08	160 sqm	11.58 lac

B). Vehicles

Type of Vehicle	Year of Purchase	Cost (Rs.)	Total KMS Run	Present Status
Jeep UP12 S 2012	2009	507000.00	217498 KM	Auctioned
Tractor	1996	261685.00	--	Transferred to KVK Shamli
Bicycle	1995	2390.00	--	Auctioned
Motorcycle (Hero Honda-UP 12 W 9367)	2010	52000.00	31430 Km	Working

c). Equipments & AV Aids

Name of Equipment	Year of Purchase	Cost (Rs.)	Present Status
Equipments			
Weighing Balance with weight	20.05.98	505.00	Working
Sewing Machine	06.02.98	268.00	Working
P.A. Set	30.03.98	6327.00	Working
Water Tank	30.06.97	6200.00	1 Working
Diesel Engine with Alternator	30.03.98	19931.00	Working
Generator	24.03.04	28900.00	Working
Submercible T/Well	31.03.05	35500.00	Working
Soil Testing Laboratory (Furniture, Equipment complete accessories)	2004-05	860000.00	Working
V.C.D.	26.03.04	2450.00	Working
Camera	26.03.04	5800.00	Working
Camera (Digital)	01.02.07	19990.00	Working
Colour T.V.	07.02.04	16990.00	Working
Fax Machine	27.03.04	11000.00	Working
Scanner, C.D. Writer, UPS for Computer	31.03.05	7490.00	Working
Demonstration Material (Digital Poster 10 No., 3 D Models 6 No.)	23.03.04	14570.00	Working
LCD With Memory Card	30.03.07	68125.00	Working
42 CDs (ICAR Literature)	26.10.05	Provided by ICAR	Working
Farm Implements :			
Harrow	30.03.96	8500.00	Condemn
Tiller	30.03.96	10500.00	Working
Ridger	30.03.96	5700.00	Working
Laveller	30.03.96	9000.00	Working
Ridge Maker	30.03.96	4500.00	Working
Bogi	23.09.97	5025.00	Working
Foot Sprayer (Maruti)	14.03.97	1850.00	Working
Napsake Sprayer (Aspee)	14.03.97	865.00	Working
Jubliee Duster (Aspee)	14.03.97	900.00	Working
Harrow (11 disc)	01.08.03	11500.00	Working
Weighing Machine	06.08.04	2880.00	Working
Trolley	30.11.04	61500.00	Working
Zero Till Ferti Seed Drill	30.03.05	22500.00	Working
Raised- bad- planter	31.03.10	55000.00	Working
Soil Micronutrients unit	31.03.10	2480000.00	Working
Honey Processing Unit	31.03.10	760000.00	Working

DEMONSTRATION UNITS AT KVK



Honey Processing Unit



Agriculture Technology Information Center



Soil Testing Unit



Vermi Compost Unit



Medo Garden



Herbal Garden



Automatic Weather Station



Nutritional Kitchen Garden

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

Sl.No.	Date	Name and Designation of Participants	
1.	10.01.22	डॉ० पी०के० सिंह	निदेशक प्रसार, स०व०प० कृषि वि०वि० मेरठ
		डॉ० पी०के० सिंह	सह प्राध्यापक सस्य, सवप कृषि वि०वि० मेरठ
		डॉ० एस०के० त्रिपाठी	सह प्राध्यापक उद्यान, सवप कृषि वि०वि० मेरठ
		श्री आर०पी० चौधरी	उप कृषि निदेशक
		श्री अरविन्द कुमार शर्मा	डिप्टी पी०डी० आत्मा,
		डॉ० जे०पी० सिंह	संयुक्त निदेशक, गन्ना शोध
		डॉ० नीरज कुमार	वैटनरी ऑफिसर बघरा
		श्री अनिल कुमार पंवार	प्रगतिशील कृषक, ग्राम घटायन
		श्री अमित सिंह	प्रगतिशील कृषक, ग्राम लडवा
		श्री आजाद सिंह	प्रगतिशील कृषक, ग्राम बिजोपुरा
		श्री मनोज त्यागी	प्रगतिशील कृषक, रोहानाकलां
		श्री ओमकार त्यागी	प्रगतिशील कृषक, ग्राम बडकली
		श्री अनुराग त्यागी	प्रगतिशील कृषक, रोहानाकलां
		डॉ० अजित सिंह	प्रगतिशील कृषक, ग्राम कुटबा
		श्री प्रवीन कुमार	प्रगतिशील कृषक, ग्राम तितावी
		श्री राजेन्द्र सिंह	प्रगतिशील कृषक, अमीरनगर
		श्री सन्तुल त्यागी	प्रगतिशील कृषक, ग्राम खुसरोपुर
		श्री सोनू	प्रगतिशील कृषक, ग्राम चांदपुर
		श्री राज सिंह	प्रगतिशील कृषक, ग्राम नगलापिथौरा
		श्री कर्णसिंह	प्रगतिशील कृषक, ग्राम धनसनी
श्रीमती सुषमा तोमर	एस०एच०जी० मैम्बर		
श्रीमती रविता	महिला कृषक, ग्राम हैदरनगर		
श्रीमती ममता	महिला कृषक, ग्राम हैदरनगर		
श्रीमती पिकी	महिला कृषक, ग्राम लखान		
	Salient Recommendations	Action Taken	
1.	निदेशक प्रसार द्वारा अवगत कराया गया कि केन्द्र पर गाडी उपलब्ध न होने के कारण पीओएल मद में उपलब्ध धनराशि से गाडी हायर करते हुए केन्द्र के कार्यों को गति प्रदान की जाये।	POL से गाडी हायर करके कार्य सम्पादित किए जा रहे है ।	
2.	उप कृषि निदेशक द्वारा सुझाव दिया गया कि उर्द की फसल में कालागढ प्रजाति के परिणाम हमेशा सकारात्मक रहे हैं। इस प्रजाति को प्रदर्शनों में सम्मिलित किया जाये।	इस प्रजाति का बीज बदायूं से मगवाकर प्राकृतिक खेती का प्रदर्शन, केवीके क्राप कैफटेरिया में लगाया गया है। जिसमे एलो मोजैक वायरस का प्रकोप बिलकुल नहीं है।	
3.	डॉ० त्रिपाठी द्वारा सुझाव दिया गया कि प्रथम पंक्ति प्रदर्शनों के अन्तर्गत अन्य फसलों के साथ-साथ फलों को भी सम्मिलित करते हुए इस पर भी प्रदर्शन लगाये जाये।	गन्ने के साथ सरसों, प्याज, चुकन्दर, फेचबीन की सहफसली खेती के प्रदर्शन लगाए जा रहे हैं।	
4.	डिप्टी पी०डी० आत्मा द्वारा ट्रायकोकार्ड की उपलब्धता सुनिश्चित करने हेतु सुझाव दिया गया।	ट्राइकोडरमा का प्रयोग CFLD उर्द एवं तिल के प्रदर्शनों में किया जा रहा है ।	
5.	निदेशक प्रसार द्वारा सुझाव दिया गया कि प्राकृतिक खेती को रिवेलीडेट किया जाना आवश्यक है। इसके लिये अथेन्टिक डाटा की आवश्यकता है जिससे कि किसान भाई संस्तुत की गयी मात्रा का प्रयोग करके लाभान्वित हो सके। निकट भविष्य में इस कार्य पर एक परियोजना केन्द्र पर प्रस्तावित है।	केन्द्र पर गौ आधारित प्राकृतिक खेती, परम्परागत खेती, एवं जैविक खेती का तुलनात्मक अध्ययन करने के लिए प्रदर्शन लगाए गए है ।	
6.	द्वारा सुझाव दिया गया कि केन्द्र द्वारा सी०एफ०एल०डी० के अन्तर्गत लगाये गये सरसों की फसल के प्रदर्शनों पर ही पादप सुरक्षा विषय के प्रदर्शन आयोजित किये जायें। सरसों फसल पर अतिरिक्त प्रदर्शन लगाने की आवश्यकता नहीं है।	CFLD में प्रदर्शन अन्य फसलों, प्रमुख रूप से दलहन का प्रदर्शन आयोजित किए जा रहे है।	
7.	महिला स्वयं सहायता समूहों के द्वारा किये जा रहे उत्कृष्ट कार्यों पर एक सफलता की कहानी बनायी जाये।	महिला समूहों की सफलता की कहानी तैयार की गयी है।	
8.	सरकार द्वारा चलायी जा रही योजनान्तर्गत पशुओं में इयर टैग को बढ़ावा देने हेतु कृषकों को जागरूक किया जाये।	इयर टैग योजना की जानकारी प्रशिक्षण के माध्यम से कृषकों को दी जा रही है ।	
9.	डिप्टी पी०डी० आत्मा द्वारा कहा गया कि देर से बोयी जाने वाली गेहूं की प्रजाति डी०बी०डब्लू० 222 के परिणाम उत्साहजनक हैं। इस प्रजाति को भी प्रदर्शन में सम्मिलित किया जाये।	वर्तमान में दलहन एवं तिलहन के प्रदर्शन आयोजित किए जा रहे है ।	
10.	कीटों के नियंत्रण हेतु बाजार में विभिन्न प्रकार के ट्रैप उपलब्ध है। जिनका प्रयोग करके जैविक सब्जी उत्पादन किया जा सकता है। इस विषय में किसानों को जागरूक किया जाये।	बायो कन्ट्रोल मैसर्स के अनुसार प्रदर्शन आयोजित किए जा रहे है ।	

2. Details of District

2.1 Major Farming System/ enterprises (based on analysis made by KVK)

- S. Cane based + A.H+ Horticulture
- S. Cane based + A.H+ Vegetable + Floriculture
- A.H + Labour

2.2 Description of Agro climatic Zone & major agro ecological situations

Sl. No.	AES	Characteristics of AES	Major Commodities	Farming System	Blocks
1.	AES-1	More than 95% irrigated, Loam	S.Cane, Wheat, Rice, Jowar, Mango, Guava, Litchi , Frenchbean	S. Cane based + A.H+ Horticulture	Baghra & Sadar
2.	AES-2	More than 95%, Sandy Loam	S.Cane, Wheat, Jowar, Brinjal, Cabbage, Gladiolus, Tuberose,	S. Cane based + A.H+ Vegetable+ Floriculture	Charthawal, Khatauli
3.	AES-3	Low Water table area, Loam & Sandy Loam soil	S. Cane, Wheat, Blackgram, Jowar, Mango	S. Cane based + A.H + Horticulture	Budhana & Shahpur

2.3 Soil Type/s

S.No.	Soil Type	Characteristics		Area (ha)
		Soil particle Diameter (mm)	Water holding capacity	
1.	Sandy	2 - 0.2 mm,	Poor	17633
2.	Sandy loam	0.2 - 0.02 mm,	Medium	128334
3.	Loam	0.02 - 0.002 mm	Average	78186
4.	Clay loam	>than 0.002 mm	Good	5126
		Total		219269

2.4. Area, Production and Productivity of major crops cultivated in the district (2020)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)	Yield gap (q/ha) with respect to demo	Yield gap (q/ha) with respect to potential yield
1	Sugarcane	132004.00		933.00	--	--
2	Wheat	80254		41.17	--	--
3	Paddy	11580		27.30	--	--
4	Blackgram	717		5.40	--	--
5	Greengram	100		4.14	--	--
6	Lentil	285		6.91	--	--
7	Gram	270		1074	--	--
8	Pea	360		13.89	--	--
9	Pigeon Pea	37		8.04	--	--
10	Mustard	4018		12.67	--	--
11	Potato	3260		230.01	--	--
12	Cotton	274		1.30	--	--
13	Maize	250		15.75	--	--

2.5. Weather data (2022-23)

Year	Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
2022	January 2022	103.8	16.3	6.4	85.5	--
	February 2022	50.8	21.9	7.4	78.5	--
	March 2022	0.00	31.4	14.2	56.0	--
	April 2022	0.00	38.2	19.3	35.5	--
	May 2022	84.0	36.4	23.3	52.0	--
	June 2022	69.8	37.1	23.7	51.0	--
	July 2022	144.6	33.6	25.2	76.0	--
	Aug. 2022	--	--	--	--	--
	Sept. 2022	--	--	--	--	--
	Oct. 2022	--	--	--	--	--
	Nov. 2022	--	--	--	--	--
	Dec. 2022	--	--	--	--	--
2023	January 2023	16.0	17.7	6.7	89	64
	February 2023	0.00	26.0	10.2	80	41
	March 2023	79.4	28.0	15.0	76	47
	April 2023	19.6	33.9	19.4	55	26
	May 2023	113.4	34.0	22.1	59	37
	June 2023	37.4	35.4	25.3	64	49
	July 2023	534.6	32.1	26.5	87	74
	Aug. 2023	183.4	33.2	26.7	85	71
Total	Sept. 2023	140.2	33.5	24.7	85	63

2.6 Production & Productivity of Livestock, Poultry, Fisheries in the district

Category	Population	Production	Productivity
Cows			
Crossbred	35460	413514 liter/day	1800-3178 liter/lactation
Indigenous	133459		1200-2270 liter/lactation
Buffalo	194306	1790140 liter/day	1360-2270 liter/lactation
Sheep		--	--
Crossbred	223	Wool - 11873 kg/year	--
Indigenous	8478		--
Goats	20429	5294 mt	180-544 lit/lactation
Pigs			
Crossbred	10543	12012000 kg meat	--
Indigenous	24856		--
Rabbits	281	--	--
Poultry			
Hens	--	--	--
Desi	54502	163589 kg meat	1.0 kg
Improved	109087		
Ducks	1642	--	--
Turkey	19	--	--
Camel	41	--	--

Fisheries

Category	Area (ha)	Production	Productivity
Fish	1239	40887 qt	30-35

2.7 Details of Operation area/ Villages (2023)

S. No.	Taluk	Name of Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust areas
1.	Sadar	Baghra	Ameernagar Ladwa Baghra Saidpura Mandi Lakhan	Sugarcane	Low yield due to imbalance fertilizer	Balance use of fertilizer
				Wheat	Low yield due to high infestation of weeds	Weed management
				Mustard	Poor yield due to aphid infestation	Insect mgt.
				Mango	Poor yield due to no use of micronutrients	Fertilizer management
				Guava	Poor quality yield due to fruit fly infestation	Fruit fly management
				Cauliflower	Poor yield due to use of local variety	Introduction of HYV
				Brinjal	Poor quality of fruits due to foot & shoot borer	IPM
2.	Sadar	Charthawal	Rohana kala Khusorpur Badhai kala Badkali	Sugarcane	Low yield of Sugarcane	Introduction of HYV Balance fertilizer application IPNM & IPM
				Mango	Low yield of Mango	IPNM & IPM Rejuvenation of old orchard Introduction of regular bear variety
				Wheat	Low yield	Water management IPM Weed mgt. Introduction of HYV
				Barseem	Low fodder production	Timely sowing Introduction of HYV \\
3.	Budhana	Shahpur	Salakhedi Sohjani Tagan Rasoolpur Jaatan Dinkarpur	Sugarcane	Low yield of Sugarcane	Introduction of HYV Balance fertilizer application IPNM & IPM

				Mango	Low yield of Mango	IPNM & IPM Rejuvenation of old orchard Introduction of regular bear variety
				Wheat	Low yield	Water management IPM Weed mgt. Introduction of HYV
				Barseem	Low fodder production	Timely sowing Introduction of HYV

2.8 Priority Thrust Areas.

Crop/Enterprise	Thrust area
Sugarcane	IPNM, SSNM, Weed management, IPM, IDM, Seed production
Wheat	Integrated Nutrient Management, Weed management, IPM, IDM, Seed production, Foliar application of Micronutrients
Rice	IPNM, Weed management, Hybrid rice, IPM, IDM, Seed production
Vegetables	IPNM & IPM
Oilseeds & Pulses crop	Sulphur, Zinc application & IPM
Animals	Endo & Ecto parasite control, Improving fertility

1. Maintenance of soil productivity through soil test based nutrient management.
2. Promoting intercropping modules with Sugarcane
3. Popularizing Bio- pesticides for management of insect pests
4. Promoting quality floriculture as diversification enterprise for extra income generation.
5. Promoting quality vegetable nursery
6. Mineral mixture supplementation among animals for improving fertility
7. Promoting Group Approach of Extension through Women SHGs and Vallabh Krishak Clubs

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during Jan to Oct. 2023

OFT (Technology Assessment and Refinement)		FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1		2			
Number of OFTs		Achievements		Shortfall	
Targets	Achievement	Crop/Enterprise	No of Demo / Farmer	Targets	Achievement
6	5	Cereals	5	Demo	200
		Pulses	75		
		Oilseeds	50		
		Other crops	50		
		H.Sc	25		
		Buffalo/ Cattle	10		
6	5	Total	220		

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	100	54	2000	1089	---	980	2000	12476
Rural youth		09	--	144				
Extn.Func		24	--	261				
Sponsored		06		340				
Vocational		01	--	20				
Total:	100	93	2000	1854	---	980	2000	12476

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
200 Q.	--	--	20000 No.	12000	--
Total :	--		20000 No.	12000	--

Soil Samples (Nos.)			
5			
Target	Achievement	No. of farmers	Amount
1200	203	203	30450.00
Total :	95	95	30450.00

I.A. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
ICM	Sugarcane	Irrigation Management through Soil Moisture Indicator	1	5
IPM	Sugarcane	White Grub Management in Sugarcane	1	5
IPM	Paddy	Stem Borer Management in Paddy	1	5
Disease management in Cattle	Cattle	High incidence rate of Clinical Mastitis (CM)	1	10
Low Nutritional status and Malnutrition of Farm women	Other Enterprises	Assessment of the effective supplementation of fortified wheat flour for improvement of nutritional status of Farm Women	1	5
Total			5	30

I.B. TECHNOLOGY REFINEMENT- Nil


I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

RESOURCE CONSERVATION

Problem definition: Excess Irrigation in Sugarcane

Technology Assessed : Irrigation Management through Soil Moisture Indicator

Table :

Technology Option	No of Irrigation	% Water Saving	Yield (Qt/ha)	% increase in yield	Cost of Cultivation (Rs/ha)	Gross Income (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
T1- Farmers Practice (Excess Irrigation- 15-20 Irrigation)	13	--	800	--	127021.00	300500.00	173979.00	1.36:1
T2-Irrigation based on Soil Moisture Indicator	8	5 (26.3%)	810	1.25	121421.00	304250.00	182829.00	1.50:1
Result : Crop Standing and will harvested till Jan 2024								


INTEGRATED DISEASE MANAGEMENT

Problem definition: Lower productivity of Sugarcane due to infestation of White Grub

Technology Refined : To increase the Production potential through integrated management of White Grub

Sugarcane is main case crop of Western UP. However there is high infestation of White grub in Sugarcane. Resulting in yield loss. Therefore, On farm trial conducted at farmers field on five locations to integrate control measure. The refined technology of application of Chloropyriphos 20 EC@5.0 liter/ha with irrigation water and soil application of Beuveria Bassiana @5 kg/ha mixed with FYM @ 500 kg/ha was used to reduce the infestation of White grub in Sugarcane crop.

Table : Effect of Chloropyriphos & Beuveria Bassiana to Control reduce the infestation of White grub


Technology Option	No. of trials	Yield q/ha	Gross cost Rs./ha	Net return Rs./ha	White Grub Infestation (%)	Increase in Yield (%)	B:C Ratio
T1- Farmers Practice (No treatment)	05	640.2	76000.00	148070.00	18%	--	1.95:1
T2- Use of Chloropyriphos 20 EC @5.0 liter/ha with irrigation water and Soil application of Beuveria Bassiana @5 kg/ha mixed with FYM @ 500 kg/ha		759.4	78500.00	187290.00	5%	18.6	2.38:1
Result : 1.18.6% Yield increased in comparison to farmers practice 2.15% Less infestation of insect seen in comparison to other field. 3. Economically it is beneficial technique and less damage to environment							

INTEGRATED DISEASE MANAGEMENT

Problem definition: Lower Yield of Paddy due to high infestation of Stem borer insect
Technology Refined : To increase the Production potential through management of Stem borer

Paddy is an important kharif Cereal crop of western UP. However there is high infestation of Stem borer insect in Paddy crop, resulting in yield loss. Therefore, On farm trial conducted at farmers field on five locations to refine chemical control measure. The refined technology of soil application of Chlorotrenipole (Fertera) 0.4%GR@10 kg/ha was used to reduce the infestation of Stem borer in Paddy crop.

Table : Effect of Chloropyriphos & Beuveria Bassiana to Control reduce the infestation of Stem Borer

Technology Option	No. of trials	Yield q/ha	Increase in Yield (%)	Stem Borer Infestation %	B:C Ratio
T1- Farmers Practice (No treatment)	05	38.90	--	19%	1.29 : 1
T2- Soil Application of Chlorantraniliplore (Ferterra) 0.4% GR @4kg/acre		47.64	22.47	5%	1.73 : 1
Result : 1. Insecticide Fertera was found effective to control the Stem borer insect in Paddy Crop 2. 10% Less infestation of insect seen in comparison to other field. 3. Economically it is beneficial technique and less damage to environment					


LIVE STOCK ENTERPRISES

Problem definition: High incidence rate of Clinical Mastitis (CM)

Technology Assessed (as the case may be): CMT (California mastitis kit) to detect the subclinical mastitis (SCM) in milking animals.

In district Muzaffarnagar Mastitis is most common disease in Milking animals. Total 60-70 % animals affected by this problem. There are two stages of Mastitis , one Clinical stage & second Sub Clinical. KVK Baghra conducted a trial in Rabi 2022-23 season to find out the appropriate control of clinical mastitis in milking animals under field conditions. CMT kits were distributed to the farmer, who was trained.

Table: results of CMT kits

Technology option	No of trials	Success rate (%)
T1- Farmers Practice (No technology used)	5	--
T2- California mastitis kit (CMT kit)	10	40%
Result : 1- Out of 10 farmers, six reported subclinical mastitis, and among those six cases, two SCM-infected animals reached clinical mastitis, and the rest recovered successfully. 2- Farmer's awareness play a major role for treatment of the problems.		

HOUSEHOLD FOOD SECURITY

Problem definition: Low Nutritional status and Malnutrition of Farm women

Technology Assessed : Assessment of the effective supplementation of fortified wheat flour for improvement of nutritional status of Farm Women through Fortified wheat flour (75%) + Gram Flour (20%) + Barley Flour (10%) for 180 days (**Protein 14-15%, Iron 2.0-2.4 mg/100 gm**)

Technology Options	No. of trials	Yield (kg or Q)	Availability/year (Days)	Hb level (g/dl)	Perceived rate of Exertion (%)				Height	Weight	BMI
				Pre blood test (Prevailing Practice) (Av.)	Post blood test	Low	Medium	High			
Farmers practice	05	350 gm/day	180	8.68			Medium		150.96	48.6	21.41
Fortification of Locally available grains		350 gm/day	180 days	--	10.00	Low			150.96	51.34	22.62

NUTRITIONAL PARAMETERS

Treatment	Composition on multigrain Atta	Requirement gm/day	Value full filled								Impact on Health status	
			Energy (Kcl)	Protein (gm)	Fat (gm)	CHO (gm)	Fiber	Ca (gm)	P (gm)	Iron (mg)	General health	Disease occurrence
Farmers Practice T1	Only wheat flour	350	1218	38.85	3.15	258.65	1.05	80.5	423.5	9.45	Lack of Hemoglobin	Anemia (1 respondents)
Technology demonstrated T2	Wheat 70 %	245	835.45	29.65	4.17	170.03	4.65	117.6	869.75	--	--	Recover anemia
	Chickpea 20%	75	270.00	12.83	3.98	45.68	2.93	151.5	234	--		
	Barley 10%	30	100.8	3.45	0.39	208.8	1.17	7.8	64.5	--		
	Total 100 %	350	1206	45.93	8.54	424.78	8.75	276.9	1168.25	15.96		

Economic and Sensory Parameters

Technology Option	Economic Parameter				Sensory Parameter score				
	Cost of cultivation (Rs)	Gross return (Rs)	Net Profit (Rs)	B:C Ratio	Taste	Flavour	Colour	Texture	Overall Acceptability
T1- Farmers practice	22	-	-	-	Like moderately	Like moderately	Like	smooth	Like moderately
T2 -Fortified flour	31	-	-	-	Like extremely	Like extremely	Like extremely	Rough	Like extremely

Result : 100 percent women liked multigrain atta as it improved their working efficiency, they felt less fatigue, initially did not like the texture but later got accustomed and liked its taste and flavor .

II FRONTLINE DEMONSTRATION (Oilseeds)

a. List of technologies demonstrated during previous year (2021-22)

S. No.	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.	Varietal improvement- Mustard	RH 749	Kisan Gosthi, Field & Extension functionaries training	14	25	10

b. Details of CFLDs implemented during 2021-22 under NFSM

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	
Oilseeds										
1.	Mustard	Varietal evaluation	RH 725	Rabi 2022-23	20.0	20.0	0	50	50	-

c. Details of Farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Mustard RH 725	Rabi 2022-23	Irrigated	Sandy loam	M	M	L	Paddy	01-15 Oct 2022	15-30 March 2023	-	02

Technical Feedback on the demonstrated technologies

S.No	Feed Back
Oilseed Mustard (RH 725)	
1	No occurrence of Disease
2	Low water Requirement crop

Farmers' reactions on specific technologies

S. o	Feed Back
Oilseed Mustard (RH 725)	
1	Yield increased 29.98 % in comparison to local variety .
2	Bold grain size led to better price in the market.
3.	No occurrence of Disease

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1.	Field days -	--	--	--	--
3.	Farmers Training for conducting CFLD	02	28.12.22 & 20.3.23	55	
4.	Field Visit	02	14.11.22 & 24.02.23	27	

Performance of Frontline Demonstrations on Oilseeds Crop :

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Parameters name (No. of branches, No. of tillers, No. of pods or grains per plant, duration (days), No. of plants/sq mt.)	Result of main parameter			% Advantage	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)							
							Demo plot				Demo			Check plot		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)				
							High	Low	Average		High	Low	Average											Check			
Mustard																											
Mustard 2022-23	Varietal evaluation	HYV seed	RH 725	50	20.0	Duration (Days)	140	152	145	160	10	19.4	14.7	17.38	13.84	25.57	32000	94721	62721	1.96	30000	75428	45428	1.51			

Performance of technology

Mustard	RH 725	Shatabadi
Maturity Duration (days)	148 days	150 days and above
Disease incidence	Nil	

II FRONTLINE DEMONSTRATION (Pulses)

c. List of technologies demonstrated during previous year (2021-22)

S. No.	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.	Varietal improvement- Lentil	PL 8	Demo, Training, FLD, CFLD	17	55	46.00
2.	Varietal Improvement of Gram	RVG 202	Demo, Training, FLD, CFLD	14	110	95.00

d. Details of CFLDs implemented during 2022-23 under NFSM

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.	Blackgram-Urd	Varietal evaluation	IPU 13-1	Zaid 2023	10.0	10.0	--	25	25	--
3.	Blackgram-Urd	Varietal evaluation	PU-7	Kharif 2023	20.0	20.0	4	46	50	--

c. Details of Farming situation

Crop	Season	Farming situation (RF/I irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Blackgram-Urd	Zaid 2023	Irrigated	Sandy Loam	M	M	M	Wheat	15 March – 30 March	--	--	07
Blackgram-Urd	Kharif 2023	Irrigated	Sandy Loam	M	M	M	Sugarcane Fodder	26 July to 11 Aug. 23	--	--	22

Technical Feedback on the demonstrated technologies

S.No	Feed Back
	Pulses- Urd (PU7)
1	Yellow Mosaic resistant Variety
2.	Less Infestation of Bihar Hairy Catter Piller

Farmers' reactions on specific technologies

S. No	Feed Back
1.	Satisfied for disease resistant (Mellow Mossaic)
1	Occarance of Leaf Cricking (5-10%)

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1.	Field days	01			
3.	Farmers Training for conducting CFLD				
5.	Field Visit- Urd	04	17 Aug, 18 Sept., 23 Sept, 25 Sept. 2023	28	

Performance of Frontline Demonstrations of Pulses Crop:

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Parameters name (No. of branches, No. of fillers, No. of pods or grains per plant, duration (days), No. of plants/sq mt.)	Result of main parameter				% Advantage	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
							Demo plot					Demo					Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
							High	Low	Average	Check plot		High	Low	Average	Check									
Blackgram	Varietal	Seed	IPU13-1	25	10	No. of pods or grains per plant Yield,	48	35	41.5	35	18.6	15	11	13	11	18.2	18000	42480	24480	1.36:1	16000	30000	14000	0.87:1
Blackgram	Varietal	HYV	PU7	50	20.0	No. of pods or grains per plant Yield,	45	32	38.5	35	10	13	10	11.5	11	4.3	20100	42000	21900	1.1:1	18000	28000	10000	0.55:1



Flowering Stage of Mustard RH 725 Visited by DE with Univ. Officials



Mature Crop of Mustard RH 725



Field Photograph on CFLD Pulses – Urd (PU-7)


FLD on Other crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Parameters name (No. of branches, No. of fillers, No. of pods or grains per plant, duration (days), No. of plants/sq mt.)	Result of main parameter				% Advantage	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)				
							Demo plot			Check plot		Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)	
							High	Low	Average			High	Low	Average											
Cereals																									
Sugarcane	IPM	Early Shoot Borer mgt.	--	15	6.0	Result Awaited	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sugarcane	IPM	Pokka Boeing Disease	--	15	6.0	Result Awaited	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sugarcane	IWM	Weed Mgt.	--	10	4.0	Result Awaited	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guawa	IPM	Fruit Fly Trap Mgt.	--	10	4.0	Result Awaited	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

FLD PHOTOGRAPH



FLD on Livestock

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Parameters name (No. of branches, No. of tillers, No. of pods or grains per plant, duration (days), No. of plants/sq mt.)	Result of main parameter				% Advantage	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
							Demo plot			Check plot		Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
							High	Low	Average			High	Low	Average										
Berseem	Varietal	HYV	Kavari	10	1.33	Days of first cutting	35	45	40	50	30	900	750	825	750	9	 <p>Charthawal Rural, Uttar Pradesh, India MDR 163W, Charthawal Rural, Uttar Pradesh 251311, India Lat 29.515489° Long 77.582208° 20/01/23 01:07 PM GMT +05:30</p>							

Farmers reactions on the demonstrated technologies (by KVK Scientist who conducted the FLD)

S. No	Feed Back for researchers	Feedback for line department
1	Kavari is good variety, it give more cuttings in comparision to local variety	This variety should be available at Govt. store for popularization

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)
Kitchen Garden	Household food security by kitchen gardening and nutrition gardening	200sq mt well planned Kitchen Garden	25	25	128	20	6	--	--	250	8560	8310	32:1	50	150	100	3:1

Farmers Reaction:

Farm Women were very happy and general health of family members became better, as the family consumed fresh and organic vegetables in sufficient amount thought out the year. With a little expenditure on seeds and saplings they got vegetables of much more value. Most of the women said they got self satisfaction by growing their own vegetables. Other benefit obtained that neighboring female also got motivated and setup their own kitchen garden.



FLD ON KITCHEN GARDEN

FLD on Demonstration details on crop hybrids (Details of Hybrid FLDs implemented during 2023) : Nil

III. Training Programme

Farmers' Training including sponsored training programmes (on campus)

Thematic area	Actual Title of training conducted	No. of courses	Participants								
			Others			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production											
Weed Management	IWM in Crops	1	20	--	20	--	--	--	20	--	20
Resource Conservation Technologies	Scientification Cultivation of Ragi	1	20	--	20	--	--	--	20	--	20
	Resource Conservation tech in Agriculture	1	20	--	20	--	--	--	20	--	20
Total		03	60	--	60	-	--	--	60	--	60
IV Livestock Production and Management											
Dairy Management	Vaccination Schedule for Livestock	1	20	--	20	--	--	--	20	--	20
Disease Management	FMD: Its causes, symptoms & prevention	1	20	--	20	--	--	--	20	--	20
Feed & fodder technology	Green fodder production around the year.	1	20	--	20	--	--	--	20	--	20
Total		03	60	--	60	--	--	--	60	--	60
V Home Science/Women empowerment											
Women and child care	Anemia, Awareness, Reasons & Diet Therapy	01	--	18	18	--	02	02	00	20	20
Women Empowement	Making of Soap, Making of Cow Dung Products	02	--	30	30	--	10	10	00	40	40
Design and development of low/minimum cost diet	Types of Millets, its nutritional Value & importance of different grain in diet	01	--	19	19	--	07	07	00	26	26
Value Addition	Value Addition of Amla, Value Addition of Rabi Seasonal Vegetables	02	--	36	36	--	04	04	00	40	40
Total		06	--	103	103	--	23	23	00	126	126
VII Plant Protection											
Integrated Pest Management	IPM in Wheat Crop	01	20	01	21	02	--	02	23	--	23
Integrated Disease Management	Control of Major Insect & Disease in Mango Orchard	01	18	--	18	02	--	02	20	--	20
Bio- Control of Plant Disease	Pest mgt. in Natural farming	01	16	04	20	--	02	02	20	02	22
Total		03	54	05	59	04	02	06	63	02	65
GRAND TOTAL		15	174	108	282	04	25	31	183	128	311

Farmers' Training including sponsored training programmes (off campus)

Thematic area	Actual Title of training conducted	No. of courses	Participants								
			Others			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production											
Integrated Crop Management	IFS, Sugarcane Cultivation, Irrigation mgt through Soil Moisture Indicator,	04	75	--	75	05	--	05	80	--	80
Integrated nutrient management	Irrigation & Nutrinet mgt in Mustard & Wheat , Causes & Prevention of Difficiency of micronutrients in Sugarcane	02	40	--	40	--	--	--	40	--	40
Cropping Systems	Scientific Urd Cultivation & Cultivation of Late Sown Wheat	02	40	--	40	--	--	--	40	--	40
Weed Management	Weed mgt. in Kharif	01	20	--	20	--	--	--	20	--	20

	Crops										
Total		09	175	--	175	05	--	05	180	--	180
IV Livestock Production and Management											
Dairy Management	Major milch breed of buffalo & identification, Role of Indigenous Cow in Natural Farming	02	35	--	35	05	--	05	40	--	40
Animal Nutrition Management	Feed management of calves during winter	01	18	--	18	02	--	02	20	--	20
Disease Management	Mastitides Disease & its impact on Human Health , Heifer Management , ROP Causes & Prevention , Anoos: Its Causes & Prevention	04	72	--	72	08	--	08	80	-	80
Goat Farming	Broilrar Goat Farming	01	15	--	15	05	--	05	20	--	20
Total		08	140	--	140	20	--	20	160	--	160
V Home Science/Women empowerment											
Household food security by kitchen gardening and nutrition gardening	Kitchen Gardening –A healthy way of life	02	--	35	35	--	08	08	00	43	43
Design and development of low/minimum cost diet	Low cost Diet for farm women, Importance of Millets	02	--	31	31	--	09	09	00	40	40
Storage Loss Minimization Technique	Safe Grain Storage	01	--	17	17	--	03	03	00	20	20
Drudegery Reduction	Drudegery Reduction Tools	01	--	15	15	--	05	05	00	20	20
Gender mainstreaming through SHGs	Credit management through SHG for Income Generation	01	--	18	18	--	02	02	00	20	20
Value addition	Making of Mango squash	02	--	33	33	--	07	07	00	40	40
Women and child care	Health & Hygeine of Family	01	--	17	17	--	03	03	00	20	20
Others (pl specify) Water Saving Tech	Water saving Techniques at Household Level	01	--	16	16	--	04	04	00	20	20
Total		11	--	182	182	--	41	41	00	223	223
VII Plant Protection											
Integrated Pest Management	Management of Termite and white grub in sugarcane, Control of Rats in Field, IPM in Vegetable Crop, Control of Major and disease in Kharif Urd Crop, Control of Major Insects & disease in Paddy Crop, Control of Major Insects & disease in Guawa Orchard	06	117	01	118	05	--	05	122	01	123
Integrated Disease Management	Control of major insects & disease in Paddy, Control of white rust and aphids in Mustard crop, Control of Major Insects & disease in Sugarcane Crop	03	60	--	60	01	--	01	61	--	61
Bio- Control of Plant Disease	Use of Bio-pesticides in organic farming, Method of Crop Residue mgt & role of Water Decomposer in CRM	02	39	--	39	01	--	01	40	--	40
Total		11	216	---	216	07	--	07	223	--	223
GRAND TOTAL		39	531	183	683	32	41	73	563	224	787

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

Area of training	Actual Title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Vermi Composting	Vermi Composting	01	12	--	12	01	--	01	13	--	13
Integrated Farming System	Sugarcane Based Integrated farming System	01	17	--	17	01	02	03	18	02	20
Mushroom Prog.	Mushroom Production Technology	01	10	--	10	--	--	--	10	--	10
Goat Farming	Scientific Goat Farming	02	39	01	40	--	--	--	39	01	40
Value Addition	Making of Achar from Seasonal vagatables	01	--	10	10	--	05	05	00	15	15
Tailoring and Stitching	Stitching for Self Employment	01	--	15	15	--	00	00	00	15	15
Income Generation Activity	Rural Craft	01	--	13	13	--	02	02	--	15	15
	Diya & Other Products making from Cow Dung	01	--	13	13	--	02	02	--	15	15
TOTAL		09	78	52	130	02	11	13	80	63	143

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

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

Area of training	Actual Title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Vermi Composting	Vermi Composting	01	12	--	12	01	--	01	13	--	13
Integrated Farming System	Sugarcane Based Integrated farming System	01	17	--	17	01	02	03	18	02	20
Mushroom Prog.	Mushroom Production Technology	01	10	--	10	--	--	--	10	--	10
Goat Farming	Scientific Goat Farming	02	39	01	40	--	--	--	39	01	40
Value Addition	Making of Achar from Seasonal vagatables	01	--	10	10	--	05	05	00	15	15
Tailoring and Stitching	Stitching for Self Employment	01	--	15	15	--	00	00	00	15	15
Income Generation Activity	Rural Craft	01	--	13	13	--	02	02	--	15	15
	Diya & Other Products making from Cow Dung	01	--	13	13	--	02	02	--	15	15
TOTAL		09	78	52	130	02	11	13	80	63	143

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

Area of training	Actual Title of training conducted	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	Scientific Cultivation of Sugarcane, Finger Millets Cultivation, ICM in Wheat	04	54	--	54	07	--	07	61	--	61
Protected Cultivation	Identification of Major insect & disease in Rabi Crops	01	10	--	10	--	--	--	10	--	10
Producted Use of Organic Inputs	Method of Crop Protection in Natural Farming	01	10	--	10	--	--	--	10	--	10
Safe Use of Pesticides	Safe Use of Bio Pesticides in IPM & Method Of Seed Treatment in Sugarcane	02	20	--	20	--	--	--	20	--	20
Gender mainstreaming through SHGs	Credit management through SHG	03	0	15	15	0	15	15	0	30	30
Women and Child care	Importance of balance nutrition for Pregnant mother	03	0	21	21	0	09	09	0	30	30
Low cost and nutrient efficient diet designing	Importance of balanced diet for lactating mothers	03	0	25	25	0	05	05	0	30	30
Household food security	Use of Millets in Diet, Cheching Adulteration , Kitchen Gardening	03	0	25	25	0	05	05	0	30	30
Feed & Fooder Mgt.	Role of Mineral Mixture in Diet & Ration Balancing in Dairy Animals	02	20	--	20	--	--	--	20	--	20
Any other	Disease mgt in Animal & Ear	02	20	--	20	--	--	--	20	--	20

(pl.specify)	tagging in Animals										
TOTAL		24	134	86	220	07	34	34	141	120	261

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

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

Area of training	Actual Title of training conducted	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	Scientific Cultivation of Sugarcane, Finger Millets Cultivation, ICM in Wheat	04	54	--	54	07	--	07	61	--	61
Protected Cultivation	Identification of Major insect & disease in Rabi Crops	01	10	--	10	--	--	--	10	--	10
Product Use of Organic Inputs	Method of Crop Protection in Natural Farming	01	10	--	10	--	--	--	10	--	10
Safe Use of Pesticides	Safe Use of Bio Pesticides in IPM & Method Of Seed Treatment in Sugarcane	02	20	--	20	--	--	--	20	--	20
Gender mainstreaming through SHGs	Credit management through SHG	03	0	15	15	0	15	15	0	30	30
Women and Child care	Importance of balance nutrition for Pregnant mother	03	0	21	21	0	09	09	0	30	30
Low cost and nutrient efficient diet designing	Importance of balanced diet for lactating mothers	03	0	25	25	0	05	05	0	30	30
Household food security	Use of Millets in Diet, Cheching Adulteration , Kitchen Gardening	03	0	25	25	0	05	05	0	30	30
Feed & Fodder Mgt.	Role of Mineral Mixture in Diet & Ration Balancing in Dairy Animals	02	20	--	20	--	--	--	20	--	20
Any other (pl.specify)	Disease mgt in Animal & Ear tagging in Animals	02	20	--	20	--	--	--	20	--	20
TOTAL		24	134	86	220	07	34	34	141	120	261

Table. Sponsored training programmes :

Area of training	Actual Title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Production and value addition											
Bee Keeping (ARYA)	Scientific Bee Keeping	03	50	25	75	--	--	--	50	25	75
Mushroom Production (ARYA)	Mushroom Prod.	01	20	--	20	--	--	--	20	--	20
Production of Inputs at site	Vermi Composting & Cultivation of Millets	02	200	40	240	--	5	5	200	45	245
Total		06	270	65	335	--	5	340	270	70	340

Name of sponsoring agencies involved : NBB, Ministry of Agriculture.

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

Area of training	Actual Title of training conducted	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management											
Bee Keeping	Bee Keeping	03	75	--	75	--	--	--	75	--	75
Total		03	75	--	75	--	--	--	75	--	75
Grand Total		03	75	--	75	--	--	--	75	--	75

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	01	1092	0	1092
Diagnostic visits	38	186	0	186
Field Day	05	150	10	160
Group discussions	06	0	180	180
Kisan Ghosthi	40	2400	249	2649
Film Show /Radio Talk	01	0	0	0
Self -help groups	24	200	50	250
Kisan Mela	21	3000	774	3774
Exhibition	02	600	285	885
Scientists' visit to farmers field	200	1300	74	1374
Plant/animal health camps	0	0	0	0
Farm Science Club Meeting	0	0	0	0
Ex-trainees Sammelan	02	50	10	60
Farmers' seminar/workshop	02	84	16	100
Method Demonstrations	0	0	0	0
Celebration of important days	06	300	0	300
Special day celebration	03	180	20	200
Exposure visits	05	410	0	410
Others (pl. specify)FPO Meeting	08	0	240	240
Farmers Visit to KVK	616	550	66	616
Total	980	10502	1974	12476

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	--
Extension Literature	--
News paper coverage	15
Popular articles	--
Radio Talks	
TV Talks	
Animal health camps (Number of animals treated)	---
Others (pl. specify)- Book Chapter/Book /Training manual	01

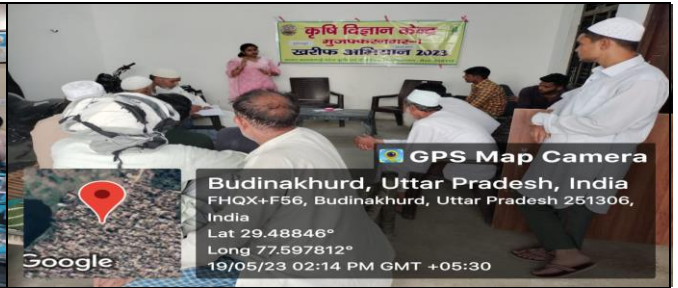
Mobile Advisory Services

No. of KVKs	No. of SMSs sent	No. of farmers benefited
KVK Baghra Muzaffarnagar-I	1092	1092

EXTENSION ACTIVITIES



Training on International Year of Millet



Kharif Abhiyan 2023



ICAR Foundation Day 18.07.2023



Plantation Drive Organized by KVK



Exposure Visit of Bee Farmers under ARYA



International Yoga Day 21.06.23



KVK Stall at Pasu Prasarshani on 6-7 April 2023



My Life Programme



निताली क्षेत्र में पौधरोपण करते बच्चे और अतिथि। संवाद



बघरा के कृषि विज्ञान केंद्र में आयोजित प्रशिक्षण कार्यक्रम में भाग लेती महिलाएं - जवाहर

कृषि विज्ञान केंद्र बघरा में प्रशिक्षण कार्यक्रम संपन्न

संवाद सूत्र, विसादी : बघरा स्थित कृषि विज्ञान केंद्र में चार दिवसीय कार्यक्रम संपन्न हो चुका है। केंद्र प्रभारी सविता आर्या ने बताया कि यह प्रशिक्षण विशेष रूप से महिलाओं के लिए आयोजित किया गया था। ऐसी महिलाएं आत्मनिर्भर बन कर समाज में सम्मान पा सकें। प्रशिक्षण में क्षेत्र की बीस महिलाओं ने भाग लिया। अतिथित महिलाओं के आर्थिक स्वावलंबन के लिए महिलाओं को नहाने की साबुन बनाने का प्रशिक्षण दिया गया। प्लोविट, ओम, जॉरिचन तेल आदि का प्रयोग कर विन्न विन्न प्रकार की साबुन बनाई।

Press Release

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

Production of seeds by the KVKs : Nil

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
Vegetable seedlings						
Onion	Onion	ADR	--	10000	--	20
Cauliflower	Cauliflower	AZCL	--	500	--	15
Brinjal	Brinjal	VNR-51C	--	500	--	12
Tomato	Tomato	AZT-07	--	1000	--	45
Total				12000		92

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers				
Vermi Compost	Vermi Compost	2350	12475.00	05
Honey Processed	Honey	295	4475.00	02
Total		2645	16950.00	07

Production of Bio-Products : Nil

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	203	203	30	30450.00
Total	203	203	30	30450.00

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
Nil	1. 01 (29.11.2023)

IX. NEWSLETTER : Nil

Name of News letter	No. of Copies printed for distribution
Nil	Nil

X. PUBLICATIONS

Category	Number
Research Paper	--
Abstract	--
BookLet	--
Technical reports	06
Popular Articles	--
Extension literature	01/500
Total	04

DETAILS OF PUBLICATION :

Technical Reports	<ul style="list-style-type: none"> • Action Plan of KVK 2024, • Annual Progress Report Jan 2022 to June 2023, • SAC Report 2022 • ARYA Progress Report 2022 • Achievement Report of KVK Rating & Impact Assessment • NICRA Impact of Technologies-09
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Extension Literature	1. Training of Rural Youth for Entrepreneurship Development & Employment Generation under ARYA Project- 500 Copies
TV Talk/Radio Talk	Nil

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

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

XIII. DETAILS ON HRD ACTIVITIES :

Workshop/Seminar /Symposia/Winter/Summer School Attended:

Name of Scientist	Name of Programme	Place	Duration	Date
Dr. Virendra Singh	Post Harvest Management	CHIPNET Ludhaina	03	14-16 Feb. 2023
	Zonal Workshop of KVKS	BHU Varanasi	03	30 June – 2 July 23
	Natural Farming	GBPUA&T Meerut	15	11-25 Sept. 2023
	Basmati Production for Exports	SVPUA&T, Meerut	01	24.06.23
	Quality Parameters for Agri Inputs	SVPUA&T, Meerut	01	11.08.23
	Production & Protection Technologies Of Horticulture Crops	SVPUA&T, Meerut	02	28-29 Aug. 2023
Dr. Deepak Sharma	Capacity Building Training and Review Meeting at Directorate Extension, SVPUAT Meerut	SVPUAT, Meerut	02 days	13-14, feb 2023
	Creation of Agri Business Ecosystem Through Farmer Producer Organizations by ICAR-DOGR	Online	05 days	01-05, May 2023
	Induction Programme on Agriculture Marketing” at headquarter	SVPUAT, Meerut	02 days	21-22, June 2023
	One day workshop on Basmati Export organized by APEDA	SVPUAT, Meerut	01 days	24, June 2023
	Rashtriya Mahasanghosthi-2023 on “Sahkarita me FPO” organized by Home & Sahkarita ministry GOI	Pragati Maidan, New Delhi	01 days	14, July 2023
	Extension methodology and motivational skills for Extension personnel	SVPUAT, Meerut	04 days	25-28, July 2023
	Quality parameters of Agro input	SVPUAT, Meerut	01 days	11, August 2023
	Dr. Reena	Basmati Production for Exports	SVPUA&T, Meerut	01
Agriculture Marketing		SVPUA&T, Meerut	02	21 to 22 June .23
Participatory Planning & Extension of Technology Application Activities by KVKs of UP		SVPUA&T, Meerut	03	4-6 Sept. 23
Crop Production Technology		SVPUA&T, Meerut	01	13-14.09.23
Blanded Capacity Building Programme for Stakeholders of River Ganga-Phase-II		SVPUA&T, Meerut	01	09.10.23

XIV. Case Studies/Success Stories : 02

LINKAGES

Functional linkage with different organization

The KVK has very strong linkage with different line departments and stake holders. The KVK is involved in technical backstopping of the line departments officials and regular participation in the programmes and vice versa. The linkages with stake holders are as under.

Name of Organization	Nature of Linkage
Deptt. of Agriculture	Diagnostic survey, training, gosthi/Seminar/ Farmers Fair
Deptt. of Horticulture	Participation in meeting/demonstration/training/ Farmers Fair
Cane Deptt. & Sugar industries	Gosthies & Trainings
NABARD	Technical Support to Kisan Clubs
Basmati Export Development Foundation	Awareness of rice growers for export
NHM	Soil Testing of beneficiaries, Capacity building & Nursery management
IFFCO, KRIBHCO	Trainings/Gosthi
SBI, PSB PNB & Distt. Cooperative Bank	Trainings/Gosthi & distribution of loan in the operational area
DOMR, Bharatpur Rajasthan	Demonstration/Field Day
Animal Husbandry Deptt.	Trainings & Circulation of Extn. Material
NGO	Trainings/Gosthi

1. Details of linkage with ATMA :

Programme	Nature of Linkages	No of Programmes	No of Farmers
Training of Farmers	Transfer of new Horticultural technology	12	670

2. Linkage with NHM

Programme	Nature of Linkages	No of Programmes	No of Farmers
Training of Farmers	Transfer of new Horticultural technology	02	100

3. Linkage with State Govt. (DCO & BSA)

Programme	Nature of Linkages	No of Programmes	No of Farmers
Farmers Training	Transfer of technology	02	120

Performance of instructional farm 2023 : Nil

Name of crop	Date of sowing	Date of harvesting	Area (ha)	Details of production			Amount (Rs.)	
				Variety	Type of produce	Qty.	Cost of inputs	Net income

Utilization of Training Hall facilities : Nil

Utilization of hostel facilities : Nil

FINANCIAL PERFORMANCE

Details of KVK Bank Account

S. No.	Bank account	Name of Bank	Location	Account Number
1.	With Host Institution	SBI ,SVPUA&T, MZN	Meerut	30853163857
2.	With KVK	SBI Baghra, MZN	Baghra	11730183435

Utilization of K.V.K Funds during the year 2023-24

S.N.	Heads	Budget Sanctioned (Rs. in lakh)	Actual Expd. (Rs. in lakhs)	Balance (Rs. in lakhs)
A	Recurring Items			
1	Pay and Allowance	137.00	133.34	3.66
2	Traveling Allowance	1.50	94.45	0.55
	HRD	0.20	0.10	0.10
3	Contingencies			
a	Stationery & other Expenditure for office running	3.00	2.98	0.02
b	POL/Repair of Vehicle/Tractor	1.00	0.99	0.01
c	Vocational Training			
	i) Meals for trainees	0.75	0.75	0.00
	ii) Training material	0.40	0.39	0.01
	iii) Frontline demonstration Except oilseeds & pulses	1.00	0.99	0.01
	iv) On-Farm Testing	0.25	0.24	0.01
	v) Training of Extension Functionaries	0.15	0.13	0.02
	vi) Library Maintenance	0.05	0.05	0.00
	vii) Maintenance building	0.00	0.00	0.00
	vii) General Contingency	0.00	0.00	0.00
	Total A	145.30	140.88	4.41
B	Non-Recurring Items			
1	Works (Main building)	0.00	0.00	0.00
2	Bio Metric Attendance	0.00	0.00	0.00
	Total B	0.00	0.00	0.00
	Total (A+B)	145.30	140.88	4.41

Status of Revolving Fund (Rs. in lakhs)

F.Y	Opening balance	Income	Expenditure	Closing Balance
2018-19	677907.71	657098.00	255483.54	1079522.17
2019-20	1079522.17	162010.00	156170.00	1085362.17
2020-21	1085362.17	360701.00	182054.00	1264009.17
2021-22	1264009.17	224131.00	77614.00	1410526.17
2022-23	1410526.17	173841.00	135880.00	1448487.17
*Rs. 9.00 laks Fixed Deposit ,				2348487.17

XVI Achievement of Special programmes

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

S. No.	Name of QP/Job role	Duration (hrs)	No. of Courses Organised	No. of Participants						TOTAL
				SCs/STs		Others		Total		
				Male	Female	Male	Female	Male	Female	
1	Agriculture Extension Service Provider	200	--	--	--	--	--	--	--	--
11	Beekeeper	200	01	03	--	15	02	18	02	20
16	Dairy Farmer - Entrepreneur	200	--	--	--	--	--	--	--	--
TOTAL		600	--	--	--	--	--	--	--	--

2) Activities performed under NARI programme

Activities	Number of activity	No. of farmers/beneficiaries
OFTs - Nutritional Garden (activity in no. of Unit)	--	--
OFTs - Bio-fortified Crops (activity in no. of Unit)	--	--
OFTs - Value addition (activity in no. of Unit/Enterprise)	--	--
OFTs - Other Enterprises (activity in no. of Unit/Enterprise)	--	--
(activity in no. of Unit/Enterprise)		
FLDs - Nutritional Garden (activity in no. of Unit)	10	10
FLDs - Bio-fortified Crops (activity in no. of Unit)	--	--
FLDs - Value addition (activity in no. of Unit/Enterprise)	10	10
FLD- Other Enterprises (activity in no. of Unit/Enterprise)	--	--
(activity in no. of Unit/Enterprise)		
Trainings	5	50
Extension Activities	2	39
Grand Total	27	109

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

Sample	No. of Samples in lakh	No. of Farmers in lakh	No. of Villages in lakh	Amount realized (Rs. in lakhs)	No. of Soil Health Cards issued (lakhs)
Soil	203	203	30	30450.00	203
Total					

4) Achievements under NICRA Project

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

5) Achievements under ARYA Project

Name of entrepreneurial units	No. of entrepreneurial units established	No. of Training programs organised	No. of rural youth trained		No. of youth established units	
			Male	Female	Male	Female
Mushroom Cultivation	20	02	40	--	20	--
Bee keeping	--	--	--	--	--	--
Poultry	20	01	20	--	20	--

6) NEMA (New Extension Methodologies and Approaches)

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

XVI Awards

S.No.	Name of Award received	Name of KVK/farmer	Year of Award	Date on which award received
1				

-----XXXXXXX-----