

Annual Report

January 1st, 2024 to December 31st, 2024

Krishi Vigyan Kendra, Gopalganj



Submitted to

**ICAR-Agricultural Technology Application, Research
Institute, Patna**



Directorate of Extension Education

**Dr. Rajendra Prasad Central Agriculture University, Pusa,
Samastipur-848125, Bihar**

PROFORMA FOR ANNUAL REPORT 2024 (1st January-31st December 2024)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
K.V.K, Sipaya Farm, P.O- Sipaya, Gopalganj (Bihar) Pin: 841501	6287797171		head.kvk.sipaya@rpcau.ac.in

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

Address	Telephone		E mail
	Office	FAX	
Dr. Rajendra Prasad Central Agricultural University, Bihar, Pusa (Samastipur)-848125	06274- 240226	06274- 240255	vc@rpcau.ac.in

1.3. Name of Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Anupma Kumari	-	8434383989	head.kvk.sipaya@rpcau.ac.in

1.4. Year of sanction of KVK with council order No. and date: 18.03.2006

1.5. Year of start of KVK: 2006

1.6. Staff Position (as on 31st Dec, 2024)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent/Temporary	Category (SC/ST/OBC/Others)
1	Senior Scientist& Head	Dr. Anupma Kumari	Sr. Scientist & Head	Agronomy	79800-199300 (Present basic:171400)	19.09.2024	Permanent	OBC
2	Subject Matter Specialist	Dr. Naveen Kumar	SMS	Ag. Engg.	56100-177500 (Present basic: 67000)	29.09.2018	Permanent	OBC
3	Subject Matter Specialist	Dr. Anita Gautam	SMS	Home Sc.	56100-177500 (Present basic: 67000)	18.12.2018	Permanent	SC
4	Subject Matter Specialist	Dr. Abhsihek Rana	SMS	Plant Protection (Entomology)	56100-177500 (Present basic: 61300)	28.03.2022	Permanent	Others
4	Subject Matter Specialist	Smt. Sripriya Das	SMS	Agronomy	56100-177500 (Present basic: 61300)	16.03.2022	Permanent	OBC
5	Subject Matter Specialist	Vacant	SMS	Horticulture				
6	Subject Matter Specialist	Vacant	SMS	Ag. Extension				
7	Subject Matter Specialist	Vacant	SMS	Soil Science				
8	Programme Assistant	Vacant						
9	Computer Programmer	Vacant						
10	Farm Manager	Shri Ravikant Kumar	Farm Manager	Agronomy	35400-112400 (Present basic: 43600)	08.12.2017	Permanent	OBC
11	Accountant / Superintendent	Mr. Pankaj Rai	Assistant		(Present basic: 43600)	23.11.2017	Permanent	OBC
12	Stenographer	Vacant	Stenographer					
13.	Driver	Vacant						
14.	Driver	Shri Gunjan Kumar	Resignation given but not accepted by university till date					
15.	Supporting staff	Shri Nilesh Kumar	SSS	-	18000-56900 (Present basic: 20300)	01.03.2021	Permanent	OBC
16.	Supporting staff	Vacant						

1.7. Total land with KVK (in ha)

S. No.	Item	Area (ha)	Name of infrastructure
1	Under Buildings	2.0	Administrative building, Kisan Ghar, Hostel, Godowns etc
2.	Under Demonstration Units		Azolla unit, Beekeeping, Mushroom, Vermicompost.

			Natural farming etc.
3.	Under Crops	13.0	Cultivable area (Agricultural crops)
4.	Orchard/ Agro-forestry	1.0	Cultivable area (Fruit crops)
5.	Others with details	4.0	Non cultivable area
	Total	20	

Total area should be matched with breakup

1.8. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					✓		Use	ICAR
2.	Farmers Hostel					✓		Use	ICAR
3.	Staff Quarters (4)					Repairing required		Not in use	ICAR
4.	Piggery unit								
5.	Fencing					✓		Use	University
6.	Rain Water harvesting structure								
7.	Threshing floor					✓		Use	ICAR
8.	Farm godown					✓		Use	ICAR
9.	Dairy unit								
10.	Poultry unit								
11.	Goatary unit								
12.	Mushroom Lab								
13.	Mushroom production unit								
14.	Shade net					✓		Use	NHM
15.	Soil test Lab (Mridaprikshak)								
16.	Others, Please Specify (Shade net)					✓		Use	University
17.	Others, Please Specify (Mini irrigation)					✓		Use	ICAR
18.	Others, Please Specify (Mini irrigation)					✓		Use	RF/GoB

19	Others, Please Specify (Solar tree)					✓		Use	University
20	(Polyhouse)					✓		Use	University
21	Others, Please Specify (Mother orchard)					✓		Use	University

* If not in use then since when and reason for non-use

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Jeep (Bolero)				Old vehicle has been condemned and auction is in process

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Moisture meter	2012	1200	Good	DSF, Dholi
Digital scale (cap 2kg)	2017	4100	Good	ICAR
E-scale (Cap 6 kg)	2017	1961	Good	ICAR
b. Farm machinery				
Tractor	2006	328738	Good	ICAR
M.B plough	2006	16058	Not working	
Hydraulic trailr	2006	62500	Good	
Leveller	2006	76052	Good	
Power weeder	2010	75000	Not working	Department of S/C
Sugar cane cutter planter	2011	72450	Good	Department of S/C
Square baler	2012	840000	Good	GoB
Zero Till Drill			Good	
Cultivator	2017	22000	Good	ICAR
Disc Harrow	2017	43000	Good	ICAR
c. AV Aids				
Computer & Accessories	2007	70000	Good	ICAR
Handycam DCR-DVD 710E	2009	24990	Not working	ICAR
Multimedia Projector	2009	95000	Good	ICAR
Photostat machine	2009	64000	Not working	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Avery balance	2009	39398	Not working	Department of S/C
Bag closer machine	2010	5400	Not working	DSF, Dholi
Sprayer hi Tech	2007	1250	Good	Department of S/C
Sprinkler System	2007	30,000	Not working	Department of S/C
Ridger	2007	8500	Not working	Department of S/C
Dal maker	2007	6200	Not working	Department of S/C
Hand operated fan (winnow)	2007	2850	Not working	Department of S/C
Disc Harrow	2007	43000	Not working	
9 tyne cultivator (Rigid)	2007	22000	Not working	
Rocker Sprayer (Aspee)	2008	4100	Good	Department of S/C
HDPE pipe full set PCN one	2008	30000	Not working	Department of S/C
Cultivator 9 tyne	2008	14500	Good	Department of S/C
Aspee Balo power sprayer	2009	6000	Not working	Department of S/C
Knapsack sprayer (Aspee)	2009	6000	Good	Department of S/C
Avery balance	2009	39398	Not working	Dept of S/C
Disc Plough	2010	24600	Good	Department of S/C
Disc bund former	2010	16900	Good	Department of S/C
Ridger	2010	17500	Good	Department of S/C
Power weeder	2010	75000	Good	Department of S/C
Duster	2010	7900	Not working	
Bag closer machine	2010	5200	Not working	DSF, Dholi
Bag stiching machine	2010	5400	Not working	DSF Dholi
Mobile seed processing plant	2010	970000	Not working	
Raised bed seeder cum sugarcane cutter planter	2011	72622	Not working	
Markant-55 sqrare baler	2012	840000	Not working	
Aspee Rocker sprayer	2014	6250	Good	
Cane cultivator	2015	13500	Good	
Agricultural tractor 30 DI	2019	482076	Good	ICAR
John Deree Tractor	2019	612036.84	Good	ICAR
Tractor operated Laser	2020	291200	Good	ICAR
Land leveler cultivator	2020	27776	Good	ICAR
Zero till seed cum fertilizer	2020	43120	Good	ICAR
Mini Dal mill	2020	94500	Good	ICAR
Happy Seeder	2020	158747	Good	ICAR
Multicrop Thresher	2020	128800	Good	ICAR
Reversible M.B plogh	2020	114240	Good	ICAR

Multicrop/Inclined plate	2020	99799	Good	ICAR
Self propelled reaper cum binder	2020	520000	Good	ICAR
Mainfed heavy duty Sisc plough	2021	72492	Good	ICAR
Tractor operated boom sprayer	2021	160499	Good	ICAR
Tractor towed Aro blast electrostatic	2021	761600	Good	ICAR
Power tiller	2021	212800	Good	ICAR
Tractor J.D 5305	2021	671580.31	Good	CRAP
Laser Land levellar	2021	248000	Good	CRAP
Hydraulic tractor trolley	2021	143400	Good	ICAR
Rotavator	2021	96240	Good	ICAR
Multicrop Planter	2021	77549	Good	CRAP
Tractor operated reaper cum binder	2021	342000	Good	ICAR
Happy seeder	2021	140000	Good	CRAP
Zero till seed cum fertilizer	2021	72000	Good	CRAP

2. Priority thrust areas of KVKs

S. No	Thrust area
1.	Needs to sustain crop productivity through integrated crop and field management approach
2.	Crop diversification
3.	Need to increase area under Vegetables/horticultural/medicinal crops.
4.	Establishment of employment generated agri –based enterprises like seed production/Vermi culture/nursery development/poultry and dairy.
5.	Need based seed production in seed villages to meet the requirement of the district.
6.	Needs to increase cultivation of pulse/oil seed crops which is marginal in the district.
7.	Integrated Disease and pest management
8.	Integrated Nutrient management
9.	Prevention, control and treatment of livestock Diseases
10.	Awareness on deworming and vaccination
11.	Mineral supplementation and protein incorporation in livestock feed
12.	Green fodder cultivation
13.	Promotion of natural farming
13.	Promotion of Mechanization in existing cropping system

2.a. District level data on agriculture, livestock and farming situation (2024)

Sl. No.	Item	Information
1	Major Farming system/enterprise	i. Crop based farming System a. Rice-wheat

		b. Rice-wheat-green gram c. Sugarcane-wheat ii. Dairy iii. Poultry					
	One district one product (NITI Ayog)						
2	Agro-climatic Zone	Zone-I					
3	Agro ecological situation (AES)	AES	Characteristics				
		Upland	Sandy loam soil, flat topography, no water logging, calcareous soil having free calcium carbonate 30-40%, easier in tillage operation with medium water table.				
		Medium land	Soil loam in texture, flat topography, water logging for shorter period, calcareous soil with 20-30% free calcium carbonate, Low water holding capacity & good quality ground water.				
		Low land	Deep soil, clay loam texture, flat in topography, tillage operation is difficult, high water table.				
		Diara land	Soil is sandy in texture. Highly porous with poor water holding capacity.				
4	Soil type	Soil Type	Characteristics				
		Sandy Loam	Light soil, 30-40% free calcium carbonate, 7.8-8.5 pH, low fertility status, deficient in P,K,Zn,Fe,S and B with low organic carbon				
		Loam	Medium soil, 20-30% free calcium carbonate, 8.0-8.5 pH, low to medium fertility status, deficient in P,K,Zn,Fe,B and S. Low in organic carbon				
		Clay Loam	Medium to heavy texture, <20% free calcium carbonate, <8.0pH, low to medium fertility status, deficient in P,Zn and S with low in organic carbon.				
		S.N.	Crop	Area (ha)	Production (MT)	Productivity (kg/ha)	
			7367 466540 63328				
		1. Cereals	Rice	47039	100477	2136	
			Wheat	62383	181445	2909	
			Maize	7452	28453	3818	
		3. Oilseeds	Mustard	2377	3254	1369	
		4. Cash Crop	Sugarcane	7367	466540	63328	
		5. Vegetables	Cauli flower	1600	44900	28063	
			Tomato	1380	38000	27536	
			Brinjal	1420	30500	21479	
6	Mean yearly temperature, rainfall, humidity of the district	Month	Temperature ($^{\circ}$ C)		Average Rainfall (mm)	Relative Humidity	
			Min Temp	Max Temp		Max	Min
		January, 2024	6.23	23.20	12.9	77.50	57.91
		February, 2024	11.39	26.32	13.4	67.26	46.21

		March, 2024	16.34	32.50	0.0	51.41	30.82		
		April, 2024	22.18	37.49	0.0	45.50	24.71		
		May, 2024	26.53	41.02	19.4	56.53	33.79		
		June, 2024	27.61	38.16	56.5	70.76	54.74		
		July, 2024	26.14	32.99	260.13	82.48	73.64		
		August, 2024	26.10	32.45	187.5	83.45	76.52		
		September, 2024	25.32	32.23	208.27	81.85	75.39		
		October, 2024	21.52	31.84	0.9	74.82	67.91		
		November, 2024	14.57	28.73	0.0	70.76	60.66		
		December, 2024	9.8	24.62	22.6	75.30	59.69		
7	Production of major livestock products like milk, egg, meat etc.	Category			Population (in '000)		Productivity		
<i>Cattle</i>									
Crossbred			84.0		2000 L/lactation. 10-12 L/day				
indigenous			123.5		1000 L/lactation, 4-5 L/day				
Non descriptive buffaloes (Local low yielding)			72.6						
Descriptive buffaloes			42.0						
<i>Sheep</i>									
indigenous			1.3						
Goats			216.2		10 kg meat/Goat				
<i>Pigs</i>									
indigenous			7.5						
<i>Poultry</i>									
Commercial			76.7						
			Layer		280 eggs/bird				
			Broiler		1.5-2 kg live wt. /bird				
Ducks			0.56						
<i>Fisheries</i>									
Farmer owned ponds			30 nos.		2.0 t/ha				
Reservoirs			229						
Village tanks			209						
Water spread area (ha)			997.8						
Fish Production (in '000 tons)			2113.4						
Yield (t/ha)			3.2						

2b. Details of operational area / villages (2024)

Sl. No.	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1.	Kuchaikote	Khemamtihiniya	Paddy, wheat, sugarcane, vegetables, Pulses, Oilseed, Dairy	Cereals- traditional farming, Lack of knowledge about recommended practices, losses due to insect-pest, imbalance use of fertilizer Livestock- diseases, parasites, imbalanced feeding	Crop diversification, High value agriculture, Inclusion of pulses in cropping system, skill oriented trainings for agri-based enterprises.
2.	Kuchaikote	Amwa Bijaypur	Paddy, wheat, mustard, Horticulture and vegetables	Cereals- traditional farming, Lack of knowledge about recommended practices, losses due to insect-pest, imbalance use of fertilizer Livestock- diseases, parasites, imbalanced feeding	Crop diversification, High value agriculture, Inclusion of pulses in cropping system, skill oriented trainings for agri-based enterprises. Disease diagnostic services, vaccines Treatments
3.	Kuchaikote	Narayanpur	Paddy, wheat, mustard, potato, Oilseeds, Pulses	Crop and livestock diseases and pests, monsoon dependent, imbalanced use of fertilizer, imbalanced feeding of livestock	Skill oriented trainings, Farm mechanization, addressing crops and livestock disease and pests
4.	Kuchaikote	Sipaya	Paddy, wheat, mustard, maize, vegetable, Sugarcane	Cereals-traditional farming, imbalance use of fertilizer, diseases Livestock-diseases, parasites, imbalance feeding	Crop diversification, High value agriculture, ZT, happy seeder, skill oriented trainings for agri-based enterprises.
5.	Kuchaikote	Bishunpura	Vegetable, Paddy, Wheat, Maize, Potato, Oilseeds, Pulses (Pigeon Pea)	Cereals-traditional farming, imbalance of fertilizer, diseases Livestock-diseases, parasites, imbalance feeding	IPM, IDM, INM, vaccination, deworming, balance feeding of livestock
6.	Kuchaikote	Tiwari Matihiniya	Paddy, Wheat, Oilseed, Potato	Cereals-traditional farming, imbalance of fertilizer, diseases Livestock-diseases, parasites, imbalance feeding	IPM, IDM, INM, vaccination, deworming, balance feeding of livestock
7.	Kuchaikote	Shyampur	Paddy, wheat, mustard	Cereals-traditional farming, imbalance of fertilizer, diseases Livestock-diseases, parasites, imbalance feeding	IPM, IDM, INM, vaccination, deworming, balance feeding of livestock
8.	Kuchaikote	Kaithwaliya	Paddy, wheat, mustard, lentil	Cereals-traditional farming, imbalance of fertilizer, diseases	IPM, IDM, INM, vaccination, deworming, balance feeding of livestock

				Livestock-diseases, parasites, imbalance feeding	
9.	Kuchaikote	Dubauliya	Paddy, wheat, mustard, lentil	Cereals-traditional farming, imbalance of fertilizer, diseases Livestock-diseases, parasites, imbalance feeding	IPM, IDM, INM, vaccination, deworming, balance feeding of livestock
10.	Unchkagaon	Khutwaniya	Paddy, wheat, mustard	Crop and livestock diseases and pests, monsoon dependent, imbalanced use of fertilizer, imbalanced feeding of livestock	Skill oriented trainings on mushroom, livestock, horticultural crops and cereals, addressing crops and livestock disease and pests,
11.	Gopalganj	Chaturbagha	Paddy, wheat, maize, sugarcane, mustard	Crop and livestock diseases and pests, monsoon dependent, imbalanced use of fertilizer, imbalanced feeding of livestock	Skill oriented trainings in High Value Agriculture especially horticulture, mushroom, farm mechanization, addressing crops and livestock disease and pests.
12.	Gopalganj	Baraipatti	Paddy, wheat, maize, sugarcane, mustard, potato	Crop and livestock diseases and pests, monsoon dependent, imbalanced use of fertilizer, imbalanced feeding of livestock	Skill oriented trainings in Rural crafts, embroidery, processing and value addition, horticulture, mushroom, farm mechanization, addressing crops and livestock disease and pests
13	Phulwariya	Gridhar Parsa	Paddy, wheat, maize, mustard, potato, Mushroom	Diseases and pests, unavailability of mushroom spawn, imbalanced use of fertilizer	IPM, IDM and Skill oriented trainings
14	Kateya	Kateya	Paddy, wheat, maize, mustard, beekeeping	Diseases and pests, imbalanced use of fertilizer	IPM, IDM and Skill oriented trainings
15	Hathua	Hathua	Paddy, wheat, maize, mustard, Mushroom	Diseases and pests, unavailability of mushroom spawn, imbalanced use of fertilizer	IPM, IDM and Skill oriented trainings
16	Panchdeori	Panchdeori	Paddy, wheat, maize, mustard	Diseases and pests, imbalanced use of fertilizer	IPM, IDM and Skill oriented trainings
17	Sidhwaliya	Sidhwaliya	Paddy, wheat, maize, mustard, Sugarcane	Diseases and pests, imbalanced use of fertilizer, Lack of knowledge about recommended practices	IPM, IDM and Skill oriented trainings
18	Baikunthpur	Baikunthpur	Paddy, wheat, maize, mustard, potato, Mushroom	Diseases and pests, unavailability of mushroom spawn, imbalanced use of fertilizer Lack of knowledge about recommended practices	IPM, IDM and Skill oriented trainings
19.	Vijaypur	Vijaypur	Oilseed	Promotion of oilseed crops	Complete package and practices

2c. Details of village adoption programme (2024)

Name of the villages adopted by Sr. Scientist & Head and SMS (in year 2024) for its development and action plan

Name of village	Block	Action taken for development
Khemmatihiniya (adopted by Sr. Scientist and Head)	Kuchaikote	Trainings on Dairy farming, Disease Diagnostic and Treatments, Addressing production problems in crops and livestock, CFLD, FLD
Baliwansagar (adopted by SMS Home Sc.)	Gopalganj	Data collection, Trainings, FLDs
Narayanpur (adopted by SMS, Ag. Engg.)	Gopalganj	Trainings, CFLD (Oilseed), FLDs
Kaithwaliya, Dubauliya, Khutwaniya, Binodmatihiniya, Kalamatihiniya, Tiwari Khareya, Narayanpur, Ramgarwa, Hathua (Sr. Sc & Head, SMS, Ag. Engg)	Kuchaikote, Hathua,	CFLD (oilseed and Pulses)
Bishunpura, Tiwari Matihiniya, Sipaya, Baraipatti, Khem Matihiniya (Sr. Sc & Head, SMS, Ag. Engg., SMS, Plant Protection, SMS, Crop Production)	Kuchaikote, Gopalganj, Panchdeori	Climate Resilient Agriculture Programme (CRAP)
Sipaya (adopted by SMS, Plant Protection, Entomology)	Kuchaikote	Trainings, awareness programmes, demonstrations
Khem Matihiniya (adopted by SMS, Crop Production)	Kuchaikote	Trainings, awareness programmes, demonstrations

Seed production (q)			Planting material (in Lakh)		
Target (Crop and variety)	Achievement (q)	Sold (q)	Target (crop and variety)	Achievement	Sold (number)
Wheat (DBW-187)	168.87	168.87	Bitter Gourd (Hyb)	0.00536	536
Wheat (HD-2967)	17.40	17.40	Pumpkin (Hyb)	0.00452	452
Rai (R. Suflam)	21.34	21.34	Bottle gourd (Hyb)	0.00195	195
Pea (Azad Pea-03)	3.30	3.30	Sponge Gourd (Hyb)	0.00492	492
Chickpea (GNG-2299)	11.50	11.50	Ridge gourd (Hyb)	0.00086	86
Lentil (IPL-316)	0.5	0.5	Chilli (Alva Hyb)	0.0116	1160
Pigeon Pea (R Arhar 1)	6.0	6.0	Tomato (Nayak Hyb.)	0.01204	1204
Green gram (Virat)	3.36	3.36	Brinjal (Navkiran Hyb.)	0.0127	1270
Paddy (R. Neelam)	124.4	124.4	Cauliflower(Madhuri Hyb.)	0.01365	1365
Finger Millet	19.34	19.34	Cabbage(Green Flash Hyb.)	0.01215	1215
			Capsicum(Hyb.)	0.002	200
			Broccoli (Fantasy Hyb.)	0.0119	1190
			Papaya (Red lady)	0.0106	1060
Total	376.01	376.01		0.10425	10425

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
0	0.015 (Kuroilers)	-	0.01976

* Give no. only in case of fish fingerlings

3.2 ACHIEVEMENTS ON TECHNOLOGIES ASSESSED AND REFINED (OFT)

3.2. 1 Technology Assessed by KVK (Discipline wise)

A	Technologies assessed under various crops (Cereal Crop Production)			
	Thematic areas	Number of the technologies (Technology Interventions)	No. of trials	No. of Locations
1	Integrated Nutrient Management	OFT: 01 (Technologies: 02)	10	10
2	Varietal Evaluation			
3	Integrated Pest Management			
4	Integrated Crop Management			
5	Integrated Disease Management			
6	Small Scale Income Generation Enterprises			
7	Weed Management			
8	Resource Conservation Technology			
9	Farm Machineries	OFTs: 03 (Technologies: 06)	30	15
10	Integrated Farming System			
11	Seed / Plant production			
12	Post Harvest Technology / Value addition			
13	Drudgery Reduction			
14	Storage Technique			
15	Others (Pl. specify)			
16	Cropping Systems			
17	Farm Mechanization			
18	Others			
	Total	OFTs: 04 (Technologies: 08)	40	25
B	Technologies assessed under various crops (Hort crops.)			
	Thematic areas	Number of the technologies (Technology Interventions)	No. of trials	No. of Locations
1	Integrated Nutrient Management			
2	Varietal Evaluation			
3	Integrated Pest Management	OFT: 03 (Technologies: 06)	24	15
4	Integrated Crop Management			
5	Integrated Disease Management			

6	Small Scale Income Generation Enterprises			
7	Weed Management			
8	Resource Conservation Technology			
9	Post-harvest Technology / Value addition	OFT: 01 (Technologies: 02)	10	10
10	Others if any specify			
	Total	OFTs: 04 (Technologies: 08)	34	25
C	Technologies assessed under livestock & Fisheries by KVKs			
	Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
1	Disease & Health Management			
2	Breeding management/Evaluation of Breeds			
3	Feed and Fodder management			
4	Nutrition Management			
5	Production and Management			
6	Processing and Value addition			
7	Fisheries management			
8	Others (waste, ITK etc)			
	Total			
D	Technologies assessed under miscellaneous enterprises by KVKs			
	Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
1	Drudgery reduction	OFT: 1 (Technologies: 2)	07	04
2	Entrepreneurship Development			
3	Health and nutrition			
4	Processing and value addition			
5	Energy conservation			
6	Small-scale income generation			
7	Storage techniques			
8	Household food security			
9	Organic farming			
10	Agroforestry management			
11	Mechanization			

12	Resource conservation technology			
13	Value Addition			
14	Others			
	Total	OFTs: 01 (Technologies: 02)	07	04
E	Technologies assessed under various enterprises for women empowerment			
	Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
1	Drudgery Reduction			
2	Entrepreneurship Development			
3	Health and Nutrition	OFT: 1 (Technologies: 02)	07	04
4	Value Addition			
5	Others			
	Total	OFTs: 01 (Technologies: 02)	07	04

3.2.2 OFT (All discipline)

OFT-1

- **Thematic area: RCT**
- **Problem definition/Name of OFT: Assessment of Happy seeder for wheat sowing under crop residue management**

1.	Title of On farm Trial (OFT)	Assessment of Happy seeder for wheat sowing under crop residue management
2.	Problem diagnosed	Delayed wheat sowing in conventional practice in combine harvested rice stubbles field. Similar situation prevails in low lying areas due to moisture retention. Moreover, high cost of cultivation in conventional method of wheat sowing due to tillage operation.
3.	Details of technologies selected for assessment	FP: Broadcasting (in tilled condition) TO ₁ : Sowing of wheat by Happy seeder incorporating the crop residue TO ₂ : Removal of crop residue and sowing by Zero Till drill
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	PAU Ludhiana, GBPUA&T
5.	Production system and thematic area	Farm mechanization for crop production
6.	Performance of the Technology with performance indicators	No. of effective tillers/hill, No. of grain per ear head, wheat yield, cost of cultivation and Benefit-cost ratio.
7.	Final recommendation for micro level situation	Sowing of wheat by Happy seeder incorporating the crop residue may be best option.

8.	Constraints identified and feedback for research	Low window of operation of the machine, low field capacity with conventional seed drill, the inability to operate in wet straw, the lack of straw spreaders on the combine The stubble field does not look visually appealing, lack of familiarity with the practice, custom hiring centers at a village level may promote zero tillage technology.
9.	Process of farmers participation and their reaction	Field visits, trainings

Results: Significant difference ($P < 0.05$) in no. of grains, grains weight and wheat yield were observed for technology options over farmer practices. TO1 was best in terms of yield (37.76 q/ha) and benefit-cost ratio (2.72). However, no significant difference was observed among TO1 and TO2.

Table: Assessment of Happy seeder and zero till drill on yield & economics of wheat sowing

Thematic area	Technology options with detailed treatments	Area (ha in crop & Fodder)/ Nos (in livestock)		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Proposed	Actual					
Farm mechanization	FP: Broadcasting (in tilled condition)	1	1	33.32 ^a	35214	75805.84	40591.84	2.17
	TO ₁ : Sowing of wheat by Happy seeder incorporating the crop residue			38.37 ^b	32150	87294.59	55144.59	2.72
	TO ₂ : Removal of crop residue and sowing by Zero Till drill			37.76 ^b	31784	85906.84	54122.84	2.70
CD at 5%					3.303			
SEm ±					1.123			
C.V					8.706			



Wheat sown by Zero till drill)



Sowing of wheat by Happy seeder incorporating the crop residue



Crop Cutting

OFT- 2

- **Thematic area:Post Harvest Technology**
- **Problem definition/Name of OFT: Assessment of different packaging materials on the shelf life of oyster mushroom**

1.	Title of On farm Trial (OFT)	Assessment of different packaging materials on the shelf life of oyster mushroom
2.	Problem diagnosed	Shelf life of Oyster mushroom
3.	Details of technologies selected for assessment	FP: Sun drying TO ₁ : Suitable Punnet (wash in plain water, pretreated with 0.05% KMS and dried in solar dryer) TO ₂ : Biodegradable LDPE bag (40-60 micron or 100-150 gauge) (wash in plain water, pretreated with 0.1% Citric acid and 0.05 % KMS)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	RPCAU
5.	Production system and thematic area	Post-harvest technology
6.	Performance of the Technology with performance indicators	Rehydration ratio, colour and overall acceptability
7.	Final recommendation for micro level situation	Solar drying may best option
8.	Constraints identified and feedback for research	Perishable, Less demand of oyster mushroom Less availability of low cost solar dryer
9.	Process of farmers participation and their reaction	Field visits, trainings

Results:The results demonstrated that technology option 2 (TO2) showcased superior outcomes. It achieved higher rehydration ratios of 3.73, 3.68, 3.55, and 3.50 for initial, 30 days, 60 days, and 90 days, respectively as well as better colour and overall acceptability compared to technology option 1 (TO1). Although no significant difference was observed between TO1 and TO2 in rehydration ratio, yet statistically differences in terms of color and overall acceptability when compared not only to farmer practices but also to each other. Among the options, TO2 emerged as the preferred choice in terms of overall acceptability.

Table: Assessment of different packaging materials on the shelf life of oyster mushroom

Thematic area	Technology options with detailed treatments	Area (ha in crop & Fodder)/ Nos (in livestock)		Rehydration Ratio				Colour				Overall acceptability			
		Proposed	Actual	Initial	30 days	60 days	90 days	Initial	30 days	60 days	90 days	Initial	30 days	60 days	90 days
Post-harvest technology	FP: Sun drying FP: Sun drying	0.4	0.4	2.83 ^b	2.60 ^b	2.30 ^b	2.19 ^b	6.1 ^c	6.0 ^c	5.8 ^c	5.6 ^c	6.3 ^c	6.1 ^c	5.6 ^c	5.2 ^c
	TO ₁ : Suitable Punnet (wash in plain water, pretreated with 0.05% KMS and dried in solar dryer)			3.64 ^a	3.60 ^a	3.52 ^a	3.42 ^a	7.2 ^b	7.0 ^b	6.7 ^b	6.6 ^b	7.2 ^b	6.7 ^b	6.6 ^b	6.4 ^b
	TO ₂ : Biodegradable LDPE bag (40-60 micron or 100-150 gauge) (wash in plain water, pretreated with 0.1% Citric acid and 0.05 % KMS)			3.73 ^a	3.68 ^a	3.55 ^a	3.50 ^a	8.5 ^a	8.4 ^a	8.1 ^a	7.7 ^a	8.5 ^a	8.3 ^a	8.1 ^a	7.7 ^a
SEm ±				0.29	0.35	0.41	0.42	0.66	0.64	0.67	0.62	0.63	0.64	0.70	0.71
CD at 5%				0.240	0.176	0.273	0.219	0.299	0.360	0.410	0.264	0.227	0.360	0.346	0.372



Oyster Mushroom Cultivation



Sun drying using low cost solar dryer

OFT 3:

- **Thematic area: Farm Mechanization**
- **Problem definition/Name of OFT: Assessment of different planting techniques of Maize**

1.	Title of On farm Trial (OFT)	Assessment of different planting techniques of Maize
2.	Problem diagnosed	Manual Seeding, Drudgery in operation, Labour intensive operation, Shortage of labour
3.	Details of technologies selected for assessment	FP-Manual Planting T1- Manual Dibbler (Vertical) T2- Manual Rotary Dibbler
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CIAE Bhopal
5.	Production system and thematic area	Farm Mechanization
6.	Performance of the Technology with performance indicators	Technical indicator (Labor saving, Field Capacity, Germination %, Heart Rate, BP, Energy expenditure rate (kJ/min)) Economic indicator (Yield, B:C) Farmer perception
7.	Final recommendation for micro level situation	-
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Field visits, trainings

Results: awaited



OFT 4:

- **Thematic area: Farm Mechanization**
- **Problem definition/Name of OFT: Assessment of wheat sowing machinery**

1.	Title of On farm Trial (OFT)	Assessment of wheat sowing machinery
2.	Problem diagnosed	Manual Seeding, Drudgery in operation, Labour intensive operation, Shortage of labour
3.	Details of technologies selected for assessment	FP-Manual wheat sowing T1- Sowing of wheat by tractor-operated Happy seeder T2- Sowing of wheat by tractor-operated Super seeder
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	PAU Ludhiana, Agriculture machinery manufacturers, Punjab
5.	Production system and thematic area	Farm Mechanization
6.	Performance of the Technology with performance indicators	Technical parameters-Plant population (no/m ²), growth attributes, fuel consumption, Field capacity, field efficiency Economics parameters-Crop Yield, Cost of operation, net return, gross return, and B: C ratio Farmers perception
7.	Final recommendation for micro level situation	-
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Field visits, trainings

Results: awaited

OFT-5

- **Thematic area: Pest Management**
- **Problem definition/Name of OFT: Assessment of bio-intensive management practices for major pests in tomato**

1.	Title of On farm Trial (OFT)	Assessment of bio-intensive management practices for major pests in tomato
2.	Problem diagnosed	Tomato crop is attacked by various pests at different stages
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<p><i>Farmers Practice (FP):</i> Use of chemical pesticides (Novaluron 05.25 % + Indoxacarb 04.50 % SC @ 1.5 ml/lt: for fruit borer and Imidacloprid 17.8 SL @ 1ml/2lt: for sucking pests)</p> <p><i>Technology option-I (TO-I):</i></p> <ul style="list-style-type: none"> • Application of Bio consortia of IIHR (Soil application) • Seed treatment by <i>P. fluorescens</i>@10 g/kg • Nursery bed treatment by <i>P. fluorescens</i>@20 g/ m² • Soil application <i>P. fluorescens</i> @5 kg/ha mixed with 500 kg vermi-compost/ha at 30 days after transplanting • Spray of HNPV @ 250 LE /ha <p><i>Technology option-II (TO-II)</i></p> <ul style="list-style-type: none"> • Soil application of Bio consortia of IARI • Seed treatment by <i>Trichoderma viridae</i> @10 g/kg • Nursery bed treatment by <i>Trichoderma viridae</i> @50 g/ m² • Soil application <i>Trichoderma viridae</i> @5 kg/ha mixed with 500 kg vermi-compost/ha at 30 days after transplanting • Spray of HNPV@ 250 LE /ha
4.	Source of Technology (ICAR/ AICRP/SAU)	-
5.	Production system and thematic area	Integrated Pest Management
6.	Performance of the Technology with performance indicators	Fruit infestation (%), Disease incidence (%), Pest population, Yield, B:C
7.	Final recommendation for micro level situation	TO-I and TO-II can be used against tomato fruit borer. TO-II involving <i>T. viridae</i> as a bioagent against fungus can be utilized against late blight of tomato. For sucking pests' complex, systemic pesticide i.e. Imidacloprid 17.8 SL can be utilized.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Field visits, trainings, demonstrations

Table Efficacy of bio-intensive management practices against major pests of tomato

Technology options	Fruit borer (<i>H. armigera</i>)					Sucking pests (aphids & whiteflies)				Late blight				
	Fruit infestation (%)					No. of individuals/plant				Disease incidence (%)				
	6 DAS*	12 DAS	18 DAS	Mean	% reduction over FP	2 DAS	4 DAS	6 DAS	Mean	45 DAP**	65 DAP	85 DAP	Mean	% reduction over FP
Farmers Practice (FP)	20.29 (4.61) ^a	18.95 (4.45) ^a	21.83 (4.78) ^a	20.36 (4.61) ^a	-	47.89 (6.99) ^a	45.33 (6.80) ^a	47.89 (6.99) ^a	47.04 (6.93) ^a	12.96 (3.72) ^a	14.35 (3.91) ^a	18.98 (4.45) ^a	15.43 (4.03) ^a	-
Technology option-I (TO-I)	15.36 (4.04) ^b	13.80 (3.83) ^b	14.27 (3.90) ^b	14.48 (3.92) ^b	28.88	70.67 (8.46) ^b	75.67 (8.75) ^b	76.22 (8.79) ^b	74.19 (8.67) ^b	9.49 (3.21) ^b	12.96 (3.72) ^a	15.51 (4.04) ^{ab}	12.65 (3.66) ^{ab}	18.02
Technology option-II (TO-II)	12.92 (3.72) ^c	12.33 (3.65) ^b	13.17 (3.76) ^b	12.81 (3.71) ^b	37.08	68.00 (8.29) ^b	72.00 (8.53) ^b	80.78 (9.04) ^c	73.59 (8.62) ^b	8.10 (2.99) ^b	9.49 (3.22) ^b	13.89 (3.84) ^b	10.49 (3.35) ^b	32.02
SEm ±				0.05					0.09				0.10	
CD (P =0.05)				(0.15)					(0.27)				(0.32)	

Figures in parentheses are square root transformed values

*Days after spray; ** Days after planting

#No specific spray was given for sucking pests in TO-I & TO-II; but data were recorded simply following the same trend as in case of FP where insecticidal spray was given by the farmers

Table Economic analysis

Thematic area	Technology options with detailed treatments	Area (ha)		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross Income (Rs./ha)	Net Income (Rs./ha)	B:C ratio
		Proposed	Actual					
Integrated Pest Management	Farmers Practice (FP)	0.4	0.4	188.97 (13.77) ^b	46000	188970	142970	4.10
	Technology option-I (TO-I)			250.88 (15.87) ^a	52500	250880	198380	4.78
	Technology option-II (TO-II)			262.04 (16.21) ^a	54500	262040	207540	4.81
	CD (P =0.05)			(0.55)				

Tomato sale rate= Rs. 1000/q

OFT-6

- **Thematic area: Pest Management**
- **Problem definition/Name of OFT: Integrated Pest Management of litchi fruit borer (*Conopomorpha sinensis*)**

1.	Title of On farm Trial (OFT)	Integrated Pest Management of litchi fruit borer (<i>Conopomorpha sinensis</i>)
2.	Problem diagnosed	Pest infestation leads to fruit drop and poor quality of fruit
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<p><i>Farmers Practice (FP)</i>: untreated or spray of any insecticide as per suggestion of other farmer or input dealers.</p> <p><i>Technology option-I (TO-I)</i>:</p> <ul style="list-style-type: none"> • Two sprays of systemic insecticide viz., Imidacloprid 17.8 SL @0.5-0.7 ml/lit during September at 15 days interval on emerging shoots. • Spray of NSKE before flowering to avoid egg laying. • Spray of Novaluron 10 EC @1.5 ml/lit at clove size. • Spray of Emamectin Benzoate 5 SG (0.4g/l) during aril (pulp) development stage. • Last spray of Novaluron 10 EC @1.5 ml/l at about 10 days before expected fruit harvesting. <p><i>Technology option-II (TO-II)</i>:</p> <ul style="list-style-type: none"> • Deep ploughing of orchard twice a year (just after fruit harvest and in the month of November / December) • Pruning and destruction of affected twigs twice a year (at fruit harvest stage and at new flush stage i.e., September / October) • Soil application of 4 kg Castor cake+1 lit NSKE/tree in first fortnight of July • Spraying of Spinosad 45 SC at new flush stage (September / October) and at fruit colour break stage (Last week of April).
4.	Source of Technology (ICAR/ AICRP/SAU)	-
5.	Production system and thematic area	Fruit production; Pest Management
6.	Performance indicators	Fruit infestation (%), Yield, B:C
7.	Final recommendation for micro level situation	TO-I can be adopted by the farmers for timely application of different practices against litchi fruit borer. In TO-I, different pesticides were applied during different crop growth stages such as flowering stage (neem application), clove size stage (Novaluron 10 EC @1.5 ml/lit), aril development stage (Emamectin Benzoate 5 SG @0.4g/l) and 10 days before harvest (Novaluron 10 EC @1.5 ml/l) which may be the reason of its superiority among other technologies where timely application of practices was not followed.17.8 SL can be utilized.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation	Field visits, trainings, demonstrations

Table Effect of different management practices against litchi fruit infestation and economic analysis of litchi

Technology options	Fruit borer infestation (%)				
	Early stage	Mid stage	Harvest stage	Mean	Reduction in infestation over FP (%)
Farmers Practice (FP)	8.48 (3.08) ^a	25.15 (5.11) ^a	30.70 (5.62) ^a	21.44 (4.73) ^a	-
Technology option-I (TO-I)	3.02 (1.99) ^c	11.40 (3.52) ^c	15.31 (4.09) ^c	9.91 (3.33) ^c	53.78
Technology option-II (TO-II)	5.08 (2.44) ^b	13.32 (3.78) ^b	20.80 (4.67) ^b	13.07 (3.75) ^b	39.04
CD (P =0.05)	0.10	0.08	0.06	0.04	

Figures in parentheses are square root transformed values

Litchi sale rate= Rs. 4000/q

Table Economic analysis

Thematic area	Technology options with detailed treatments	Area (ha)		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross Income (Rs./ha)	Net Income (Rs./ha)	B:C ratio
		Proposed	Actual					
Integrated Pest Management	Farmers Practice (FP)	0.4	0.4	60.13 (7.82)	62000	240520	178520	3.87
	Technology option-I (TO-I)			77.25 (8.85)	68000	309000	241000	4.54
	Technology option-II (TO-II)			70.50 (8.45)	65000	282000	217000	4.33
	CD (P =0.05)							

OFT-7

- **Thematic area: Disease Management**
- **Problem definition/Name of OFT: Management of brown spot disease of paddy**

1.	Title of On farm Trial (OFT)	Management of brown spot disease of paddy
2.	Problem diagnosed	Disease caused huge yield losses
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<i>Farmers Practice (FP):</i> Spray of carbendazim 50 WP @ 2g/lt <i>Technology option-I (TO-I):</i> <ul style="list-style-type: none"> • Seed treatment with Trichoderma sp. @5 g/ kg seed • Two sprays of Tebuconazole 50%+ Trifloxystrobin 25% WG @ 2 ml/lt at 15 days interval. <i>Technology option-II (TO-II):</i> <ul style="list-style-type: none"> • Seed treatment with carbendazim 50 WP @ 2g/Kg seed • Need based sprays of chlorothalonil 75 WP @ 2g/lt at disease initiation
4.	Source of Technology (ICAR/ AICRP/SAU)	To-I: ICAR-National Rice Research Institute, Cuttack To-II: ICAR-Indian Institute of Rice Research, Hyderabad
5.	Production system and thematic area	Disease Management
6.	Performance indicators	Disease incidence (%), Yield, B:C
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation	Field visits, trainings, demonstrations

Results: Awaited

OFT-8

- **Thematic area: Drudgery Reduction**
- **Problem definition/Name of OFT: Evaluation of sugarcane stripper in drudgery reduction**

1.	Title of On farm Trial (OFT)	Evaluation of sugarcane stripper in drudgery reduction
2.	Problem diagnosed	Injuries to workers in sugarcane stripping operation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<i>Farmers Practice (FP)</i> : People use local made sickles for stripping operation often causing injury <i>Technology option-I (TO-I)</i> : Sugarcane stripper (IISR, Lucknow) <i>Technology option-II (TO-II)</i> : Sugarcane detrassing tool (ICAR- Sugarcane breeding institute Coimbatore)
4.	Source of Technology (ICAR/ AICRP/SAU)	IISR, Lucknow and ICAR-Sugarcane breeding institute, Coimbatore
5.	Production system and thematic area	Drudgery reduction
6.	Performance indicators	Time, Percentage in injury reduction
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation	Field visits, trainings

Table Evaluation of sugarcane stripper in drudgery reduction

Thematic area	Technology options with detailed treatments	Area (ha)		Amount (Q)	Gross Cost	Gross Return	Incidence rate/person/day (6hr.)	B:C ratio
		Proposed	Actual					
Drudgery reduction	Farmers Practice (FP)	0.07 Acre	0.07 Acre	14	100	3850	12	38.5
	Technology option-I (TO-I)	0.16 Acre	0.16 Acre	31.5	150	8662.5	5	57.7
	Technology option-II (TO-II)	0.20 Acre	0.20 Acre	38.5	570	10587.5	0	18.5

OFT-9

- **Thematic area: Milk adulteration**
- **Problem definition/Name of OFT: Assessment of adulteration in milk used by people from different sources.**

1.	Title of On farm Trial (OFT)	Assessment of adulteration in milk used by people from different sources.
2.	Problem diagnosed	Adulterants for duping on quality milk; adulterants cause health risks
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<i>Farmers Practice (FP)</i> : Tests for adulterants not practiced by the consumers <i>Technology option-I (TO-I)</i> : Adulterant detection kit (NDDDB, Anand) <i>Technology option-II (TO-II)</i> : Adulterant detection kit (NDRI, Karnal)

4.	Source of Technology (ICAR/ AICRP/SAU)	NDDB, Anand and NDRI, Karnal
5.	Production system and thematic area	Production of quality animal product
6.	Performance indicators	Pre-assessment of knowledge, attitude and practice of farmwomen, interventions, post assessment of knowledge, attitude and practice B: C ratio
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation	Field visits, trainings

Table. Assessment of Knowledge, Attitude of respondents after intervention.

Thematic area	Technology options with detailed treatments	Low	Medium	High	Mean Score±SD
Production of quality animal product	Farmers Practice (FP)	7	0	0	0
	Technology option-I (TO-I)	0	1	6	6.8±0.89
	Technology option-II (TO-II)	0	2	5	6.1±1.45

Low: Score gain by respondents (0-10) on the basis of questionnaire.

Medium: Score gain by respondents (11-20) on the basis of questionnaire.

High: Score gain by respondents (21-30) on the basis of questionnaire.

OFT-10

- **Thematic area: Poultry Production**
- **Problem definition/Name of OFT: Low cost Backyard Poultry**

1.	Title of On farm Trial (OFT)	Low cost Backyard Poultry
2.	Problem diagnosed	Proper body weight not achieved in backyard poultry
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<i>Farmers Practice (FP):</i> Scavenging in backyard poultry <i>TO-I:</i> 30 grams maize and 10 grams mustard cakes with scavenging /bird <i>TO-II:</i> 30 grams moringa dry leaves and 10 grams earthworms with scavenging/bird
4.	Source of Technology (ICAR/ AICRP/SAU)	Directorate of Poultry, Hyderabad
5.	Production system and thematic area	Extensive system and poultry production
6.	Performance indicators	Pre-assessment of knowledge, attitude and practice of farmwomen, interventions, post assessment of knowledge, attitude and practice; B: C ratio
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation	Field visits, trainings

Result: Supplementation of maize and mustard cake (30 grams and 10 grams respectively daily per bird) or dry moringa leaves and earthworm (30 grams and 10 grams respectively daily per bird) performed better than farmers practice.

Table: Live Body Weight (grams)

T.O.	1 st wk	2 nd wk	3 rd wk	4 th wk	5 th wk	6 th wk
F.P.	85.0 ^a	186.2 ^a	336.6 ^a	537.6 ^a	750.8 ^a	1003.0 ^a
T.O. 1	100.4 ^b	220.8 ^b	412.8 ^b	663.2 ^b	938.2 ^b	1209.8 ^b
T.O. 2	98.8 ^b	221.0 ^b	411.4 ^b	687.4 ^b	985.0 ^b	1279.2 ^b
SEm	0.22	0.33	0.46	0.53	0.56	0.63
CD	0.64	0.95	1.35	1.54	1.64	1.85

Table: Feed Consumption (grams)

T.O.	1 st wk	2 nd wk	3 rd wk	4 th wk	5 th wk	6 th wk
F.P.	82.9 ^a	1085.9 ^a	1168.8 ^a	2254.7 ^a	750.8 ^a	1003.0 ^a
T.O. 1	85.0 ^b	1294.8 ^b	1379.8 ^b	2674.6 ^b	938.2 ^b	1209.8 ^b
T.O. 2	99.2 ^b	1378.4 ^b	1477.6 ^b	2856.0 ^b	985.0 ^b	1279.2 ^b
SEm	1.85	0.44	1.86	2.66	3.26	4.21
CD	0.15	0.15	0.64	0.91	1.12	1.44

Table: Feed Conversion Ratio

T.O.	1 st week	2 nd week	3 rd wk	4 th wk	5 th wk	6 th wk
F.P.	0.97	1.38	1.67	1.94	2.17	2.27
T.O. 1	0.86	1.22	1.42	1.67	1.84	1.95
T.O. 2	1.02	1.37	1.54	1.69	1.80	1.96



OFT-11

- **Thematic area: Nutrient management**
- **Problem definition/Name of OFT: Assessment of use efficiency of Nano DAP in Wheat**

1.	Title of On farm Trial (OFT)	Assessment of use efficiency of Nano DAP in Wheat
2.	Problem diagnosed	Low use efficiency, higher price and lesser availability of phosphatic fertilisers (DAP) during sowing time
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<i>Farmers Practice (FP): FP- RDN: N:P₂O₅:K₂O (120:60:40) Kg/ha</i> <i>Technology option-I (TO-I): TO1- 50% P as DAP at basal , 100%N,K+ Seed treatment with Nano DAP @ 5ml/kg seed + 1st Spray with Nano DAP @ 4ml/L water at tillering stage + 2nd Spray with Nano DAP @ 4ml/L at panicle initiation stage</i> <i>Technology option-II (TO-II): 75% P as DAP at basal, 100% N, K + Seed treatment with Nano DAP @ 5ml/kg seed + Spray with Nano DAP @ 4ml/L water at tillering stage</i>
4.	Source of Technology (ICAR/ AICRP/SAU)	ICAR-Research Complex for Eastern Region, Patna, Bihar (2022)
5.	Production system and thematic area	Nutrient management
6.	Performance indicators	Soil parameter before and after sowing (pH, EC, OC, Available N, P, K), Growth attributes (No. of effective tillers/m ²), Yield attributes [Panicle weight (g), Grains/panicle, test weight(g)], Yield, Economical indicator (Cost of cultivation, Gross return, Net return, B:C ratio)
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation	Field visits, trainings

Results: Awaited



3.3 ACHIEVEMENTS OF FRONTLINE DEMONSTRATIONS (FLD)

A. Overall achievements of FLDs conducted during the year 2024

S.No	Crop category	No. of FLD	Area (ha)/(No)	No of beneficiaries	Yield in Demo (q/ha)	Yield in check (q/ha)
	Cereals	02	5.2	33		
	Oil Seed					
	Pulses					
	Horticulture Crops (vegetables)	02	1.9	111		
	Other crops (Sugarcane)	01	1.0	10		
	Hybrid crop					
	Livestock	01	1500 (No)	52		
	Fisheries					
	Fodder	04	6.0	49		
	Women empowerment					
	Farm Machinery	01	0.4	10		
	Apiculture	02	34 (No)	10		
	Post harvest grain storage	01	25 (No.)	25		
	Grand Total	14	14.5/ (1559)	300		

B. Details of FLDs conducted during the year 2024

1. Cereals

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Maize	Pest management	Emamectin benzoate 5SG	08	02	45.63	40.25	13.37	55000	95367	40367	1.74	52000	84123	32123	1.62
Wheat	Biofortified wheat	Biofortified wheat seed	25	3.2	Results awaited										
Total			33	5.2											

2. Oilseeds (NA)

3. Pulses (NA)

4. Horticultural crops (separately Fruit, Vegetables, Flower, Medicinal and aromatics, etc.)

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Tomato	Pest management	Thiamethoxam 25 WG	11	0.4	223.5	201.3	15.92	46000	223500	177500	4.86	43000	201300	158300	4.68
Vegetable seeds (kits)	Food Security	Improved variety of seeds	100	1.5	7 Kg/day	5 Kg/day	40	150	1400	1150	9.3	125	650	450	5.2
	Total		111	1.9											

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

** BCR= GROSS RETURN/GROSS COST

5. Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% 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	Gross Cost	Gross Return	Net Return	** BCR
Sugarcane	Farm Mechanization	Sugarcane Bud cutter	10	1	870	780	11.5			152900	304500	151600	1.99	168600	273000	104400	1.62
Sorghum	Fodder production	UPMC-503	18	2.0	Result Awaited												
Oats	Fodder production	UPO-212	17	2.0													
Berseem	Fodder Crops	Mescavi	14	2.0													
	Total		59	7													

6. Demonstration details on crop hybrid varieties (NA)

7. Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	
Buffalo																	
Poultry (SCSP)	Poultry Production	Kuroilers	52	1500	2.2 kg Live wt.	1.7 kg Live wt.	29.41	-	-	Rs. 175/bird	Rs. 380/bird	Rs.205/bird	2.17	Rs. 165/bird	Rs.310/bird	Rs.145/bird	1.88

Rabbitry																	
Piggery																	
Sheep and goat																	
Duckery																	
Others (Pl. specify)																	
Total																	

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

** BCR= GROSS RETURN/GROSS COST

8. Fisheries (NA)

9. Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit				
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Oyster mushroom																	
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture	Honeybee boxes and other equipments	05	14	Results awaited													
	Honeybee boxes and other equipments	05	20														
Post harvest grain storage	Hermatic bags	25	25														
Total		35	59														

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

** BCR= GROSS RETURN/GROSS COST

10. Women empowerment (NA)

11. Farm implements and machinery

Category	No. of FLDs	Name of the implement	Crop	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)	Cost reduction (Rs./ha or Rs./Unit)
						Demonstration	Check			
Sowing and planting tools and machineries										
Total Sowing and planting Machineries										
Intercultural operation tools and machineries	10	Double wheel Hoe	Chickpea	10	0.4	165.8 m ² /man-h	103.6 m ² /man-h	8.09 % (Heart rate)	27 man-days/ha	Rs 9450/ha
Irrigation management tools and machineries										
Plant protection tools and machineries										
Harvesting tools and machineries										
Postharvest processing tools and machineries										
Total mechanization tools and machineries										
Others										
Total of Others										

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

** BCR= GROSS RETURN/GROSS COST

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	February, 2024	02	30	
		March, 2024	01	25	
		May, 2024	01	20	
		August, 2024	02	15	
		Novemebr, 2024	02	25	
		December, 2024	02	30	
		2.	Farmers Training	January,.2024	
February, 2024	01			14	
April, 2024	01			37	
May, 2024	04			100	
July, 2024	01			18	
August, 2024	01			06	
Novemebr, 2024	03			130	
December, 2024	02			30	
3.	Media coverage				
4.	Training for extension functionaries				

Technical Feedback on the demonstrated technologies (if any)

Sl. No	Crop	Feed Back

		(Rs/ha)	(Rs/ha)	(Rs/ha)		(Rs/ha)	(Rs/ha)	(Rs/ha)	
01	Name of Variety: RH 761 Technology Demonstrated: <i>Seed rate:</i> 5 kg/ha , Line sowing <i>Seed treatment</i> with Phosphate Solubilizing Bacteria (PSB) and Carbendazim @ 2 gram/kg <i>Micronutrient:</i> Zinc 33% @18 kg/ha and Sulphur 90 % @ 20 kg/ha <i>Fertilizer application</i> as soil test result: 80:40:40:20 <i>Weed management:</i> Pendimethalin 30% EC @ 2.5 litre/ha <i>Plant protection:</i> Imidacloprid 17.8 sl @ 250 ml/ha	26100	56462	30362	2.16	26750	73575	73575	2.75

3. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
01	Rapeseed and Mustard, RH-761	81100	650	56.0	5	10	Family needS	28

B. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
01	Name of Variety: RH 761 Technology Demonstrated: <i>Seed rate:</i> 5 kg/ha , Line sowing <i>Seed treatment</i> with Phosphate Solubilizing Bacteria (PSB) and Carbendazim @ 2 gram/kg <i>Micronutrient:</i> Zinc 33% @18 kg/ha and Sulphur 90 % @ 20 kg/ha <i>Fertilizer application</i> as soil test result: 80:40:40:20	Yes	Good	60 %	Plant height is more.	52 %	NA

	<i>Weed management:</i> Pendimethalin 30% EC @ 2.5 litre/ha <i>Plant protection:</i> Imidacloprid 17.8 sl @ 250 ml/ha						
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C. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
High plant height	Good in timely sown condition	Better	Better yield than local check, Better yield in timely sowing condition, High plant height with more silique.

D. Extension activities under FLD conducted

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
01	Training	17.10.2023, Training Hall of KVK Gopalganj	25
		18.10.2023, Training Hall of KVK Gopalganj	25
		28.10.2023, Sihorwa, Hathua , Gopalganj	25
02	Field Visit	03.02.2024, Baliwansagar, Narayanpur	2
03	Field Day	12.03.2024, Baliwansagar	22
		14.03.2024, Kaithwaliya	25
		20.03.2024, Shihorwa	22

E. Sequential good quality photographs (as per crop stages i.e. growth & development)



Growth Stage



Pod Formation stage



Flowering stage



Maturity stage

F. Farmers' training photographs



Training



Training cum critical inputs distribution



Training



Training

G. Quality Action Photographs of field visits/field days and technology demonstrated



Field Day



Field Visit



Field Day



Crop Cutting

H. Details of budget utilization

Crop (Provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input	247863	245572	2291
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field Day)			
	iv) Publication of literature			
	Total	247863	245572	2291

(Oilseeds- Rabi 24--25)- Ongoing

1. Technical Parameters

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.t.			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
01	Rapeseed and Mustard	Varuna				Name of Variety: Rajendra Suflam-1 Technology Demonstrated: <i>Seed rate:</i> 5 kg/ha <i>Sowing type:</i> Line sowing <i>Seed treatment:</i> Phosphate Solubilizing Bacteria (PSB) and Carbendazim @ 2 gram/kg <i>Micronutrient:</i> Zinc 33% @12.5 kg/ha and Sulphur 90 % @ 25 kg/ha Fertilizer application as soil test result: 80:40:40:20 <i>Weed management:</i> Pendimethalin 30% EC @ 3litre/ha <i>Plant protection :</i> Imidacloprid 17.8 sl @ 250 ml/ha	750	250							

2. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
01	Name of Variety: Rajendra Suflam-1	Awaited				Awaited			

<p>Technogy Demonstrated: <i>Seed rate:</i> 5 kg/ha <i>Sowing type:</i> Line sowing <i>Seed treatment:</i> Phosphate Solubilizing Bacteria (PSB) and Carbendazim @ 2 gram/kg <i>Micronutrient:</i> Zinc 33% @12.5 kg/ha and Sulphur 90 % @ 25 kg/ha <i>Fertilizer application as soil test result:</i> 80:40:40:20 <i>Weed management:</i> Pendimethalin 30% EC @ 3litre/ha <i>Plant protection:</i> Imidacloprid 17.8 sl @ 250 ml/ha</p>		
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3. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
01	Rapeseed and Mustard, Rajendra Suflam-1	Awaited						

A. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
01	Name of Variety: Rajendra Suflam-1 Technogy Demonstrated: <i>Seed rate:</i> 5 kg/ha	Awaited					

<p><i>Sowing type:</i> Line sowing <i>Seed treatment:</i> Phosphate Solubilizing Bacteria (PSB) and Carbendazim @ 2 gram/kg <i>Micronutrient:</i> Zinc 33% @12.5 kg/ha and Sulphur 90 % @ 25 kg/ha Fertilizer application as soil test result: 80:40:40:20 <i>Weed management:</i> Pendimethalin 30% EC @ 3litre/ha <i>Plant protection:</i> Imidacloprid 17.8 sl @ 250 ml/ha</p>	
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B. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback

C. Extension activities under FLD conducted

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
01	Training	17.10.2024, Training hall of KVK	40
		18.10.2024, Training hall of KVK	40
		19.10.2024, Training hall of KVK	40
		21.10.2024, Training hall of KVK	40
		22.10.2024, Training hall of KVK	40
		23.10.2024, Training hall of KVK	40
		25.10.2024, Training hall of KVK	41
		16.10.2024, Training hall of KVK	40
		28.10.2024, Banjariya, Sidhwaliya	31
		01.11.2024, Training hall of KVK	40
		02.11.2024, Training hall of KVK	50
		04.11.2024, Aghaila Mishra, Vijayipur	69

		05.11.2024, Training hall of KVK	40
		18.11.2024, Training hall of KVK	42
		19.11.2024, Shihorwa, Hathua	60
		25.11.2024, Training hall of KVK	40
02	Field day	20.01.2025, Bhami Tola	5
		20.01.2025, Narayanpur	25
		20.01.2025, Domain Banjariya	5
		25.01.2025, Ramgarhwa	15
		04.02.2025, Banjariya	30

D. Sequential good quality photographs (as per crop stages i.e. growth & development)



Growth Stage



Flowering stage



Pod Formation stage



Maturity stage

E. Farmers' training photographs



Training



Critical Input Distribution



Training



Critical Input Distribution



Training



Training



Training



Critical Input Distribution



Critical Input Distribution



Training



Critical Input Distribution



Critical Input Distribution

F. Quality Action Photographs of field visits/field days and technology demonstrated



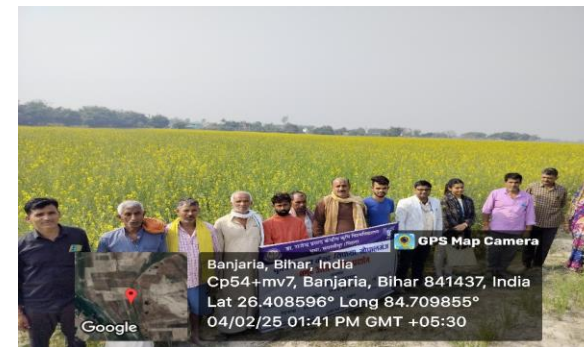
Field Visit



Field Visit



Field Visit



Field Day

G. Details of budget utilization

Crop (Provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input	7,09,375.00	13,58,513.00	-6,49,.138
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field Day)			
	iv) Publication of literature			
	Total	7,09,375.00	13,58,513.00	-6,49,.138

ACHIEVEMENTS ON TRAINING /CAPACITY BUILDING PROGRAMMES

(Mandated KVK trainings/sponsored training /FLD training programmes):

A. Farmers and farm women including the sponsored training programme (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management	01	22	3	25	0	0	0	0	0	0	22	3	25
Fodder production													
Production of organic inputs													
Others, (Grain storage)	01	0	0	0	21	4	25	0	0	0	21	4	25
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Rabbit Management													
Disease Management	2	46	4	50	1	0	1	0	0	0	47	4	51
Feed management													
Production of quality animal products													
Others, if any (Fodder production)	3	61	9	70	0	0	0	0	0	0	81	9	90
Others, if any (CRA)	3	118	32	150	0	0	0	0	0	0	188	32	220
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet	4	3	64	67	1	40	42	0	0	0	4	104	108
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition	7	2	38	40	29	122	151	0	0	0	31	160	191
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts	1	0	23	23	0	2	2	0	0	0	0	25	25
Capacity building													
Women and child care													
Others, if any (Nutri Garden)	2	0	29	29	0	26	26	0	0	0	0	55	55
Others, if any (Sugarcane detraser)	1	1	5	6	2	17	19	0	0	0	3	22	25
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	2	51	8	59	2	0	5	0	0	0	53	8	61
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements	6	91	39	130	4	7	11	0	0	0	95	46	141
Small scale processing and value addition													
Post-Harvest Technology	4	87	14	100	3	2	5	0	0	0	90	16	106
Others, if any (Mechanical weed management)	2	21	17	38	3	9	12	0	0	0	24	26	50
Others, if any (RCT)	2	48	1	49	1	0	1	0	0	0	49	1	50
Others, if any (Laser Land Leveling, Storage structures)	2	44	5	49	1	0	1	0	0	0	45	5	50
Others, if any (CRA: Farm mechanization, crop production & protection)	23	658	320	978	22	27	49	0	0	0	680	347	1027

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
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	01	13	5	18	2	5	7	0	0	0	15	10	25
Tailoring and Stitching													
Rural Crafts	01	0	28	28	0	24	24	0	0	0	0	52	52
Other	01	0	11	11	0	17	17	0	0	0	0	28	28
TOTAL	14	213	99	313	35	64	100	0	0	0	248	163	411

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops	1	142	18	160	38	2	40	0	0	0	180	20	200
Value addition													
Integrated Pest Management	1	142	18	160	38	2	40	0	0	0	180	20	200
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	2	143	18	181	59	2	44	4	0	0	180	20	225
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													
Others (Safe use of pesticides)	1	0	25	25	0	0	0	0	0	0	0	25	25
TOTAL	5	427	79	526	135	6	124	4	0	0	540	85	650

Please furnish the details of training programmes as Annexure in the proforma given below

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants (others)			Number of SC/ST			Over all participants		
					M	F	T	M	F	T	M	F	T
Plant Protection													
Plant Protection	PF	Insect-pests of sugarcane and their management	1	On	21	0	21	0	0	0	21	0	21
Plant Protection	PF	Pest management in Papaya	1	On	2	23	25	0	0	0	2	23	25
Plant Protection	PF	Insects pests of cucurbits and their management	1	On	0	25	25	0	0	0	0	25	25
Plant Protection	PF	Diseases of papaya and their management	1	On	12	7	19	0	0	0	12	7	19
Plant Protection	PF	Beekeeping and demonstration of beehives and other equipments	1	On	0	0	0	5	0	5	5	0	5
Plant Protection	PF	Drum Seeded Rice	1	On	25	8	33	8	9	17	33	17	50
Plant Protection	PF	Water conservation and life saving irrigation in paddy	1	On	20	19	39	6	5	11	26	24	50
Plant Protection	PF	INM in wheat	1	On	37	2	39	1	0	1	38	2	40
Plant Protection	PF	Climate resilient agricultural technologies	1	On	34	17	51	0	0	0	34	17	51
Plant Protection	PF	Wheat planting with zero tillage method	1	On	41	8	49	1	0	1	42	8	50
Plant Protection	PF	Wheat planting with happy seeder	1	On	15	0	15	6	0	6	21	0	21
Plant Protection	PF	Operation and maintenance of Zero till seed cum fertilizer drill	1	On	27	10	37	3	0	3	30	10	40

Plant Protection	PF	Sowing of lentil through ZT technique	1	On	18	22	40	0	0	0	18	22	40
Plant Protection	PF	Diseases of wheat and their management	1	Off	25	0	25	0	0	0	25	0	25
Plant Protection	PF	Diseases of potato and their management	1	Off	12	13	25	0	0	0	12	13	25
Plant Protection	PF	Diseases of tomato and their management	1	Off	17	8	25	0	0	0	17	8	25
Plant Protection	PF	Insect pests of litchi and their management	1	Off	22	3	25	0	0	0	22	3	25
Plant Protection	PF	Diseases of paddy and their management	1	Off	0	20	20	0	5	5	0	25	25
Plant Protection	PF	Diseases management in sugarcane	1	Off	12	5	17	3	0	3	15	5	20
Plant Protection	PF	Safe use of pesticides in agriculture	1	Off	23	0	23	2	0	2	25	0	25
Plant Protection	PF	Insect-pests management in paddy	1	Off	26	2	28	2	0	2	28	2	30
Plant Protection	PF	Integrated Pest Management in maize	1	Off	8	17	25	0	0	0	8	17	25
Plant Protection	PF	Management of insect-pests and diseases in mustard crop	1	Off	0	0	0	14	12	26	14	12	26
Plant Protection	PF	Importance of beekeeping	1	Off	20	10	30	15	5	20	35	15	50
Plant Protection	PF	Pest management under field and storage conditions	1	Off	225	50	275	40	7	47	265	57	322
Plant Protection	PF	Insect-pests and diseases of mustard	1	Off	25	0	25	0	0	0	25	0	25
Plant	PF	Pests	1	Off	25	0	25	0	0	5	25	0	25

Protection		management in okra											
Plant Protection	PF	Insect pests and disease management in potato	1	Off	11	5	16	4	0	4	15	5	20
Plant Protection	PF	Importance of Mushroom Production and beekeeping	1	Off	160	25	185	15	0	15	175	25	200
Plant Protection	PF	INM in wheat	1	Off	43	0	0	0	0	0	43	0	43
Plant Protection	PF	Climate resilient for higher crop yield	1	Off	7	18	25	0	0	0	7	18	25
Plant Protection	PF	Integrated Pest Management in paddy	1	Off	30	0	30	5	0	5	35	0	35
Plant Protection	PF	Importance of crop diversification and its role in mitigating climate change	1	Off	18	2	20	3	2	5	21	4	25
Plant Protection	PF	Integrated weed management in paddy	1	Off	6	31	37	1	0	1	7	31	38
Plant Protection	PF	Integrated nutrient management in maize	1	Off	23	1	24	1	0	1	24	1	25
Plant Protection	PF	INM in mustard	1	Off	39	0	39	1	0	1	40	0	40
Plant Protection	PF	Raised bed planting of maize	1	Off	34	3	37	1	2	3	35	5	40
Plant Protection	PF	Training on importance of energy conservation in agriculture by BREDA	1	Off	52	0	52	0	0	0	52	0	52
Plant Protection	PF	Beekeeping	1	Off	75	30	105	25	20	0	100	50	150
Plant Protection	PF	Package and Practices of sugarcane	1	Off	150	0	150	50	0	50	200	0	200

		cultivation											
Plant Protection	PF	Integrated Pest Management in Sugarcane cultivation	1	Off	175	0	175	25	0	25	200	0	200
Plant Protection	PF	Package and Practices and IPM in Sugarcane cultivation	1	Off	90	0	90	30	0	30	120	0	120
Plant Protection	PF	Package and Practices and IPM in Sugarcane cultivation	1	Off	90	0	90	30	0	30	120	0	120
Plant Protection	PF	Package and Practices and IPM in Sugarcane cultivation	4	Off	680	120	800	0	0	0	680	120	800
Plant Protection	PF	Scientific cultivation of mushroom	1	Off	80	5	85	10	7	17	90	12	102
Plant Protection	PF	Integrated Pest Management in Sugarcane cultivation	2	Off	350	0	350	50	0	50	400	0	400
Plant Protection	PF	Training for insecticide dealers	1	Off	25	0	25	0	0	0	25	0	25
Plant Protection	EF	Selection, handling, use and disposal of pesticide	1	Off	0	25	25	0	0	0	0	25	25
Plant Protection	EF	IPM in Rabi crops	1	Off	142	18	160	38	2	40	180	20	200
Animal Science													
Animal Science	PF	Kuroiler Production	1	On	0	0	0	22	15	37	22	15	37
Animal Science	PF	Business plan and achievement meeting of FPOs	1	On	26	0	26	1	0	1	27	0	27
Animal Science	PF	Biosecurity	1	Off	25	1	26	0	0	0	25	1	26
Animal Science	PF	Control of parasite diseases in	1	Off	21	3	24	1	0	1	22	3	25

		dairy animals											
Animal Science	PF	Perennial green fodder production	1	Off	16	9	25	0	0	0	36	9	45
Animal Science	PF	Improved shelter management for animals	1	Off	25	0	25	0	0	0	25	0	25
Animal Science	PF	Perennial green fodder production	1	Off	20	0	20	0	0	0	20	0	20
Animal Science	PF	Raised bed planting of maize	1	Off	41	9	50	0	0	0	41	9	50
Animal Science	PF	Integrated weed management in paddy	1	Off	39	11	50	0	0	0	84	11	95
Animal Science	PF	Raised bed planting of arhar	1	Off	38	12	50	0	0	0	63	12	75
Agriculture Engineering													
Agriculture Engineering	PF	Selection, operation, safety and maintenance of improved tillage implements	1	On	2	14	16	0	0	0	2	14	16
Agriculture Engineering	PF	Working function of drum seeder for direct seeding of paddy	1	On	17	6	23	0	2	2	17	8	25
Agriculture Engineering	PF	Use of laser land leveller for better yield of crops	1	On	22	3	25	0	0	0	22	3	25
Agriculture Engineering	PF	Operation, safety and maintenance of laser land leveller	1	On	24	0	24	1	0	1	25	0	25
Agriculture Engineering	PF	Different types of grain storage and its application	1	On	22	2	24	1	0	1	23	2	25
Agriculture Engineering	PF	Scientific cultivation of moong (ZT)	1	On	2	14	16	0	0	0	2	14	16

Agriculture Engineering	PF	Importance and working function of laser land leveller	1	On	32	15	47	0	0	0	32	15	47
Agriculture Engineering	PF	Workshop on laser land leveller for bhoomi samtalikaran	1	On	34	14	48	0	0	0	34	14	48
Agriculture Engineering	PF	Popularisation and health benefits of millets	1	On	27	23	50	0	0	0	27	23	50
Agriculture Engineering	PF	Direct Seeding of rice through drum seeder	1	On	27	23	50	0	0	0	27	23	50
Agriculture Engineering	PF	Paddy seeding through DSR	1	On	30	30	60	0	0	0	30	30	60
Agriculture Engineering	PF	Direct seeded rice through rice wheat seeder	1	On	31	19	50	0	0	0	31	19	50
Agriculture Engineering	PF	Operation and maintenance of laser land leveller	1	On	31	12	43	0	4	4	31	16	47
Agriculture Engineering	PF	Paddy cultivation: alternate wetting and drying	1	On	41	9	50	0	0	0	41	9	50
Agriculture Engineering	PF	Paddy nursery management for manual transplanter	1	On	38	12	50	0	0	0	38	12	50
Agriculture Engineering	PF	Direct seeded rice	1	On	30	17	47	1	2	3	31	19	50
Agriculture Engineering	PF	Importance of soil sampling	1	On	36	8	44	3	1	4	39	9	48
Agriculture Engineering	PF	Application of herbicide in DSR	1	On	14	12	26	1	8	9	15	20	35
Agriculture Engineering	PF	Paddy seeding through SRI method	1	On	21	29	50	0	0	0	21	29	50
Agriculture Engineering	PF	INM in paddy	1	On	44	6	50	0	0	0	44	6	50
Agriculture Engineering	PF	Operation and maintenance	1	On	38	9	47	1	2	3	39	11	50

		of paddy transplanter											
Agriculture Engineering	PF	Importance of draught resistance in climate resilient-agriculture	1	On	30	8	38	9	3	12	39	11	50
Agriculture Engineering	PF	Importance of micro irrigation in changing climatic conditions	1	On	24	1	25	0	0	0	24	1	25
Agriculture Engineering	PF	Importance of intercropping and its role in mitigating draught conditions	1	On	15	5	20	2	3	5	17	8	25
Agriculture Engineering	PF	Storage conditions of various fruits and vegetables	1	Off	24	1	24	0	0	0	24	1	25
Agriculture Engineering	PF	Advanced agricultural machinery for sugarcane cultivation	1	Off	13	12	25	0	0	0	13	12	25
Agriculture Engineering	PF	Mechanical weed management	1	Off	9	9	18	2	5	7	11	14	25
Agriculture Engineering	PF	Post harvest management and storage of wheat	1	Off	26	2	28	2	0	2	28	2	30
Agriculture Engineering	PF	Extraction and storage of vegetable seeds	1	Off	17	8	25	1	0	1	18	8	26
Agriculture Engineering	PF	Selection, operation, safety and maintenance of improved threshing implements	1	Off	22	0	22	2	1	3	24	1	25
Agriculture Engineering	PF	Resource conservation technologies for sustainable	1	Off	23	1	24	1	0	1	24	1	25

		production of cereal crop											
Agriculture Engineering	PF	Installation, operation and maintenance of sprinkler irrigation system	1	Off	31	3	34	2	0	2	33	3	36
Agriculture Engineering	PF	Improved irrigation practices for better production of crops	1	Off	20	5	25	0	0	3	20	5	25
Agriculture Engineering	PF	Improved storage structure of rice	1	Off	20	3	23	0	2	2	20	5	25
Agriculture Engineering	PF	Application of wheel hoe for weed management for different row crops	1	Off	12	8	20	1	4	5	13	12	25
Agriculture Engineering	PF	Operation and maintenance of raised bed planter	1	Off	13	7	20	1	4	5	14	11	25
Agriculture Engineering	PF	Use of grubber for drudgery reduction	1	Off	25	0	25	0	0	0	25	0	25
Agriculture Engineering	PF	INM in green gram	1	Off	29	20	49	0	0	0	29	20	49
Agriculture Engineering	PF	Sowing of Moong through ZT technique	1	Off	43	9	52	0	0	0	43	9	52
Agriculture Engineering	PF	Application of DSR in climate resilient agriculture	1	Off	16	25	41	5	4	9	21	29	50
Agriculture Engineering	PF	Short duration varieties and their role in mitigating draught conditions	1	Off	25	0	25	0	0	0	25	0	25
Agriculture Engineering	PF	Ring pit digger and sugarcane	1	Off	150	0	200	50	0	50	200	0	200

		cultivation by ring pit method											
Agriculture Engineering	PF	Farm machinery for sugarcane cultivation	1	Off	175	0	175	25	0	25	200	0	200
Agriculture Engineering	PF	Bud-Chip method for sugarcane cultivation	1	Off	180	0	180	20	0	20	200	0	200
Agriculture Engineering	PF	Importance of machinery in sugarcane cultivation	1	Off	170	30	200	0	0	0	170	30	200
Agriculture Engineering	PF	Farm machinery for sugarcane cultivation	1	Off	150	25	175	25	0	25	175	25	200
Agriculture Engineering	PF	Importance of machinery in sugarcane cultivation	1	Off	165	0	180	35	0	20	200	0	200
Agriculture Engineering	PF	Importance of machinery in sugarcane cultivation	4	Off	685	115	800	0	0	0	685	115	800
Home Science													
Home Science	PF	Value added products of millets	1	On	2	0	2	28	0	28	30	0	30
Home Science	PF	Nutrition Enhancement through pre cooking methods	1	On	0	10	10	0	21	21	0	31	31
Home Science	PF	Nutri-garden (Poshan Mah)	1	On	0	11	11	0	14	14	0	25	25
Home Science	PF	Value addition of seasonal fruits and vegetables (Poshan Mah)	1	On	0	17	17	1	7	8	1	24	25
Home Science	PF	Nutri garden	1	On	0	18	18	0	12	12	0	30	30
Home Science	PF	Value addition of seasonal fruits (Banana Chips making)	1	On	0	0	0	0	29	29	0	29	29
Home Science	PF	Handicrafts of banana fibers	1	Off	0	23	23	0	2	2	0	25	25

Home Science	PF	Use of multi grain flour in daily food habit	1	Off	0	0	0	0	29	29	0	29	29
Home Science	PF	Food adulteration	1	Off	0	27	27	0	0	0	0	27	27
Home Science	PF	Nutritional benefits of mushroom	1	Off	3	18	21	1	3	5	4	21	25
Home Science	PF	Value added products of leafy vegetables	1	Off	0	0	0	0	26	26	0	26	26
Home Science	PF	Underutilized highly nutritive vegetables	1	Off	0	19	19	0	8	8	0	27	27
Home Science	PF	Value added products of millets	1	Off	0	11	11	0	14	14	0	25	25
Home Science	PF	Value addition of banana (SCSP)	1	Off	0	0	0	0	25	25	0	25	25
Home Science	PF	Demonstration of sugarcane detrasher (SCSP)	1	Off	1	5	6	2	17	19	3	22	25
Crop Production													
Crop Production	PF	Scientific cultivation of potato	1	On	22	3	25	0	0	0	22	3	25
Crop Production	PF	Soil sampling and benefits of soil testing	1	On	24	8	32	0	0	0	24	8	32
Crop Production	PF	Use of hermetic bags for grain storage (SCSP)	1	On	0	0	0	21	4	25	21	4	25
Crop Production	PF	Crop diversification practices	1	Off	16	4	20	3	2	5	19	6	25
Crop Production	PF	Innovative agricultural practices for sustainable farming	1	Off	20	5	25	3	5	8	23	10	33
Crop Production	PF	Importance of micronutrient in crops	1	Off	21	1	22	3	0	3	24	1	25
Crop	PF	Seed treatment	1	Off	12	10	22	1	2	3	13	12	25

Production		in pulse crops												
Crop Production	PF	Scientific cultivation of wheat	1	Off	15	8	23	1	2	3	16	10	26	
Crop Production	PF	Vermicompost production and nutri garden	1	Off	160	25	185	15	0	15	175	25	200	
Crop Production	PF	Package and Practices of sugarcane cultivation	1	Off	170	6	176	22	2	24	192	8	200	
Crop Production	PF	Package and Practices of sugarcane cultivation	1	Off	165	5	170	28	2	30	193	7	200	
Crop Production	PF	Fertilizer calculation and natural farming (INM)	1	Off	39	1	40	0	0	0	39	1	40	
Crop Production	EF	Scientific cultivation of Rabi crops	1	Off	142	18	160	38	2	40	180	20	200	

H) Vocational training programmes for Rural Youth

Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self-employed after training			Number of persons employed elsewhere
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Apiculture	Beekeeping	Beekeeping	03	20	4	24				
Apiculture	Beekeeping	Beekeeping	03	15	0	15				
Mushroom	Mushroom cultivation	Mushroom cultivation	03	13	10	23				
Mushroom	Scientific cultivation of mushroom	Scientific cultivation of mushroom	05	41	3	44				
Mushroom	Mushroom cultivation	Mushroom cultivation	04	6	16	22				
Grain storage	Grain storage	Post management and storage of grains and seed	04	15	10	35				
Painting	Painting	Painting	04	0	52	52				
Candle making	Candle making	Candle making	04	28	28	0				

Farm machinery	Mechanization	Operation, safety and maintenance of laser land leveller	04	0	20	20				
Farm machinery	Mechanization	Operation, safety and maintenance of laser land leveller	04	19	6	25				
Protected cultivation	Protected cultivation	Polyhouse/ Shade net for protected cultivation of vegetables and fruits	04	30	20	50				
Poultry	Poultry	Poultry Production	04	1	26	25				
Livestock	Livestock	Cattle production	04	21	02	23				
Livestock	Livestock	Goat Production	04	16	18	34				

**Training title should specify the major technology /skill transferred*

D) Sponsored Training Programmes

Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants										Sponsoring Agency
				PF/R/Y/EF		Male			Female			Total				
						Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
Training on importance of energy conservation in agriculture by BREDA	Energy conservation	05.01.2024	01	PF	01	52	0		0	0		52	0		52	BREDA
Beekeeping	Beekeeping	15.03.2024	01	PF	01	75	25		30	20		105	0		150	Hort Department, Gopalganj
Package and Practices of sugarcane cultivation	IPM	16.08.2024	01	PF	01	150	50		0	0		150	50		200	Sugar mills
Integrated Pest Management in Sugarcane cultivation		17.08.2024	01	PF	01	175	25		0	0		175	25		200	Sugar mills
Package and Practices and IPM in Sugarcane cultivation		20.08.2024	01	PF	01	90	30		0	0		90	30		120	Sugar mills
Package and Practices and IPM in Sugarcane cultivation		23.08.2024	01	PF	01	90	30		0	0		90	30		120	Sugar mills

Package and Practices and IPM in Sugarcane cultivation		February, 2024	04	PF	04	680	0		120	0		800	0		800	Sugar mills
Scientific cultivation of mushroom	Mushroom cultivation	21.09.2024	01	PF	01	80	10		5	7		85	17		102	Hort Department, Gopalganj
Integrated Pest Management in Sugarcane cultivation		12.09.2024 & 27.09.2024	02	PF	02	350	50		0	0		350	50		400	Sugar mills
Training for insecticide dealers	Safe use of pesticides	28.12.2024	01	PF	01	25	0		0	0		25	0		25	Dept of Agri, Gopalganj
Package and Practices of sugarcane cultivation	Sugarcane cultivation	20.09.2024	01	PF	01	170	22		6	2		176	24		200	Sugar mills
Package and Practices of sugarcane cultivation	Sugarcane cultivation	4.10.2024	01	PF	01	165	28		5	2		170	30		200	Sugar mills
Fertilizer calculation and natural farming (INM)	INM	25.10.2024	01	PF	01	39	0		1	0		40	0		40	KVK Piprakothi
Ring pit digger and sugarcane cultivation by ring pit method	Use of machinery in sugarcane cultivation	13.08.2024	1	PF	1	150	50		0	0		200	50		200	Sugar mills
Farm machinery for sugarcane cultivation	Use of machinery in sugarcane cultivation	16.08.2024	1	PF	1	175	25		0	0		175	25		200	Sugar mills

Bud-Chip method for sugarcane cultivation	Use of machinery in sugarcane cultivation	17.08.2024	1	PF	1	180	20		0	0		180	20		200	Sugar mills
Importance of machinery in sugarcane cultivation	Use of machinery in sugarcane cultivation	09.09.2024	1	PF	1	170	0		30	0		200	0		200	Sugar mills
Farm machinery for sugarcane cultivation	Use of machinery in sugarcane cultivation	20.09.2024	1	PF	1	150	25		25	0		175	25		200	Sugar mills
Importance of machinery in sugarcane cultivation	Use of machinery in sugarcane cultivation	04.10.2024	1	PF	1	165	35		0	0		180	20		200	Sugar mills
Importance of machinery in sugarcane cultivation	Use of machinery in sugarcane cultivation	February, 2024	4	PF	4	685	0		115	0		800	0		800	Sugar mills

Post harvest technology and value addition										
Area of training	No. of Courses	No. of participants								
		General			SC			Grand Total		
		M	F	Total	M	F	Total	M	F	Total
Crop production and management										
Increasing production and productivity of crops										
Commercial production of vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Other										
Total										
Processing and value addition										
Other										
Total										
Farm machinery										
Farm machinery, tools and implements										
Other										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Other										
Total										
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Other										
Total										
Agricultural Extension										
Capacity Building and Group Dynamics										
Other										
Total										
Grant Total										

J. Information on ASCI Skill Development Training Programme funded by ICAR undertaken during 2024 (NA)

Total no of training organised	Name of QP/Job role	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	

K. Information on Skill Development Training Programme (other agency if any) if undertaken

Total no of training organised	Name of QP/Job role	Title of the training	Duration (in hrs.)	No. of participants								Fund utilized for the training (Rs.)	
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F		T

3.5. A. ACHIEVEMENTS OF EXTENSION/OUTREACH ACTIVITIES

(Including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total				
		M	F	Total	SC/ST	M	F	Total	M	F	Total	SC/ST	
Kisan Mela organized													
Kisan Mela participated	03	190	60	250	100	6	1	7	196	61	257	100	
Field Day	15	270	20	290	4	9	1	10	279	21	300	4	
Kisan Ghosthi	05	130	20	150	5	2	2	4	137	22	159	5	
Exhibition organized	03	190	60	250	100	6	1	7	196	61	257	100	
Participation in exhibition													
Film Show													
Method Demonstrations	05	45	10	55	10	3	1	4	48	11	59	10	
Farmers Seminar													
Workshop													
Group discussion													
Lectures delivered as resource persons	39	6120	812	6932	794	03	02	05	6123	814	6937	794	
Advisory Services	605	900	302	1202	45	3	3	6	903	305	1208	1	
Scientific visit to farmers field	321	570	49	454	29	2	2	4	572	51	623	29	
Farmers visit to KVK	850	2123	756	2879	186	2	2	4	2125	758	2883	186	
Diagnostic visits	40	317	24	341	9	3	1	4	320	25	345	9	
Exposure visits	5	215	110	325	100	6	1	7	221	111	332	100	
Ex-trainees Sammelan													
Soil health Camp													
Animal Health Camp													
Agri mobile clinic													
Soil test campaigns													
Farm Science Club													
Conveners meet													
Self Help Group Conveners meetings													
Mahila Mandals Conveners meetings													
Special day celebration	09	210	129	339		19	10	29	229	139	368		
Sankalp Se Siddhi													
Swatchta Hi Sewa													
Celebration of important date													
Others													

B. Other Extension/content mobilization activities

Nature of Extension Activity	No. of activities
Newspaper coverage	35
Radio talks	00
TV talks	04
Popular articles published	01
Extension Literature	
Electronic media	

C. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology
Climate resilient varieties and technologies in Agricultural Production	01	44	CRA technologies
Crop diversification and best practices	01	50	Crop diversification
Agri-business and value addition	01	25	Value addition
Financial and government support for farmers	01	30	
Innovative Agricultural Practices for Sustainable Farming	01	33	Sustainable Farming

D. Celebration of important days in KVKs

Celebration of Important Days	No. of activities	Farmers			Extension Officials			Total		
		M	F	Total	M	F	Total	M	F	Total
Republic day (26 th Jan.)	01	35	25	60	2	3	5	37	28	65
International Women's Day (8th Mar.)										
Ambedkar Jayanti (14th Apr.)										
World's Veterinary Day (Last week of April)										
World 'Milk Day										
International Yoga Day (21st Jun.)	01	10	0	10	04	0	04	14	0	14
Independence Day (15th Aug.)	01	15	25	40	5	1	6	20	26	46
Parthenium Awareness Week	02	27	23	50	03	0	03	30	23	53
Hindi Diwas (14th Sep.)										
Gandhi Jayanti (2nd Oct.)	01	23	17	40	06	03	09	29	20	49
Mahila Kisan Diwas (15th Oct.)										
World Food Day (16th Oct.)										
Vigilance Awareness Week										
National Unity Day (31st Oct.)										
World Science Day (10th Nov.)										
National Education Day (11th Nov.)										
Fisheries day (21 Nov)										
National Constitution Day (26th Nov.)	01	0	0	0	06	03	09	06	03	09
World Soil Day (5th Dec.)	01	24	08	32	02	03	05	26	11	37
Kisan Diwas (23 rd Dec.)										
World Environment Day										
PM Kisan Samman Nidhi Yojana (18.06.2024; 05.10.2024)	02	89	48	137	3	3	6	92	51	143
ICAR Foundation Day (16.07.2024)	01	10	00	10	0	0	0	10	00	10

E. Interaction/Live telecast programme of Hon'ble PM/Hon'ble or Argil Minister

Sl.	Date of event	Name of Event/Programme	Interaction of Hon'ble PM/AM	Participants			
				Farmers	Staffs	VIP/Others	Total
1	18.06.2024 & 05.10.2024	Live telecast of PM KisanSammanNidhi programme at KVK Gopalganj	PM	137	06	0	143

3.5 A. Production and supply of Technological products (NA)**A. Seed production at seed village**

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farmers to whom seed provided			
					SC	ST	Other	Total

B. Seed production at KVK farm

Type of seed produced	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided				
				SC	ST	Other	Total	
Cereals	Wheat (DBW-187)	168.87		Sold to Directorate of Seed, Dholi, RPCAU, Pusa				
	Wheat (HD-2967)	17.40						
	Paddy (R. Neelam)	124.4						
Oil seed	Rai (R. Suflam)	21.34						
Millets	Finger Millet	19.34						
Pulses	Pea (Azad Pea-03)	3.30						
	Chickpea (GNG-2299)	11.50						
	Lentil (IPL-316)	0.5						
	Pigeon Pea (R Arhar 1)	6.0						
	Green gram (Virat)	3.36						
Green Manure								
Commercial crop								
Vegetables								
Fodder								
Spices								
Fruits								
Forest crop								
Ornamental/flower								
Medicinal								
Grand Total		376.01						

C. Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
Vegetable seedlings							
Cauliflower	Madhuri Hyb	1365	1365	40		13	53
Broccoli	Hyb	1190	2380	40		07	47
Cabbage	Green Flash Hyb.	1215	1215	40		13	53
Tomato	Nayak Hyb.	1204	1204	40		11	51
Brinjal	Navkiran Hyb.	1270	1270	40		10	50
Chilli	Alva Hyb	1160	1160	40		09	49
Capsicum	Hyb	200	1000	40		00	40
Onion							
Bottle guard	Hybrid	195	975	15		95	64
Sponge guard	Hybrid	492	2460		110		
Ridge guard	Hybrid	86	430		36		
Pumpkin	Hybrid	452	2260		85		
Bitter guard	Hybrid	536	5360		95		
Commercial seedlings							
Mulberry							
Sugarcane,							
Sweet Potato							
Turmeric							

Zinger							
Others							
Fruitsseedlings							
Mango							
Guava							
Lime							
Papaya	Red lady	1060	26500	25		25	52
Banana							
Ornamental plants							
Marigold							
Annual chrysanthemum							
Tuberose							
Others							
Medicinal and Aromatic							
Plantation							
Tuber Elephant yams							
Spices							
Grand Total		10425	47579	320		183	785

D. Forest species (NA)

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total

E. Fodder crops saplings (NA)

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total

F. Production of Bio-Products (NA)

Name of product	Quantity (Kg)	Value (Rs.)	No. of Farmers benefitted			
			SC	ST	Other	Total
Bio-fertilizers						
Bio-food(Spirulina etc)						
Bio-pesticide						
Bio-agents (Trichocardetc)						
Worms (earthworm, silk worms etc)						
Bio-fungicide						
Others, please specify (Mushroom spawn, Culture	20 q	Used in KVK farm				

Mineral Mixture, Coir pith compost, Cow dung, Cow urine Vermicompost						
Total						

G. Production of livestock & fisheries materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted			
				SC	ST	Other	Total
Dairy animals							
Cows							
Buffaloes							
Calves							
Others (Pl. specify)							
Small ruminants							
Sheep							
Goat							
Other, please specify							
Poultry	Kuroilers	1500		52	0	0	52
Broilers							
Layers							
Duals (broiler and layer)							
Japanese Quail							
Turkey							
Emu							
Ducks							
Others (Pl. specify)							
Piggery							
Piglet							
Hog							
Others (Pl. specify)							
Rabbitry							
Fisheries							
Indian carp							
Exotic carp							
Mixed carp							
Fish fingerlings							
Spawn							
Others (Pl. specify)							
Grand Total							

H. SOIL & WATER TESTING

a. Details of equipment available in Soil and Water Testing Laboratory (NA)

Sl. No	Name of the Equipment	Qty.

b. Details of samples analyzed so far

Total number of soil samples analyzed till now		
Through mini soil testing kit/labs	Through soil testing laboratory (from outside)	Total
	1500	1500

c. Detail of Soil, Water and Plant analysis at KVK (2024) (NA)

Sl.	Analysis	No. of Samples analyzed	No. of Villages covered	No. of Farmers benefitted	Amount realized (Rs.)
1.	Soil				
2.	Water				
3.	Plant				
4.	Fertilizers				
5.	Manures				
6.	Food				
7.	Others (if any)				

d. Details of World Soil Day Celebration

Sl. No.	No. of Activity conducted	Soil Health Cards distributed	No. of farmers benefitted	No. of VIPs	Name (s) of VIP(s) involved if any	Total No. of Participants attended the program
1	01	-	32	-	-	32

I. Activities under Rain Water Harvesting structure and micro irrigation system

S.No	No of training programme conducted	No. of demonstrations	No. of plant material produced	Visit by the farmers (No.)	Visit by the officials (No.)
01	04			136	

3.5. b. Seed Hub Programme - "Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India"**1. Name of Seed Hub Centre: (NA)**

Name of Nodal Officer:	
Address :	
e-mail :	
Phone No. :	
Mobile :	

2. Quality Seed Production of Pulses (NA)

Season	Crop	Variety	Production (q)			Category of Seed (F/S, C/S)
			Target	Area sown (ha)	Production	

3. Financial Progress

Financial Year	Fund received	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
		Infrastructure	Revolving fund		
2016-17	43.8363		8.79295	35.0438	
2017-18	42.14041		10.60618	31.53423	
2018-19	49.72210		15.50316	34.21894	
2019-20	47.43291		13.4195	34.01341	

2020-21	49.70666		44.12911	5.57755	
2021-22	25.4088		11.75232	13.65648	
2022-23	16.26762		11.34905	4.91857	
2023-24	18.94499		11.26413	7.68186	
2024-25	20.82695		18.99333	1.83362	(Upto 31.12.2024)

4. Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	
Nursery	
Animal sector	
Mushroom / other enterprises	
Others	

3.6 HUMAN RESOURCES DEVELOPMENT, PUBLICATIONS, AWARDS & RECOGNITION

A. Details of Research papers published by KVK (with full title, author & journal)

S.No	Item	Details of publication bibliographic form	NASS Rating	
			>6	<6
1	Research paper	Rana A , Chandel RS and Verma KS. 2024. Population dynamics and crop damage assessment of Scarabaeid pests in the North-Western Himalayas, International Journal of Pest Management DOI: 10.1080/09670874.2024.2399067	7.10	
2	Research paper	Anil, Subramanian S, Nysanth NS, Ramesh KB and Rana A . 2024. Diversity of culturable bacteria in gut of white grub <i>Maladera insanabilis</i> (brenske). Indian Journal of Entomology. DoI. No.: 10.55446/IJE.2024.1334		5.59
3	Research paper	Kavita Verma, Sunita Kushwah , Prem Prakash Gautam , Savita Kumari , Priti Pallavi , Priti Pallavi , Kumari Namrata ,Sripriya Das. Assessment And Development Of Nutrient-Rich Complementary Food For Unprivileged Families In Vaishali District Of Bihar. https://doi.org/10.21276/AATCCReview.2024.12.02.201	6.0	

B. Details of Other Publications

Particulars	Details of publication bibliographic form	No of copies published (if any)	No of copies distributed (if any)
Abstracts in Seminar/conference/symposia published	1. Rana A, Roy R, Kumar N and Kumar R. 2024. The potential of bio-control agents in managing fruit borer and late blight of tomato. Proceedings of International Conference on “Advanced Agricultural Technologies for Self	01	

	<p>Reliant Farmers and Developed India”. Organised by KVK Piprakothi, DrRPCAU Pusa on 11.02.2024. p</p> <p>2. Kumar N, Rana A, Roy R and Kumar R. 2024. Effectiveness and Economics of Happy Seeder for Direct Sowing of Wheat in Paddy Residue Field. Proceedings of International Conference on “Advanced Agricultural Technologies for Self Reliant Farmers and Developed India”. Organised by KVK Piprakothi, DrRPCAU Pusa on 11.02.2024. p</p> <p>3. Roy R, Kumar N, Rana A and Kumar R. 2024. Response of different treatment regimen based on disease severity. Proceedings of International Conference on “Advanced Agricultural Technologies for Self Reliant Farmers and Developed India”. Organised by KVK Piprakothi, DrRPCAU Pusa on 11.02.2024. p</p>	01	
Books published			
Book chapter published	<p>1. Dey P, Mahapatra BS, Mitra B, Sarvadamana AK, Chowdhury AR, Rana A, and Mandal D. 2024. Potential Nexus Approach for Sustainable Soil Productivity Resource Management. In: Environmental Nexus for Resource Management (Eds. Jatav HS, Minkina T, Singh SK, Singh B and Rajput BD). CRC Press, Taylor & Francis Group pp 243-273</p> <p>2. Thakur P, Dev P, Thakur A, Rana A, Gill A and Mohit. 2024. Bioremediation strategies for soil contaminated with heavy metal ions. In: Bio-organic Amendments for Heavy Metal Remediation: Water, Soil and Plant Approaches and Technologies (Eds. Ditta A, Mehmood S, Imtiaz M and Tu MS) Elsevier pp 405-422.</p> <p>3. Thakur A, Thakur P, Rana A and Thakur I. 2024. Policy and regulatory aspects for the remediation of heavy metals contaminated soils from different</p>	01	
		01	

	<p>countries. In: In: Bio-organic Amendments for Heavy Metal Remediation: Water, Soil and Plant Approaches and Technologies (Eds. Ditta A, Mehmood S, Imtiaz M and Tu MS) Elsevier pp 447-457</p> <p>4. Rana A, Tandon V, Kapoor P, Katoch A. 2024. Life Cycle, Virulence, and Mechanism of Action of Entomopathogenic Fungi. In: Deshmukh, S.K., Sridhar, K.R. (eds) Entomopathogenic Fungi. Springer, Singapore. https://doi.org/10.1007/978-981-97-5991-0_2.</p> <p>5. Tandon V, Rana A, Kapoor P, Katoch A. 2024. Biocontrol Potential and Specificity of Entomopathogenic Fungi. In: Deshmukh, S.K., Sridhar, K.R. (eds) Entomopathogenic Fungi. Springer, Singapore. https://doi.org/10.1007/978-981-97-5991-0_6</p>	01	
Popular articles published	1. Chandel RS, Verma KS, Rana A and Thakur H. 2024. Managing Cutworms in Maize. Agriculture & Food: e Newsletter. 06(08): 134-136		
Success story published			
TOTAL			

C. Details of Extension Publications

Particulars	Details of publication (Title, authors name, organization)	No of copies published (if any)	No of copies distributed (if any)
Extension Bulletins published			
Agro-advisory bulletins			
Extension folders/leaflet/pamphlets			
Technical reports			
News letter	KVK at A Glance	200	NA
Electronic Publication (CD/DVD etc)			
TOTAL			

D. Details of HRD programmes undergone by KVK personnel

Sl. No.	Name of KVK personnel	Designation	Name of course/training program attended	Date	Duration	Organizer/Venue
1.	Dr. Ramakrishna	Sr. Scientist and Head	Jalwayu parivartan ka prabhav: mudde aur	05.02.2024	01 day	BAMETI, Patna

	Roy		sudhar ran neetiyam			
2.	Dr. Abhishek Rana	SMS, Plant Protection	Millet Seed Production and value chain	06.03.2024 to 08.03.2024	03 days	DrRPCAU, Pusa
3.	Shri Ravikant Kumar	Farm Manager	Millet Seed Production and value chain	06.03.2024 to 08.03.2024	03 days	DrRPCAU, Pusa
4.	Dr. Ramakrishna Roy	Sr. Scientist and Head	Recent Advances in Livestock, Poultry and Fisheries	09.04.2024 to 10.04.2024	02 days	DEE, BASU
5.	Dr. Ramakrishna Roy	Sr. Scientist and Head	Training programme on e-office	14.06.2024	01 day	Dr. RPCAU, Pusa
6.	Dr. Naveen Kumar	SMS, Ag. Engg	Training programme on e-office	14.06.2024	01 day	Dr. RPCAU, Pusa
7.	Dr. Ramakrishna Roy	Sr. Scientist and Head	Capacity building programme	19.06.2024	01 day	Dr. RPCAU, Pusa
8.	Dr. Naveen Kumar	SMS, Ag. Engg	Capacity building programme	19.06.2024	01 day	Dr. RPCAU, Pusa
9.	Shri Pankaj Rai	Assistant	Capacity building programme	19.06.2024	01 day	Dr. RPCAU, Pusa
10.	Dr. Ramakrishna Roy	Sr. Scientist and Head	OFT finalization workshop	27.06.2023 to 28.06.2024	02 days	ATARI, Patna
11	Dr. Abhishek Rana	SMS, Plant Protection	Regional consultation on Science of Natural Farming at Hotel Centrum, Lucknow	19.07.2024	01 day	Ministry of Agriculture, GOI
12	Dr. Naveen Kumar	SMS, Ag. Engg	OFT finalisation workshop	24.07.2024	01 day	ATARI, Patna
13	Dr. Anita Gautam	SMS, Home Science	OFT finalisation workshop	25-26.07.2024	01 day	ATARI, Patna
14	Dr. Ramakrishna Roy	Sr. Scientist and Head	International conference on "Advance Agricultural Technology for self reliant farmers and developed India	11.02.2024	01 day	KVK Piprakothi
15	Dr. Naveen Kumar	SMS, Ag. Engg	International conference on "Advance Agricultural Technology for self reliant farmers and developed India	11.02.2024	01 day	KVK Piprakothi
16	Dr. Abhishek Rana	SMS, Plant Protection	International conference on "Advance Agricultural Technology for self reliant farmers and developed India	11.02.2024	01 day	KVK Piprakothi

E. Details of attachment training (RAWE/ FET for ARS/Others) through KVK (NA)

Type of attachment	No of student trained	No of days stayed

F. Awards/Recognition

Institutional Award received by KVK (NA)

Sl. No.	Name of the Award	Conferring Authority	Amount	Purpose

Award received by KVK Scientists

Sl.	Name of the Award	Name of the Scientist	Value in Amount/	Purpose	Conferring Authority
1.	Best PhD Thesis Award	Dr. Abhishek Rana	NA	PhD Thesis	Indian Association of Hill Farming, ICAR Research Complex for NEH Region Umroi Road, Umiam
2.	Best Oral presentation award	Dr. Naveen Kumar, Dr. Ramakrishna Roy, Dr. Abhishek Rana, Ravikant Kumar	NA	Oral presentation during International Conference on "Advanced Agricultural Technologies for Self Reliant Farmers and Developed India	KVK Piprakothi, DrRPCAU Pusa

Award received by Farmers

Sl.	Name of the Award	Name of the Farmer	Address	Contact No.	Aadhar No.	Amount	Purpose	Conferring Authority
1.	Millionaire Farmer Award-2024	Sh. Manish Tiwari	Vill: Sipaya; Block: Kuchaikote	7004824505	-	-	Diversified farming	Mahindra & Mahindra
2.	Progressive Mushroom Grower Award	Smt. Rekha Kumari	Vill & Block: Hathua	7667594296	-	-	Mushroom Cultivation	DMR Solan

3.7. TECHNOLOGY DEVELOPMENT

A. Give details of Innovative Methodology/Process/Product or Innovative Technology developed by KVK

Sl. No.	Name/ Title of the technology	Brief details of the Innovative Technology	Impact of the technology	Status of commercialization/Patent

B. Give details of Organic farming practiced/Indigenous Technology/ITK practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

Sl. No.	Enterprise	Brief details of the ITK Practiced	Purpose/Impact of ITK	Impact of the technology

Give details of by the farmer (if Any)

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)

C. Indicate the Specific Training Need Analysis Tools/Methodology followed by KVKs

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed

4. IMPACT

A. Impact of KVK activities till now (Not to be restricted for reporting period)

Name of specific technology/skill transferred/training	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Zero tillage/Happy Seeding	1800	60		
Raised bed planting	475	28		
Laser Leveller	250	22		
Community Irrigation	160	100	-	Rs.25,000/acre/annum
Poultry Production	250	40		

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants


Cases of large-scale adoption

Horizontal spread of technologies	
Technology	Horizontal spread
Laser Levelling	250 acres in five villages viz. Sipaya, Tiwarimatininya, Baraipatti, Khemmatihiniya and Bishunpura villages. Farmers from Roopchap got their land laser levelled. Farmers from other villages viz. Sonhaura Gokhul, Bulaura have also evinced interest. The constraint is the brief time interval available during summer when the field is without crop suitable for laser levelling. Rain, intermittent rain during the summer period also derails laser land levelling.
Zero tillage/ Happy Seeding	Under Climate Resilient Agriculture (CRA) Programme, the zero till/ Happy seeding is practiced in large scale. Besides wheat zero till in other crops such as lentil, rapeseed and mustard is popularized. The field observation is that it has reduced the lodging problem and Phalaris minor infestation in wheat as well as savings in terms of time, fuel and labour cost. It's a part of conservation agriculture.
Raised bed planting	Raised bed planting in Pigeonpea and Maize crop has been adopted well.
Poultry Production	A large number of farmers viz. Mrityunjay, Anil Kumar, Sunny Kumar Singh, Saroj Singh, Ramesh Kumar Kushwaha, Vinod Kumar Pandey, Devtanand Yadav, Merajudin, Archit Rai, Suresh Rai, Muhtaq Ahmad, Pradeep Kumar Rai, Bishwanath Rai, Santosh Giri, Arbind Kumar Singh, Sunshwar Rai, Sajjad Hussain, Gautam Kumar, Md. Naseem, Ashok Singh, Chotelal Gupta, Upendra

	Chaubey, Santosh Kumar, Ramashray Ojha, Kanhaiya Tiwari, Aftab Ansari, Sabre Alam, Saheb Ali, Rehan Ahmad are poultry (nroiler/Layer) entrepreneurs
Mushroom cultivation	A total of 70 farmers have been trained on mushroom cultivation and around 22 farmers have adopted mushroom cultivation on small as well as large scale. One of progressive mushroom grower Smt Rekha Kumari from Gopalganj District got Progressive Mushroom Grower-2024 award from DMR, Solan.
High yielding variety of Mustard (R. Suflam -01), Arhar (R. Arhar-01) and Sugarcane (R. Ganna-01)	These varieties gaining popularity among the farmers of Gopalganj District.

Give information in the same format as in case studies

B. Details of entrepreneurship/startup developed by KVK

Name of the entrepreneur/ Name of the enterprise/firm	Smt. Rekhha Kumari
Registered address of the entrepreneur/firm	Vill and Block : Hathua, Gopalganj
Year of establishment	2022
Type of Enterprise	Herbal Gulal Production
Registration details	-
No of members associated	-
Technical components of the enterprise (with commodity)	Arrowroot powder, vegetables
Annual Income/revenue of the enterprise	1.5 lakh/ three months
Role of KVK/Technology backstopping (quantitative data support)	Training, Exposure for marketing
Period/Timeline of the entrepreneurship development	01 year
Economic and Social status of entrepreneur before and after the enterprise	Net income increased by 1.5 lakh
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Good
Major achievements	Market development, Attractive packaging, low price
Major constrains	Labour availability
Images/Imp Documents	

C. Success stories/Case studies, if any

Success story-01

1. Personal information

1.	Name of the farmer/ entrepreneur	Sajal Kumar
2.	Date of Birth	19.07.1974
3.	Education	Graduation
4.	Farming Experience/ Experience in enterprise	20 years
5.	Cell no./ e-mail	9931089552
6.	Full address	S/o- Shankar Choudhury Vill- Ghosia, Sihorwa, Block- Hathua, Po- Hathua, Distt.-Gopalganj
7.	Professional membership (Farmer club/SHG/ATMA/etc.)	
8.	Major achievement of the farmers	Increase in oilseed production and overall

		yield
9.	Awards received	NA

2. Professional Information

Title of the success story/case study	Oilseed cultivation with improved technologies					
Situation analysis/Problem statement (What prompted this initiative? What was the problem that needed to be addressed?)	The non-adoption of integrated crop management, the continuous use of local oilseed varieties, and fertilizer application without considering soil fertility status all contribute to reduced yields.					
Plan, Implement and Support/KVK Intervention(s): (Describe what systems of extension have done to address the challenge. What technology/technical knowledge being used? How were different agencies engaged in or consulted in the extension process? - Who, What, How)	Trainings, technology demonstration, Soil test and Balanced fertilizer, Secondary and micro nutrients application, high yielding variety, Effective irrigation					
Details of Practices followed by the farmer	Seed and Variety	Mustard, RH 761				
	Seed rate and method	5 kg/ha and Line sowing				
	Seed treatment	Phosphate Solubilizing Bacteria (PSB) and Carbendazim @ 2gram/kg				
	Micro nutrients	Zinc 33% @ 18 kg/ha and Sulphur 90 % @ 20 kg/ha				
	Herbicide	Pendimethalin 30% EC @ 3000 ml/ha				
	Insecticide	Imidacloprid 17.8 sl @ 100 ml/ha				
	Results/ Output (economical/ social/ etc.) (Key results/ Insight/ Interesting fact- initial, intermediate, or long-term outcome)	Specific Technology	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)
	Farmer practices	10.56	26100	56462	30362	2.16
	Demonstration	15.5	26750	84475	57725	3.15
	% Increase	46.78	24.29	49.61	90.12	45.83
Impact/ Outcome: (Determine the HIGHEST level of impact the program had on individuals, families, groups and/or society- Provide a short summary of the actual change (on knowledge, attitude, skills, practice, or policy) that took place. Provide quantitative measures, where possible and use simple graphs or tables to illustrate a point.) (50-100 words)	Farmers in Ghosia village save seeds from produce for the next oilseed cultivation and grow oilseeds on 50 hectares of farmland, marking a horizontal expansion of 40 hectares.					
Future plans						

Supporting Images



3. Economic Information

Specific Technology	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	10.56	26100	56462	30362	2.16
Demonstration	15.5	26750	84475	57725	3.15
% Increase	46.78	24.29	49.61	90.12	45.83

Success story-02

1. Personal information

1.	Name of the farmer/ entrepreneur	Kunal Rai
2.	Date of Birth	17.04.1984
3.	Education	Plus two
4.	Farming Experience/ Experience in enterprise	20 years
5.	Cell no./ e-mail	8825177490
6.	Full address	S/o- Mithilesh Kumar. Rai Vill- Barraipati, Block- Gopalganj, Distt.- Gopalganj
7.	Professional membership (Farmer club/SHG/ATMA/etc.)	
8.	Major achievement of the farmers	Increase in pulse production and overall yield
9.	Awards received	Millionaire Farmer of India

2. Professional Information

Title of the success story/case study	Maximizing Pulse Yield through Raised Bed Planting Technology	
Situation analysis/Problem statement (What prompted this initiative? What was the problem that needed to be addressed?)	The district's average rainfall of 1009 mm causes waterlogging, affecting pigeon pea yields from flatbed sowing. Additionally, the prolonged use of local varieties has led to reduced yields of pigeon pea.	
Plan, Implement and Support/KVK Intervention(s): (Describe what systems of extension have done to address the challenge. What technology/technical knowledge being used? How were different agencies engaged in or consulted in the extension process? - Who, What, How)	Trainings, technology demonstration, Raised bed planting with Tractor operated Raised bed planter, Secondary and micro nutrients application, high yielding variety, Wilt resistant variety, Achieving maximum Yield	
Details of Practices followed by the farmer	Seed and Variety	Pegeon Pea and Rajendra Arhar-1

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
District Agriculture Department	Meetings, trainings, joint implementation, contingent plan, technical support.
ATMA, Gopalganj	Meetings, Exposure visits, Trainings
District Sugarcane Department	Trainings
NABARD Gopalganj	Trainings, exposure visits, FPOs
District Rural Livelihoods (Jeevika)	Meetings, Trainings
District Animal Husbandry Department	Meetings
District Fisheries Department	Meetings
District Horticulture Department	Meetings, Mushroom training
District Seed Farm, Sipaya	Technical support
Directorate of seed and Farm, TCA, Dholi	Seed production, seed sale, source of seed, seed reviews
IFFCO, Gopalganj	Trainings
BSSOCA, Patna	Trainings
Biscomaun	Fertilizer requirement for farm

5.2. Details of Externally funded project & Programmes during 2024 (Eg. ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies) (information of previous years should not be provided)

a) Programmes for infrastructure development

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Climate Resilient Agriculture Programme (CRAP)	To delt with the changing climate	September, 2020 to till date	Govt of Bihar	

(b) Programme for other activities (training, FLD, OFT, Mela, Exhibition etc.)

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)

6. PERFORMANCE INDICATORS

6.1. Performance of demonstration units (other than instructional farm)

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq.mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Vermi- compost	2008	35	<i>E. fetida</i>					Training and demo
2.	Nursery	2008	10,000	Mango, litchi, aonla, guava,					Training and Demo
3.	Shed Net	2008	105	Seedlings					Training and Demo

4.	Seed Processing Plant	2010							Non functional
5.	Mushroom Unit	2018	55	Oyster Button					Training and demo
6.	Azolla	2018	2.5						Training and Demo
7.	Shed net	2019	200	Seedling prodn,					Training anddemo
8.	Polyhouse	2019	200	Seedling Prod.					Training and demo
9.	Custom hiring centre	2021	200	Different equipments are available for farmers on hiring basis					
10	Apiary	2022	50	<i>Apis mellifera</i>					Training and demo
11	Natural farming	2022	1500	Seasonal crops					Training and demo
	Total		2007.5						

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Wheat	21-22.11.2023	19.04.2024	06	DBW-187	C/S	168.87			
Wheat	22.11.2023	19.04.2024		HD-2967	T/L	17.40			
Paddy	15-24.07.2024	18.11.24	04	R. Neelam	F/S	124.4			
Rai	09.11.23	05-08.04.24		R. Suflam	T/L	21.34			
Finger Millet	01-06.08.24	18.11.24	02	RAU-08	F/S	19.34			
Pea	06.11.23	18.03.24	01	Azad Pea-03	C/S	3.30			
Chickpea	15.11.23	22-24.04.24	01	GNG-2299	B/S	11.50			
Lentil	23.11.23	18.04.24		IPL-316	T/L	0.5			
Pigeon Pea	26.07.23	16.04.24	01	R Arhar 1	F/S	6.0			
Green gram	30.03.24	10-15.06.24	01	Virat	C/S	3.36			

6.3. Performance of Production Units (bio-agents / bio pesticides/ bio fertilizers etc.) (NA)

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.					

6.4. Performance of Instructional Farm (livestock and fisheries production) (NA)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.							

6.5. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
2010	IMD Patna	Fucntional

6.6. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
Total:			

(For whole of the year)

6.7 Utilization of staff quarters (Need repairing)

- Whether staff quarters have been completed:
- No. of staff quarters:
- Date of completion:
- Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Main Account	UTTAR BIHAR GRAMIN BANK	SIPAYA, GOPALGANJ	1005231130000070
Non ICAR Account			1005231130000162
Revolving Account			100523101005130
NHM Account			100523101005207
CFLD Pulses	STATE BANK OF INDIA	SASAMUSA, GOPALGANJ	42370807510
CFLD Oil Seeds			42370930735
Natural Farming			42086989513
Skill Development			42658651850
RPL Up scaling			42658656665

7.2. Utilization of funds under CFLD on Oilseed (*Rs. In Lakhs*)

Item	Released by ICAR		Expenditure		Unspent balance as on – 1 st April 2024
	Kharif	Rabi	Kharif	Rabi	
Rapeseed & Mustard	0.00	7.09375	0.00	13.58513	(-) 1.06272

7.3. Utilization of funds under CFLD on Pulses (*Rs. In Lakhs*)

Item	Released by ICAR			Expenditure			Unspent balance as on 1 st April 2024
	Kharif	Rabi	Summer	Kharif	Rabi	Summer	
Pigeon Pea	0.00			0.00			(-) 1.2676
Lentil		0.00			0.00		
Green Gram			0.00			0.00	

7.4. Utilization of KVK funds during the year 2022 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	--	1,00,13,900.00	81,56,991.00
2	Traveling allowances	1,00,000.00	4,92,550.00	76,834.00
3.	HRD	25,000.00		7,396.00
4.	Maintenance of Building	30,000.00		0.00
5.	Office & POL	3,94,000.00		1,56,319.00
6.	Training	2,46,000.00		1,39,828.00
7.	On Farm Trial (OFT)	50,000.00		33,080.00
8.	Frontline Demonstration (FLD)	1,00,000.00		25,000.00
9.	Exhibition & Kisan Mela	40,000.00		4,620.00
10.	SCSP (General)	5,00,000.00		2,77,500.00
11.	SCSP (Capital)	1,20,000.00	63,600.00	15,000.00
TOTAL (A)		--	1,08,47,550.00	88,34,150.00
B. Non-Recurring Contingencies				
1	Works	0.00	0.00	0.00
2	Vehicle	0.00	0.00	0.00
3	Equipment & Furniture	0.00	0.00	0.00
4	Library	0.00	0.00	0.00
5.	IT	0.00	0.00	0.00
6.	Other	0.00	0.00	0.00
TOTAL (B)		0.00	0.00	0.00
C. REVOLVING FUND		0.00	20,82,695.00	18,99,333.00
GRAND TOTAL (A+B+C)		--	1,29,30,245.00	1,07,33,483.00

7.5. Status of Revolving fund (Rs. in lakh) for last three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2021	5.57755	19.83125	11.75232	13.6547.
2022	13.6547	11.52785	17.58876	7.59557
2023	7.59557	14.02642	10.40566	11.21633
2024	6.43779	19.72618	13.97249	12.19149 (Cash Only)

7.6. (i) Number of SHGs formed by KVKs

(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities

(iii) Details of marketing channels created for the SHGs

7.8 Revenue generation

Sl.No.	Name of Head	Income (Rs.)	Sponsoring agency
1.	Room Rent (BASU)	53,520.00	BASU, Patna
2.	Bank Interest	26,948.00	UBGB Sipaya
3.	Seed Sale at DSF, Dholi	10,90,985.00	DSF, Dholi
4.	Hiring Cost	8,08,245.00	CRAP KVK, Gopalganj
5.	Seed Sale at KVK, Gopalganj	53,000.00	Farmers
6.	Recouped Amount (N F)	49,997.00	Natural Farming KVK, Gopalganj
Total		20,82,695.00	

7.9 Resource Generation

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created

8. MISCELLANEOUS INFORMATION

8.1. Prevalent diseases/pests in Crops

Name of the disease	Crop	Date of outbreak	% Commodity loss	Preventive measures taken for area (in ha)
Leaf curl of papaya	Papaya	During cropping season (2024)	25 %	Timely applications of systemic insecticides were recommended
Brown spot of paddy	Paddy	Kharif 2024	25 %	Repeated applications of recommended fungicides
Termite	Wheat	Rabi 2024-25	15 %	Application of chlorpyrifos 20 EC @ 2ml/litre

8.2. Prevalent diseases in Livestock/Fishery (NA)

Name of the disease	Species affected	Date of outbreak	Number of death/ Morbidity rate (%)	Number of animals vaccinated

8.3. Nehru Yuva Kendra (NYK) Training (NA)

Title of the training programme	Period		No. of the participant		Amount of Fund Received (Rs)
	From	To	Male	Female	

8.4. Details of 'Pre-Rabi Campaign' Programme (NA)

Date of programme	No. of Union Ministers attended the programme	No. of Hon'ble MPs (Loksabha/Rajyasabha) participated	No. of State Govt. Ministers	Participants (No.)							Coverage by Door Darshan (Yes/No)	Coverage by other channels (Number)
				MLAs Attended the programme	Chairman ZilaPanchayat	Distt. Collector/ DM	Bank Officials	Farmers	Officials, PRI members	Total		

8.5 .Viksit Viksit Bharat Sanklap Yatra (LLB and ULB)

Sl.	No of events attended	No. of Gram Panchayat covered	Total no of farmer participated	No of Lecture Delivered on Soil Health/ Natural Farming
1.	54	54	47080	135

8.6. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Bihar	Gopalganj	To improve the productivity of sugarcane in changing climate	16	3200	Contingent plans are being executed by the KVK through CRA project, training and CFLD programme

8.9 Information on Visit of VIP/Ministers/ MP/MLA/DM/VC/Zila Parishad/Other Head of Organization/Foreigners/other Dignitaries to KVKs, if any

Date	Name of the person	Designation	Purpose of visit
05.01.2024	Shri Prabhakar Jha	Energy conservation specialist, BREDA, Patna	To deliver lecture on importance of energy conservation in agriculture
26.01.2024	Dr. Shama Praveen	MO, CHC, Kuchaikote	Viksit Bharat Sankalp Yatra
26.01.2024	Dr. Sarita Kumari	MO, CHC, Kuchaikote	Viksit Bharat Sankalp Yatra
26.01.2024	Dr. Anupam Lal Kusumkar	DDM, NABARD, Gopalganj	Viksit Bharat Sankalp Yatra
06.03.2024	Dr. Anupam Lal Kusumkar	DDM, NABARD, Gopalganj	To deliver lecture on Poultry farmng
09.04.2024	Dr. D.K. Roy	Director, Seed, RPCAU, Pusa	Seed production monitoring visit
12.04.2024	Smt. Priyanka Kumari	ADAE, Gopalganj	Crop cutting
12.04.2024	Ms. Renu Kumari	Dy. PD ATMA, Gopalganj	Crop cutting
12.04.2024	Shri Vikas Kumar	SDAO, Gopalganj	Crop cutting
15.04.2024	Ms. Renu Kumari	Dy. PD ATMA, Gopalganj	Crop cutting
16.04.2024	Smt. Priyanka Kumari	ADAE, Gopalganj	Crop cutting
19.04.2024	Shri Ashok Kumar	Project Manager, Industry Dept. Gopalganj	Data collection
31.05.2024	Dr. Anupam Lal Kusumkar	DDM, NABARD, Gopalganj	Discussion regarding FPOs
05.07.2024	Shri B.M. Tripathi	DAO, Gopalganj	Discussion about CRA activities and field visits
15.07.2024	Shri Ramashish Sinha	PGT (Bio), JNV Gopalganj	Interaction of school students with KVK Officials and field visits
15.07.2024	Shri Mukesh Kumar	PGT (Pol. Sci), Sahu Jain Girls School, Mirganj, Gopalganj	Interaction of school students with KVK Officials and field visits
15.07.2024	Shri Chandu Kumar	PGT (Botany), Sahu Jain Girls School, Mirganj, Gopalganj	Interaction of school students with KVK Officials and field visits
15.07.2024	Smt Santosh Kumari	Music Teacher, JNV Gopalganj	Interaction of school students with KVK Officials and field visits

01.08.2024	Ms. G.K. Jahnawee	Probation Officer, Home (Jail Correctional), Distt Probation Office, Chanave Jail Campus, Gopalganj	Interaction about nature of trainings being conducted by KVK Gopalganj
04.08.2024	Dr. Ashok Kumar Singh	SAHO Gopalganj	Scientists Farmers' interaction
04.09.2024	Ms. Renu Kumari	Dy. PD ATMA, Gopalganj	Scientists Farmers' interaction
27.09.2024	Shri Ranjeet Pratap Pandit	Dy. Director (Hort.) BAMETI, Patna	CRAP monitoring visit

8.10 Details of Scientific Advisory Committee (SAC) Meetings

Date	No of participants	Total statutory members present (sate line department)	Salient recommendations	Action Taken	If not, State reason
Not held during 2024					

*Salient recommendations of SAC in bullet points

9. Details of attachment training (RAWE/ FET for ARS/Others) through KVK

Type of attachment	No of student trained	No of days stayed

10. Any other programme organized by KVK, not covered above

Sl. No.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants
1.	Release of 109 varieties developed by ICAR	11.08.2024	KVK Gopalganj (Virtual)	Release of 109 varieties	53
2.	Live streaming of launch of NPSS Application (National Pest Surveillance System)	15.08.2024	KVK Gopalganj (Virtual)	Live streaming of launch of NPSS Application	32
3.	Kharif Mahabhiyan	27.05.2024	Gopalganj	To deliver lectures on different kharof crops	400
4.	Kharif Mahabhiyan	June, 2024	Manjha Block	Millets and maize cultivation	199
5	Climate resilient varieties and technologies in Agricultural Production	23.09.2024	Different villages of District Gopalganj	Technology week celebration	44
6	Crop diversification and best practices	24.09.2024			50
7	Agri-business and value addition	25.09.2024			25
8	Financial and government support for farmers	26.09.2024			30
9	Innovative Agricultural Practices for Sustainable Farming	27.09.2024			33

10	Farmers' Scientist Interaction	04.09.2024	KVK Gopalganj	Farmers' Scientist Interaction	50
11	Package & practices of wheat seed production	26.10.2024	Bhore block	Wheat Seed Production programme	322
12	Pest management under field and storage conditions during wheat seed production	26.10.2024			
13	District level <i>Rabi</i> mahaabhiyan at Gopalganj	11.11.2024	Gopalganj	To deliver lecture on various aspects of rabi crops	200
14	Rabi Mahaabhiyan	13.11.2024	Hathua		74
15	Rabi Mahaabhiyan	13.11.2024	Gopalganj		50
16	Rabi Mahaabhiyan	18.11.2024	Kuchaikote		200
17	Live telecast of First Episode of Krishi Episode	07.12.2024	KVK Gopalganj	To arrange live telecast of the prog to the farmers	90
Total					1852

PROJECT-WISE REPORTING (Applicable for KVKs identified under the given project)

11.1. Details of Cereal Systems Initiative for South Asia (CSISA) (NA)

11.2 Details of Tribal Sub Plan (TSP) (NA)

11.3. Details of Scheduled Caste Sub Plan (SCSP)

Sl.	Activities	Physical Achievement	
1)	Trainings	No. of Trainings/Demos	No. of beneficiaries
a.	Farmer	08	155
b.	Women		
c.	Rural Youths		
d.	Extension Personnel		
2)	OFT	No. of OFTs	No. of beneficiaries
3)	FLD	No. of FLDs	No. of beneficiaries
		07	155
4)	Mobile agro- advisory to farmers	No. of advisory: 80	No. of beneficiaries: 300
5)	Other activities		
a.	Participants in extension activities (No.)	155	
b.	Production of seed (q)		
c.	Production of Planting material (No. in lakh)	0.075	
d.	Production of Livestock strains (No. in lakh)	0.015 (Kuroilers)	
e.	Production of fingerlings (No. in lakh)		
f.	Testing of Soil, water, plant, manures samples (Nos.)		

11.4. NICRA (Technology Demonstration component) (NA)

Overall achievements

11.5. Formation and Promotion of FPOs as Cluster Based Business Organization (CBBOs)

S.No	No. of blocks allocated	Name of blocks	No. of FPOs registered	Average no of members per FPO	No. of FPO received Management cost	No. of FPO received Equity Grant	No. of FPOs doing business
1							

Details of commodity-based organizations/ farmers' cooperative society/ FPO formed/ associated with KVK under NCDC funding

S.No	Name of the FPO	Address of FPO	Registration No and Date	Proposed Activity	Commodity Identified	Total No. of BOM	Total no of farmers	Financial position (Rupees in lakh)	Success indicator
1.	Pragati Agro Producer Company Limited		Registration No and Date	Input supply				1105000	
2.	Gopalganj Trinetra Agroproducer Company Limited		Reg. No. U01400BR2016PTC026193 04.03.2016	Agricultural and animal husbandry service activities				100000	

11.6. Nutri-Sensitive Agricultural Resources and Innovation (NARI)**a. Overall achievement**

No. of Nutri smart village developed	Total Area covered	Total No of OFT organized	Total No. of FLD organized	No. of training/capacity development programme	Total No. of farmers/beneficiaries	No of Extension programmes	Total No. of farmers/beneficiaries
6	100 Katha (3.1 acre)	1	1	14	467	16	467

b. Details of OFT/FLD

OFT	1	14
Nutritional Garden		
Bio-fortified Crops		
Value addition (in no. of Unit or no. of Enterprise)		
Other Enterprises (in no. of Unit or no. of Enterprise)		
	Area (ha/ no. of Unit/Enterprise)	No. of farmers/beneficiaries
FLD		
Nutritional Garden	100 Katha (3.1 acre)	100

Bio-fortified Crops		
Value addition (in no. of Unit or no. of Enterprise)		
Other Enterprises (in no. of Unit or no. of Enterprise)		

c. Details of established Nutrition Garden in Nutri-Smart village

Sl.	Name of Nutri-Smart Village	Type of Nutrition Garden	Number	Area (sqm)	No. of beneficiaries
1.	KhemMatihiniya, Roopchhap, Diyarvijaypur, BaliwanRaimal, SipayaKhaas, Kala Matihiniya	Backyard/Kitchen Garden	100	12644.1 sqm (100 Katha)	100
2.		Community level			
3.		Terrace Garden			
4.		Vertical Garden			
TOTAL					

d. Details of Bio-fortified crops used in Nutri-Smart village

Name of Nutri-Smart Village	Season	Activity (OFT/FLD)	Category of crop (cereal/pulses/oilseed/ fruits & veg./ others)	Name of Crop	Variety	Area (ha)	No. of beneficiaries

e. Details of Value addition in Nutri-Smart village

Name of Nutri Smart Village	Name of Crop/ veg./ fruits/ other	Name of Value-added product	Activity (OFT/FLD)	No. of farmers/ beneficiaries
KhemMatihiniya, Roopchhap, Diyarvijaypur, BaliwanRaimal, SipayaKhaas, Kala Matihiniya	Banana, Millets, Milk, Rabi vegetables, Mushroom	Banana chips, Halwa, kheer, laddoo, stuffed paratha, phula, chutney, matthi etc., Mushroom laddoo, cookies, pickles, nuggets, samosies, powder, papads etc.	OFT, FLD, Trainings/capacity development programmes	467

f. Training programmes in Nutri-Smart village

Name of Nutri Smart Village	Area of Training	No of courses	No. of beneficiaries
KhemMatihiniya, Roopchhap, Diyarvijaypur, BaliwanRaimal, SipayaKhaas, Kala Matihiniya	Value addition of seasonal vegetables, Value addition of seasonal fruits, Value addition of millets, Value added	14	353

	products of leafy vegetables, Nutri-garden, Under utilized highly nutritive vegetables, Use of multigrain flour in daily food habits, Nutrition enhancement through various pre-cooking methods		

g. Extension activities under NARI Project

Name of Nutri-Smart Village	Title of Activity	No. of activities	No. of beneficiaries
KhemMatihiniya, Roopchhap, Diyarvijaypur, BaliwanRaimal, SipayaKhaas, Kala Matihiniya	Trainings/ Capacity development programmes, OFT, FLD	16	467

h. Details of recipe contest (if applicable)

No of events organised	Name of location/village	No. of participants
1	KVK Gopalganj	31

11.7 Attracting and Retaining Youth in Agriculture (ARYA) (NA)

11.8 Out-scaling of Natural Farming Format

Geographical information

Name of State		Bihar	
Name of KVK		Gopalganj	
Agro Climatic Zone of KVK		Zone-I	
Farming Situation of the KVK	Low land and irrigated	Latitude (N)	Longitude (E)
		26.57659 N	84.37619 E

Name of State		Bihar		
Name of KVK		Gopalganj		
Agro Climatic Zone of Village		Zone-I		
Farming Situation of the Selected Farmer	Low land and rainfed	Farmer	Latitude (N)	Longitude (E)
		1.	26.58269 N	84.36318E
		2.	26.58269 N	84.36318E
		3.	26.58269 N	84.36318E
		4.	26.58269 N	84.36318E
		5.	26.52999 N	84.0517 E
		6.	26.52999 N	84.0517 E
		7.	26.55435 N	84.37524 E
		8.	26.55435 N	84.37524 E
		9.	26.55435 N	84.37524 E
		10.	26.48230 N	84.18372 E
		11.	26.24520 N	84.10156 E

Details of Beneficiaries under Demonsatration at Farmer's Fields

Name of KVK	No. of blocks covered	No. of village covered	Total no. of Trained/Practicing NF Farmer	No. of farmers influenced to adopt NF	No. of farmers with whom the NF farmer can engaged all season	No. of farmers with whom the NF farmer can engage in 1 season	Any Remarks (in <50 words)
Gopalganj	03	06	Farmers got training: 482 Farmers attended awareness programmes: 1468	80	40	50	Many farmers are incorporating natural farming practices but are not able to fully adopt natural farming due to some constraints like unavailability of Desi cow, low yield in initial years, transportation of natural farming inputs to fields etc.

Demonstration Information**KVK wise information of demonstration conducted till date**

Name of State	Bihar
Name of KVK/Farmer where demonstration conducted	Gopalganj
AgroClimatic Zone of KVK	Zone-I
Cropping pattern of KVK plot	Rice-Wheat

	Paddy	Rajshri	Kharif (2023)	Jeevamrit, Ghanjeevamrit, Neemastra, Brahmastra, Angniastra, Dashparni ark	0.5 acre		Plant height (cm)		
							Other relevant parameter		
							Yield (q/ha)	25.10	21.05
							Cost of cultivation (Rs/ha)	39500	29500
							Gross Return (Rs/ha)	54793.3	45952.15
							Net Return (Rs/ha)	35685	31801
							B:C Ratio	1.89	2.36
							Soil PH	Mentioned in tables given below	
							Soil OC (%)		
							Soil EC (dS/m)		
							Available N (Kg/ha)		
							Available P (Kg/ha)		
							Available K (Kg/ha)		
							Soil Microbes (cfu)		
							Any other, specify		
	Wheat	DBW-187	Rabi (2023-24)	Jeevamrit, Ghanjeevamrit, Neemastra, Brahmastra, Angniastra, Dashparni ark	0.5 acre		Plant height (cm)		
							Other relevant parameter		
							Yield (q/ha)	27.65	21.16
							Cost of cultivation (Rs/ha)	38000	24000
							Gross Return (Rs/ha)	62903.75	48139.00
							Net Return (Rs/ha)	24903.75	24139.00
							B:C Ratio	1.66	2.01
							Soil PH	Mentioned in tables given	

						Soil OC (%)	below	
						Soil EC (dS/m)		
						Available N (Kg/ha)		
						Available P (Kg/ha)		
						Available K (Kg/ha)		
						Soil Microbes (cfu)		
						Any other, specify		
	Paddy	R. Neelam	Kharif (2024)	Jeevamrit, Ghanjeevamrit, Neemastra, Brahmastra, Angniastra, Dashparni ark	0.5 acre	Plant height (cm)		
						Other relevant parameter		
						Yield (q/ha)	27.40	19.74
						Cost of cultivation (Rs/ha)	38000	26000
						Gross Return (Rs/ha)	63020	45402
						Net Return (Rs/ha)	25020	19402
						B:C Ratio	1.66	1.75
						Soil PH	Mentioned in tables given below	
						Soil OC (%)		
						Soil EC (dS/m)		
						Available N (Kg/ha)		
						Available P (Kg/ha)		
						Available K (Kg/ha)		
						Soil Microbes (cfu)		
						Any other, specify		
Feedback								

of farmer

Demonstration Information

Farmer wise information of demonstration conducted till date			
Name of State	Bihar		
Name of Farmers	Shri Niteshwar Dubey, Sohel Dubey, Nitish Ranjan, Umesh Ram, Shiv Shankar Chaudhary, Ramesh Chowe, Narender Chowe, Ravi Ranjan Rai		
Address of Farmer	1. Shri Niteshwar Dubey: Vill: Sipaya; Block: Kuchaikote 2. Sohel Dubey: Vill: Sipaya; Block: Kuchaikote 3. Nitish Ranjan: Vill: Sipaya; Block: Kuchaikote 4. Umesh Ram: Vill: Sipaya; Block: Kuchaikote 5. Shiv S. Chaudhary: Vill: Bhoj chhapar; Block: Kuchaikote 6. Ramesh Chowe: Vill: Shyampur; Block: Kuchaikote 7. Narender Chowe: Vill: Shyampur; Block: Kuchaikote 8. Ravi Ranjan Rai: Vill: Baraipatti; Block: Gopalganj		
AgroClimatic Zone of farmer	Zone-I		
Cropping pattern of farmer' plot	Rice-Wheat		
Farming Situation of the Selected KVK	Low land and rainfed	Latitude (N)	
		Longitude (E)	
		Already mentioned above	

Name of Activity	Crop	Variety	Season (Kharif /Rabi/ Summer)	Name of Natural Farming components/Technology demonstrated	Area (ha)in Natural farming practice	Detail of farmer practice	Observations Recorded		
							Name of parameter	Performance	
								Without NF practice	With NF practice
	Wheat	HD-2967	Rabi (2022-23)	Jeevamrit, Ghanjeevamrit, Neemastra, Brahmastra, Angniastra, Dashparni ark	01 acre	Chemical farming	Plant height (cm)		
							Other relevant parameter		
							Yield (q/ha)	34.30	25.08
							Cost of cultivation (Rs/ha)	39775	23375
							Gross Return	75460	55176

							(Rs/ha)		
							Net Return (Rs/ha)	35685	31801
							B:C Ratio	1.89	2.36
							Soil PH	Mentioned in tables given below	
							Soil OC (%)		
							Soil EC (dS/m)		
							Available N (Kg/ha)		
							Available P (Kg/ha)		
							Available K (Kg/ha)		
							Soil Microbes (cfu)		
							Any other, specify		

Demonstration Information**Farmer wise information of demonstration conducted till date**

Name of State		Bihar	
Name of Farmers		Shri Niteshwar Dubey, Soheli Dubey, Nitish Ranjan, Umesh Ram, Shiv Shankar Chaudhary, Ramesh Chowe, Narender Chowe, Ravi Ranjan Rai	
Address of Farmer		1. Shri Niteshwar Dubey: Vill: Sipaya; Block: Kuchaikote 2. Soheli Dubey: Vill: Sipaya; Block: Kuchaikote 3. Nitish Ranjan: Vill: Sipaya; Block: Kuchaikote 4. Umesh Ram: Vill: Sipaya; Block: Kuchaikote 5. Prabhakar Dubey: Vill: Sipaya; Block: Kuchaikote 6. Ramesh Chowe: Vill: Shyampur; Block: Kuchaikote 7. Narender Chowe: Vill: Shyampur; Block: Kuchaikote 8. Ravi Ranjan Rai: Vill: Baraipatti; Block: Gopalganj	
AgroClimatic Zone of farmer		Zone-I	
Cropping pattern of farmer' plot		Rice-Wheat	
Farming Situation of the Selected KVK	Low land and rainfed	Latitude (N)	Longitude (E)
		Already mentioned above	

Name of Activity	Crop	Variety	Season (Kharif /Rabi/ Summer)	Name of Natural Farming components/Technology demonstrated	Area (ha)in Natural farming practice	Detail of farmer practice	Observations Recorded		
							Name of parameter	Performance	
								Without NF practice	With NF practice
	Paddy	R. Mansuri	Kharif-2023	Jeevamrit, Ghanjeevamrit, Neemastra, Brahmastra, Angniastra, Dashparni ark	01 acre	Chemical farming	Plant height (cm)		
							Other relevant parameter		
							Yield (q/ha)	19.20	11.19
							Cost of cultivation (Rs/ha)	38500	27680
							Gross Return (Rs/ha)	41913.6	24427.77
							Net Return (Rs/ha)	-3252.23	3413.6
							B:C Ratio	1.09	0.88
							Soil PH	Mentioned in tables given below	
							Soil OC (%)		
							Soil EC (dS/m)		
							Available N (Kg/ha)		
							Available P (Kg/ha)		
							Available K (Kg/ha)		
							Soil Microbes (cfu)		
							Any other, specify		

Demonstration Information

Farmer wise information of demonstration conducted till date

Name of State	Bihar
Name of Farmers	Shri Niteshwar Dubey, Sohel Dubey, Nitish Ranjan, Umesh Ram, Shiv Shankar Chaudhary, Ramesh Chowe, Narender Chowe, Ravi Ranjan Rai

Demonstration Information

Farmer wise information of demonstration conducted till date							
Name of State		Bihar					
Name of Farmers		Shri Niteshwar Dubey, Sohel Dubey, Nitish Ranjan, Umesh Ram, Shiv Shankar Chaudhary, Ramesh Chowe, Narender Chowe, Ravi Ranjan Rai					
Address of Farmer		1. Shri Niteshwar Dubey: Vill: Sipaya; Block: Kuchaikote 2. Sohel Dubey: Vill: Sipaya; Block: Kuchaikote 3. Nitish Ranjan: Vill: Sipaya; Block: Kuchaikote 4. Prabhakar Dubey: Vill: Sipaya; Block: Kuchaikote 5. Ramesh Chowe: Vill: Shyampur; Block: Kuchaikote 6. Narender Chowe: Vill: Shyampur; Block: Kuchaikote 7. Ravi Ranjan Rai: Vill: Baraipatti; Block: Gopalganj 8. Punit Mishra: Block: Kateya 9. Vijay Sharma: Block: Kateya 10. Lalan Yadav: Block: Gopalganj 11. Shambhu Prasad: Block: Kuchaikote					
AgroClimatic Zone of farmer		Zone-I					
Cropping pattern of farmer' plot		Rice-Wheat					
Farming Situation of the Selected KVK		Low land and rainfed	<table border="1"> <thead> <tr> <th>Latitude (N)</th> <th>Longitude (E)</th> </tr> </thead> <tbody> <tr> <td colspan="2">Already mentioned above</td> </tr> </tbody> </table>	Latitude (N)	Longitude (E)	Already mentioned above	
Latitude (N)	Longitude (E)						
Already mentioned above							

Name of Activity	Crop	Variety	Season (Kharif /Rabi/ Summer)	Name of Natural Farming components/Technology demonstrated	Area (ha)in Natural farming practice	Detail of farmer practice	Observations Recorded		
							Name of parameter	Performance	
								Without NF practice	With NF practice
	Paddy	R. Mansuri	Kharif-2024	Jeevamrit, Ghanjeevamrit, Neemastra, Brahmastra, Angniastra, Dashparni ark	01 acre	Chemical farming	Plant height (cm)		
							Other relevant parameter		
							Yield (q/ha)	29.91	21.64
							Cost of cultivation (Rs/ha)	39409.09	27040.91

										Gross Return (Rs/ha)	68790.91	49763.64
										Net Return (Rs/ha)	29381.82	22722.73
										B:C Ratio	1.75	1.84
										Soil PH	Mentioned in tables given below	
										Soil OC (%)		
										Soil EC (dS/m)		
										Available N (Kg/ha)		
										Available P (Kg/ha)		
										Available K (Kg/ha)		
										Soil Microbes (cfu)		
										Any other, specify		

Information of Farmer Already Practicing Natural Farming

S. No.	Name of District	Name of Farmer	Name of Village and address with contact No	No. of Indigenous (Desi Cows)	Land Holding (ha)	Normal Crops Grown	No. of Years practicing in Natural Farming	Area (ha) Covered under Natural Farming	Crop Grown under Natural Farming	Natural Farming Technology practicing/ adopted	Observations Recorded		
											Name of parameter	Performance	
												Without NF practice	With NF practice
											Plant height (cm)		
											Other relevant parameter		
											Yield (q/ha)		
											Cost of cultivation (Rs/ha)		
											Gross Return (Rs/ha)		
											Net Return (Rs/ha)		

Rabi (2023-24)	Wheat	8.59	0.18	0.70	308.35	59.41	257	-	Soil samples submitted for analysis
Kharif (2024)	Paddy	Soil samples submitted for analysis							

Soil Parameter for Non-Demo plot at KVK Farm

Season	Crop	Before crop sowing							After harvesting						
		pH	EC (dS/m)	OC (%)	N (Kg/ha)	P(Kg/ha)	K (Kg/ha)	Soil Microbes (cfu)	pH	EC (dS/m)	OC (%)	N (Kg/ha)	P(Kg/ha)	K (Kg/ha)	Soil Microbes (cfu)
Rabi (2022-23)	Maize + Lentil	-	-	-	-	-	-	-	8.69	0.41	0.82	366	91	151	-
Kharif (2023)	Paddy	8.69	0.406	0.82	366	91	151	-	8.31	0.53	0.48	251.92	63.99	262	-
Rabi (2023-24)	Wheat	8.31	0.53	0.48	251.92	63.99	262	-	Soil samples submitted for analysis						
Kharif (2024)	Paddy	Soil samples submitted for analysis													

Soil Parameter for Demo plot at Farmers Field

Season	Crop	Before crop sowing							After harvesting						
		pH	EC (dS/m)	OC (%)	N (Kg/ha)	P (Kg/ha)	K (Kg/ha)	Soil Microbes (cfu)	pH	EC (dS/m)	OC (%)	N (Kg/ha)	P (Kg/ha)	K (Kg/ha)	Soil Microbes (cfu)
Rabi (2022-23)	Wheat	7.68	0.775	0.95	377.33	30.83	160.67	-	8.13	0.541	0.90	354.17	25	151.83	-
Kharif (2023)	Paddy	8.13	0.541	0.90	354.17	25	151.83	-	8.46	0.38	0.50	256.73	63.48	291.63	
Rabi (2023-24)	Wheat	8.46	0.38	0.50	256.73	63.48	291.63		Soil samples submitted for analysis						
Kharif (2024)	Paddy	Soil samples submitted for analysis													

Soil Parameter for Non- Demo plot at Farmers Field

Season	Crop	Before crop sowing							After harvesting						
		pH	EC (dS/m)	OC (%)	N (Kg/ha)	P (Kg/ha)	K (Kg/ha)	Soil Microbes (cfu)	pH	EC (dS/m)	OC (%)	N (Kg/ha)	P (Kg/ha)	K (Kg/ha)	Soil Microbes (cfu)

Rabi (2022-23)	Wheat	8.93	1.865	0.89	322	21	182	-	9.11	0.484	0.72	331	41	107	-
Kharif (2023)	Paddy	9.11	0.484	0.72	331	41	107	-	8.32	0.15	0.45	244.23	82.26	302	-
Rabi (2023-24)	Wheat								Soil samples submitted for analysis						
Kharif (2024)	Paddy	Soil samples submitted for analysis													

Glimpses of various Activities (Good Quality Action Photographs)				
Name of activity	1	2	3	4
Training programmes				
Awareness programmes				
Demonstrations (KVK/Farmer field)				
Any other activities (Method demonstrations)				

Financial information (2024)

Name of activity	Budget Expenditure (Rs. in Rs)			
	Number of activities organized	Budget sanction (Rs)	Budget expenditure (Rs)	Total Budget Expenditure (Rs)
Training	12	4,00,000.00	3,98,555.00	
Awareness Programme	22	1,64,404.00	67,612.00	
Demonstration	12	48,000.00	48,000.00	
Miscellaneous		86,317.00	25,550.00	
Total	46	6,98,721.00	5,39,717.00	

11.10 District Agro Meteorological Unit (DAMU) (NA)**11.11 KSHAMTA (NA)**

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

11.12 Agri-Drone (NA)**11.13 Augmenting Rapeseed- Mustard Production of Tribal Farmers of Jharkhand state for Sustainable Livelihood Security under Scheduled Tribe Component. (NA)****12. OTHER INFORMATION****12.1 Integrated Farming System (IFS) (NA)**

a. Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year

b. Activities under IFS

Sl. No.	Component Name	No. of KVKs under the Component	No. of Components established	Area (ha)	No. of Activities		No. of farmers benefited	
					Demo	Training	Demo	Training
1.								

12.2. Report on Digital Farming Initiatives in Agriculture/ Digital Ag. Extension Service

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I					
II					
Total					

12.1 PPV & FRA Programme (NA)

Date of training/awareness programme	Venue	Resource Person	No. of participants

Details of plant varieties registered

Name of crop Registered	Year of registration	Registration number	Farmer name and details	Adress of the farmers

12.2 a. Observation of Swachhta hi Sewa (2nd -31st Oct 2024)

Date/ Duration	Total No of Activities undertaken	No. of Participants

of Observation		Staffs	Farmers	Others	Total
02.10.2024 (Swachh Bharat Diwas) alongwith activities on other days of the month	11	09	150	00	159

b. Observation of Swachta Pakhwada (15 Dec -31st Dec 2024)

Date/ Duration of Observation	Total No of Activities undertaken	No. of Participants			
		Staffs	Farmers	Others	Total
December month	08	09	70	00	79

c. Details of total budget expenditure on Swachh activities including SAP (NA)

S.No	Activities	No of village covered	Total Expenditure (Rs.in Lakhs)
1.	Vermicomposting		
S.No	Activities	Name of activities conducted	Total Expenditure
1.	Activities under Swachata Other than vermicomposting		

12 Good quality action photographs with caption in JPEG FORMAT SEPARATELY of overall achievements of KVK during the year (best 10)



PF training under Ag. Engineering discipline



PF training under Home Science discipline



PF training under Plant Protection discipline



PF training under crop production discipline

Vegetable seedlings raised for sale purpose



RY training programme under Plant Protection discipline

RY training programme under Ag. Engineering discipline



Exposure visit of farmers from KVK Saraiya at KVK Gopalganj



Application of decomposer in paddy straw



Field visits



FLD under Ag. Engineering



Rabi Mahabhiyan



Exposure visit of JNV students



Poshan Vatika at KVK Gopalganj



Field Visit