



Annual Action Plan

(1st January 2025 - 31st December 2025)

KRISHI VIGYAN KENDRA, KHAGARIA
(Bihar Agricultural University, Sabour, Bhagalpur)

1. GENERAL INFORMATION ABOUT THE KVK

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

Name and address of KVK	Telephone		E-Mail
	Office	FAX	
KrishiVigyan Kendra, Khagaria	NA	NA	kvkhhagaria@gmail.com

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

Name and address of Host Organization	Telephone		E mail	Website
	Office	FAX		
Bihar Agricultural University, Sabour, Bhagalpur, Bihar	NA	NA	deebausabour@gmail.com	bausabour.ac.in

1.2 b. Status of KVK website : Yes Date when the website last updated :- **10.06.2025**

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

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

a) No of PC units :-**10**

b) No of Printers :-**04**

c) Internet Connection :-**Yes**

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Sri N.K. Singh	KVK, Khagaria	7903714090	kvkhhagaria@gmail.com

1.4. Year of sanction of KVK : F.No. 602/2010 – AE - I

1.5. Staff Position (as on 31st December 2024)

[illegible]

[illegible]

15	Supporting staff	Vacant											
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1.6. Total land with KVK (in ha) : 12.5 ha

S. No.	Item	Area (ha)
1	Under Buildings	1.00
2.	Under Demonstration Units (NHM + IFS)	1.50
3.	Under (Seed Production)	7.00
4.	Under CRA(LTE Plot)	1.00
5.	Approach Road and others	2.00
Total		12.50

1.7 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding		Stage					
				Complete			Incomplete		
		ICAR	RKVY	Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR		2014	550 m2		2012		Completed
2.	Farmers Hostel	ICAR		2013	309.73 m2		2012		Completed
3.	Staff Quarters (6)	ICAR		2013	334 m2		2012		Completed
4.	Piggery unit	ICAR			-				
5	Fencing	-			3000m2		2018		Needed
6	Rain Water harvesting structure	ICAR			-				
7	Threshing floor	ICAR		2021	1200 m2		2019		Completed
8	Farm godown	ICAR		2021	200 m2		2019		Completed
9	Dairy unit				-				
10	Poultry unit	Bihar Govt.		2022	200 sq. ft.				Completed
11	Goatary unit				-				
12	Mushroom production unit				150 m2				Completed
13	Implement Shade house	Bihar Govt.			375 sq. ft.				Completed

14	Soil testing Lab				-				
15	Net house	NHM			500 m2				Completed
16	Poly house	NHM			300 m2				Completed
17	Nutri Garden	ICAR		2021	150 m2				Completed
18	IFS Model	Bihar Govt.		2021	1 acre				Completed
19	Small Nursery Model	Bihar Govt.		2021	1.0 ha				Completed
20	Vermicompost Unit (SwachhataAbhiyan)	ICAR		2022	60 Sq.ft				Completed

B) Vehicles

Type of vehicle	Year of purchase	Source (ICAR/RKVY)	Cost (Rs.)	Total kms. run as on December, 2024	Present status
Bolero Jeep (BR 34P 1864)	2012	ICAR	512300.00	242232 Km.	Extremely Poor Condition
Tractor Mahindra (25 HP)	2012	ICAR	434000.00	1786 hr.	Average Condition
Tractor Holand (55 HP)	2022	ICAR	941151.70	336 hr.	Good Condition
Motorcycle 1 (BR34J - 9294)	2015	ICAR	60000	32693 Km.	Average Condition
Motorcycle 2 (BR34J - 9295)	2015	ICAR	60000	32134 Km.	Average Condition

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
GPS Navigator	2016	17593.00	Good	ICAR
Compound Microscope	2016	34780.00	Good	ICAR
Mini Soil Test Kit	2017	170016.00	Not working	ICAR
Augur Pipe	2020	200.00	Poor Condition	GKMS
b. Farm machinery				
Diesel Pump Set	2012	39,000.00	Not working	ICAR
Tractor	2012	434000.00	Average Condition	ICAR
c. AV Aids				
Computer (HP), printer & scanner	2013	47,067.00	Good	ICAR
HP Slim Desktop, 10 th Generation	2022	39990.00	Good	ICAR
Kingston 240 GB, SSD	2022	4000.00	Not working	ICAR
HP Slim Desktop, 10 th Generation	2022	40000.00	Good	ICAR
Kinhrdyon 240 GB, SSD	2022	4000.00	Good	ICAR
Sandisk 128 GB Extreme micro SD	2022	3400.00	Not working	ICAR
ATDS Collar Microphone (UH600)	2022	24000.00	Good	ICAR
Seagate	2022	6200.00	Not working	ICAR
Laptop (15.6" Led)	2022	65100.00	Good	ICAR
Printer (HP Never stop)	2022	15169.00	Average	ICAR

Laser)				
Speaker Ball Booster	2022	5932.20	Good	ICAR
Xerox Machine (RICOH)	2013	61,286.00	Not working	ICAR
Digital Camera (Sony)	2013	14,700.00	Not working	ICAR
Projector	2013	82,968.00	Not working	ICAR
Public Address System	2014	45,000.00	Good	ICAR
HP Laptop	2014	45000.00	Good	ICAR
Digital Camera (Sony)	2016	7990.00	Not working	ICAR
HP Laptop	2016	82583.00	Good	RKVY
Computer (Dell)	2016	90000.00	Good	ICAR
Xerox Machine (Xerox 5022) with Accessories	2016	90679.00	Not working	RKVY
Digital Camera (Cannon)	2016	29600.00	Not Working	RKVY
Video Camera Handy Cam (Sony)	2016	82871.00	Good	RKVY
Projector with Accessories	2016	52000.00	Not working	RKVY
CCTV	2016	33000.00	Good	ICAR
LED Flood Light	2016	6500	Good	RKVY
HP Laptop with Accessories	2019	58400	Good	GKMS
Mobile Phone (Redmi Note 5 Pro) 02 Nos.	2019	29000	Not working	GKMS
Motor	2019	29000.00	Good	CRA
PC Godrej Computer Table	2020	8543.00	Good	ICAR
Godrej (3 PC)	2020	46238.00	Good	ICAR
Godrej S/L (2 PC)	2020	27206.00	Good	ICAR
Godrej 4 Door book case	2020	23491.00	Good	ICAR

Godrej Table (4 PC)	2020	69668.00	Good	ICAR
Godrej Rack	2020	5469.00	Good	ICAR
Godrej Sofa (3 Seater)	2020	22653.00	Good	ICAR
Godrej Sofa (1Seater)	2020	14320.00	Good	ICAR
Godrej AC	2020	37400.00	Good	ICAR
KK Enterprises, Patna (50 Chair)	2022	93000.00	Good	ICAR
Samsung AC	2022	38000.00	Good	ICAR
Modern Cine sound service	2022	24000.00	Good	ICAR
Complete vision	2022	35000	Good	ICAR
Woodland Steel Khagaria	2022	22892	Good	ICAR
Woodland Steel Khagaria	2022	13688	Good	ICAR
Banana Fiber Extraction Machine	2022	75000	Good	ICAR
Mobile (Samsung)	2024	20000	Good	ICAR
GM AtrblastFaratta Fan (02 Pc)	2023	6525.42	Good	Bihar Govt.
EPSON Projector	2024	79000.00	Good	Bihar Govt.
Mantra IRIS Biometric Scanner	2024	7300.00	Good	ICAR Fund
Brush Cutter Aspee 2 stroke sidepade	2024	13,500.00	Good	ICAR Fund
HP Desktop Computer	2024	70,000.00	Good	ICAR Fund
UPS delta Vx600 VA	2024	2700.00	Good	ICAR Fund
Chair (04)	2024	22,000.00	Good	ICAR Fund
Trunk (02 Pc)	2024	9,600.00	Good	ICAR Fund

D) Farm implements

Name of Implements	Year of purchase	Cost (Rs.)	Present status	Source of fund
9 Tine Cultivator	2012	22000.00	Not working	ICAR
Disc harrow	2013	44000.00	Good	ICAR
Zero Till Drill Machine (9 Tine)	2014	38,500.00	Not Working	ATMA
9 Tine Cultivator	2017	17000.00	Good	ICAR
Happy Seeder (02)	2019	Central purchasing	Non working	Bihar Govt.
Maize Planter (CRA)	2020	73000.00	Good	Bihar Govt.
National Multi Crop Planter (11 Row)	2022	88019.00	Good	Bihar Govt.
Rice Wheat Seeder (2 PC)	2022	20000.00	Good	Bihar Govt.
Tractor Trolley	2022	179200.00	Good	Bihar Govt.
High Speed Hay Rack	2022	379724.00	Good	Bihar Govt.
Weighing Machine	2022	3800.00	Good	Bihar Govt.
Self Propelled vertical convener Reaper	2022	124803.00	Good	Bihar Govt.
Weeder&Ridger	2022	50910.00	Good	Bihar Govt.
Laser Land leveler	2022	272321	Good	Bihar Govt.

Raised Bed Planter	2022	88392.00	Good	Bihar Govt.
Thresher	2022	156000.00	Good	Bihar Govt.
Straw Bailer (Shaktiman)	2022	1238980.00	Good	Bihar Govt.
National Zero Till Seed Cum Fertilizer	2022	141000.00	Good	Bihar Govt.
SonalikaRotavator	2022	108000.00	Good	Bihar Govt.
Tractor Mounted Sprayer	2022	193520.00	Good	Bihar Govt.
Drum Seeder 06 Piece	2022	54000.00	Good	Bihar Govt.
Punching Dibbler	2024	2155.00	Good	ICAR Fund
Rotary Dibbler	2024	8182.00	Good	ICAR Fund

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

Sl.No.	Date
1. Scientific Advisory Committee	22.05.2025

Suggestions of SAC meeting

Salient Recommendations	Action Taken
Prepare impact analysis of five selected village under CRA prog and to be informed to agriculture dept.	Impact analysis has been prepares by centers & agriculture dept has been informed about this.
To develop coordination among all related officials and to be informed about different training prog. conducted at center	Coordination has been developed with officials of agriculture & allied dept. for conduction of training at center.
Training & demonstration to conducted to promote cultivation of apple ber	Training & demonstration has been conducted for promotion & area

	expansion of apple ber.
Popularize the app develop by university.	Advertisement has been done to popularize apps developed by university among farmers.
Conduct training & fish farming by coordination with fisheries dept.	Training & awareness among farmers were created about fish farming by coordination with fisheries dept officials.
Conduct training & demonstration to promote direct seeded rice among farmers.	Training & awareness has been conducted to popularize direct seeded rice among farmers.
Enrich crop cafeteria with millets to create awareness among farmers.	Crop cafeteria has been developed to popularize millets among farmers along with this training has been conducted on millets cultivation among farmers.
Develop upto 1500 seedlings and saplings of fruits & vegetables at centers nursery.	More than 15000 seedlings & saplings of fruit & vegetable has been developed at centers nursery.
Develop CRA adopted villages as mushroom village.	Amni village has been developed as mushroom village.
Napier grass should be involved in centers FLD prog. & should be demonstrated among farmers.	Napier grass has been included in FLD & demonstration has been conducted among farmers.

2. DETAILS OF MICRO-FARMING SITUATIONS OF THE DISTRICT

2.1 Micro-farming situations

a) Characteristics

S.No.	Agro-Ecological situations (AES)	Existing Farming System (Crop+livestock+others)	Major soil types
1	AES 1 (Name)	Rice-Wheat/Maize	Sandy Loam & Clay Soil
2	AES 2 (Name)	Maize- Wheat/Maize	Sandy Loam & Clay Soil
3	AES 3 (Name)	Rice-Wheat-Green gram	Sandy Loam & Clay Soil

b) Land Characteristics

S.No	Agro-Ecological Situation (AES)	Topography	Drainage
1.	AES-1 (Name)	Surrounding Rivers, Alluvial Plains Flooding Elevation Swampy areas	Ganga, Koshi, BudhiGandak, Kamla, Blan&Bagmati
2.	AES-2 (Name)	Surrounding Rivers, Alluvial Plains Flooding Elevation Swampy areas	Ganga, Koshi, BudhiGandak, Kamla, Blan&Bagmati
3.	AES-3 (Name)	Surrounding Rivers, Alluvial Plains Flooding Elevation Swampy areas	Ganga, Koshi, BudhiGandak, Kamla, Blan&Bagmati

c) AES-wise major problems

S.No	Agro-Ecological Situation (AES)	Major problems	Rank
1.	AES-1 (Name)	Flood & droughts Inadequate irrigation Soil Degradation	1 2 3
2.	AES-2 (Name)	Flood & droughts Inadequate irrigation Soil Degradation	1 2 3
3.	AES-3 (Name)	Flood & droughts Inadequate irrigation Soil Degradation	1 2 3

2.2. Area, Production and Productivity of major crops cultivated in the district (2024)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)	Yield gap (q/ha) with respect to demo of last year	Yield gap (q/ha) with respect to potential yield
1	Rice	17669	25561	28.37	(-) 14.98	(-) 21.63
2	Maize	18195	39483.15	21.70	(-) 18.15	(-)19.30
3	Urad	2205	1941	11.86	NA	(-)01.14
4	Small Millets	653	491	7.52	NA	(-)01.48
5	Sunflower	653	968	14.82	(-) 2.88	(-)3.18
6	Ragi	82	77	9.3	(-) 2.10	(-)2.50
7	Soybean	1555	877	5.64	(-) 6.01	(-)14.36
8	Turmeric	15	15.18	10.12	NA	NA
9	Maize	32871	248932	75.73	(-) 19.77	(-)24.27
10	Wheat	24283	73170	35.68	(-) 6.50	(-)9.32
11	Barley	55	65	16.41	NA	(-)3.59
12	Gram	12	14	8.69	NA	(-)9.31
13	Arahar	144	218	9.62	NA	(-)10.38
14	Kheshari	206	206	6.82	NA	(-)5.18
15	Lentil	471	382	8.23	(-) 2.44	(-)9.77
16	Pea	1026	1151	11.22	NA	(-)8.78

17	Kulthi	502	437	8.70	NA	(-)01.30
18	Maize	8415	43053	51.16	NA	(-)08.84
19	Moong	1332	738	5.54	(-) 2.16	(-)03.41
20	Mango	1642	15,763.20	96	NA	NA
21	Litchi	318	1100.28	34.6	NA	NA
22	Guava	411	2585.19	62.9	NA	NA
23	Banana	1310	58,950	450	129.47	(-)20.53
24	Papaya	330	828.96	25.12	NA	NA
25	Brinjal	1250	31,390	251.12	NA	NA
26	Okra	1226	19,866.10	162.039	NA	NA
27	Potato	4109	10,8654.29	264.4.3	NA	NA
28	Tomato	1200.98	30,345.88	252.675	NA	NA
29	Cauliflower	1259	20,353.12	161.66	NA	NA
30	Garlic	37	83	22.50	NA	NA
31	Louki	442	71,60.4	148.75	NA	NA
32	Parwal	450	70,60.5	156.90	NA	NA

Source : District agriculture department.

2.3. Weather data (2023-24)

Year	Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
2023	April	12.5				
	May	55.9				
	June	108.2				
	July	103.4				
	August	417.5				
	Sept.	373.6				
	Oct.	135.9				
	Nov.	0				
	Dec	4.0				
2024	Jan	0				
	Feb	4.3				
	March	42.1				
Total						

2.4 Production and productivity of livestock, Poultry, Fisheries etc. in the district (2024)

Category	Population	Production	Productivity	Productivity gap
Cattle				
Buffalo	91,831	1.47 mt.		
Sheep	187			
Goats	2,94,180	0.242 mt.		
Cattle	2,57,800	33.98 mt.		
<i>Crossbred</i>	2,05,926			
<i>Indigenous</i>	88,254			
Pigs				
Poultry				
Hens	1,22,311	3,36,35,525 eggs		
<i>Desi</i>				

Category		Production (q)	Productivity	
Fish (Reservoir)		388.8		

*Statistical report

2.5 Details of Operational area / Villages

Name of Taluk	Name of the block	Name of the village	Major crops & enterprises	Existing yield (q/ha, number/year)	Major problem identified (Crop-Wise)	Identified Thrust Areas
KHAGARIA	Khagaria	Ranko, Chandranagar, Mehsouri	Mango, Wheat, Paddy, Maize, Vegetables, Live Stock, Poultry, Dairy, Bee Keeping	Paddy-28.37 Maize (Kharif)21.70 Wheat -35.68 Maize (Rabi)- 75.73 Mango – 96.00 Coriander – 08.97 Okra – 162.03	Imbalanced use of fertilizers, Lack of proper package of practices for cereal crops, Poor productivity of orchards, Lack of proper management of insect pest and disease	Improved management of existing orchards, Introduction of high yielding varieties of crops, scientific cultivation of cereal crops, IPM and IDM. Scientific management of disease of poultry and feed management
	Mansi	Amni, Balha,	Mango, Wheat, Paddy, Maize, Vegetables, Sugarcane, Live Stock, Mushroom Production	Paddy-28.37 Maize (Kharif)21.70 Wheat -35.68 Maize (Rabi)- 75.73 Mango – 96.00 Coriander – 08.97 Okra – 162.03	Imbalanced use of fertilizers, Lack of proper package of practices of cereal crops, poor productivity of orchards, Lack of proper management of insect pest and disease	Improved management of existing orchards, Introduction of high yielding varieties of crops, scientific cultivation of cereal crops, IPM and IDM

	Alouli	Mujhouana , Asurar, Imli, BudhwaParri	Banana, bee keeping and mushroom cultivation.	Paddy-28.37 Maize (Kharif)21.70 Wheat -35.68 Maize (Rabi)- 75.73 Mango – 96.00 Coriander – 08.97 Okra – 162.03	Lack of knowledge about latest technology and income generation	Production , promotion and marketing of tissue culture Banana, bee keeping and mushroom cultivation
	Gogari	Pasraha, Sondiha, Dina Chakla, Mahadipur, Gouchhari,		Paddy-28.37 Maize (Kharif)21.70 Wheat -35.68 Maize (Rabi)- 75.73 Mango – 96.00 Coriander – 08.97 Okra – 162.03 Banana – 579.5		
	Choutham	Adabari, Devka, Malpa,	Banana, Mushroom cultivation	Paddy-28.37 Maize (Kharif)21.70 Wheat -35.68 Maize (Rabi)- 75.73 Mango – 96.00 Coriander – 08.97 Okra – 162.03	Lack of knowledge about latest technology and income generation	Production , promotion and marketing of tissue culture Banana, bee keeping and mushroom cultivation
	Parbatta	Karna, Teliabathan, Bandehra	Bee keeping, banana and Mushroom cultivation	Paddy-28.37 Maize (Kharif)21.70 Wheat -35.68 Maize (Rabi)- 75.73 Mango – 96.00 Coriander – 08.97 Okra – 162.03 Banana – 579.5	Lack of knowledge about latest technology and income generation	Production , promotion and marketing of tissue culture Banana, bee keeping and mushroom cultivation

	Beldour	Pansalwa	Mushroom cultivation Poultry (Chicks)	Paddy-28.37 Maize (Kharif)21.70 Wheat -35.68 Maize (Rabi)- 75.73 Mango – 96.00 Coriander – 08.97 Okra – 162.03	Lack of knowledge about latest technology and income generation	Production , promotion and marketing of bee keeping, chicks and mushroom cultivation
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2.6 Top five major priority thrust areas:

- i. Improving the productivity of cereals, oilseeds and horticulture crops.
- ii. Adoption of IPM & IDM for sustainable agriculture
- iii. Adoption of INM for sustainable agriculture.
- iv. Adoption of modern farming techniques.
- v. Income generation through development of agri based entrepreneurship.

3. TECHNICAL PROGRAMME

3 A. Details of targeted mandatory activities by KVK

OFT		FLD		
(1)		(2)		
Number of OFTs	Number of Farmers	Area (ha)	No of enterprises	Number of Farmers
08	61	84.40	04	110

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
60	1500	88	2945

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
142	20,000	-	-

Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Cropping System	Paddy	Low yield due to sowing practices	Assessment of Paddy productivity under different sowing methods					Seed, costing of zero tillage
2	Cropping System	Maize	Planting without proper spacing	Assessment of maize productivity under different planting methods.					Seed, costing of maize planter
3	Integrated Disease Management	Maize	Low yield of maize and yield loss up to 100 percent due to post flowering stalk rot of maize	Management of post flowering stalk rot disease of maize					Trichoderma viride & Harzianum, FYM, Vitavax, Difenconazole + Azoxystrobin
4	Crop management practices for quality fruit production	Banana	Poor quality of banana results in low yield as well as poor market value	Banana bunch covering technology for quality banana production					Non woven polypropylene bag, blue ventilated polythene sleeves
5	Flower based production system	Marigold	Lack of knowledge of flower cultivation	Evaluation of marigold varieties for higher productivity					Seed
6	Repair & maintenance of farm machinery & implements	Maize	Manual seeding, labour intensive, drudgery in operation & shortage of labour	Assessment of different planting machineries for maize crop					Manual Rotary Dibbler, Manual Dibber (Vertical)

7	Cropping System	Sesame	Less area of sesame crop		Demonstration on sesame crop, variety – GT 06	Scientific cultivation of sesame		Field Day	Seed
8	IPM	Mango	Red Banded Caterpillar		Demonstration on management of red banded caterpillar in mango	IPM in Mango		Field Day	Thiacloprid 21.7 SC
9	IDM	Banana	Panama Wilt		Demonstration on Trichoderma sp	IDM in banana		Field Day	Trichoderma
10	Flower based production system	Marigold	Lack of knowledge of flower cultivation		Demonstration on marigold variety – pusanarangi, pusabaha	Scientific cultivation of marigold		Field Day	Seed
11	Repair & maintenance of farm machinery & implements	Okra	Drudgery in operation & shortage of labour		Demonstration on okra harvested tool	Benefits of okra harvesting tool		Field Day	Okra harvesting tool

3.1 Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management	Paddy/M			Marigold		Banana				04

	Maize									
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction					Maize					01
Farm machineries										
Value addition										
Integrated Pest Management						Banana				01
Integrated Disease Management	Maize									01
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										

A.2. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Vermi culture	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

B. Details of all On Farm Trial in the given format

OFT :- 01Crop area of district :-17669 ha, District yield (14.478 Q/ha) State yield (24.47 Q/ha)

Crop	Paddy
Season	Kharif
Main problem	Low yield
Main cause	Traditional sowing practice
Title of OFT	Assessment of Paddy productivity under different sowing methods.
Farming situation	Medium land, Sandy loam & Irrigated
Thematic area	Cropping System
Farmer practice	Transplanting without puddling
Technology option selected for assessment	(a) Farmer Practice: Transplanting without puddling (b) Technological Option 1: Transplanting with puddling (c) Technological Option 2: Sowing with direct seeded rice technique
Source of technology	Source of Technology: BAU, Sabour
No of trial	10
Detail of critical input	Hiring cost of Zero tillage
Cost of individual critical input	Rs. 650/-
Total cost of critical input	Rs. 6500 /-
Performance indicator to be recorded	Technical Indicator :- No. of tillers/plant, test weight (g), Yield (q/ha) Economics indicator :- Cost of Cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) :- B:C ratio Farmers Feedback :- Farmer perception

OFT :-02 Crop area of district in ha :-32871, District yield (Q/ha):- 75.73 State yield (40.81 Q/ha)

Crop	Maize
Season	Rabi
Main problem	Low yield due to over plant population.
Main cause	Manual sowing
Title of OFT	Assessment of maize productivity under different planting methods.
Farming situation	Medium land, Sandy loam & Irrigated
Thematic area	Cropping System
Farmer practice	Manual sowing
Technology option selected for assessment	(a) Farmer Practice: Manual sowing (b) Technological Option 1: Raised Bed Planting (c) Technological Option 2: Planting with maize planter / Multi Crop Planter
Source of technology	Source of Technology: BAU, Sabour
No of trial	10
Detail of critical input	Hiring cost of maize planter
Cost of individual critical input	Rs. 650/-
Total cost of critical input	Rs. 6500 /-
Performance indicator to be recorded	Technical Indicator :- Yield (q/ha) Economics indicator :- Cost of Cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha) B:C ratio Farmers Feedback :- Farmer perception

OFT :- 03 Crop area of district in ha :-32871, District yield (Q/ha):- 75.73 State yield (40.81 Q/ha)

Crop	Maize
Season	Rabi
Main problem	Low yield of maize and yield loss up to 100 percent due to post flowering stalk rot of maize
Main cause	Fungal Pathogen Fusarium and Macrophomina
Title of OFT	Management of post flowering stalk rot disease of maize
Farming situation	Sandy loam, Paddy-Maize based farming system
Thematic area	Integrated Disease Management

Farmer practice	Spray with Carbendazim +Mancozeb@2g/lit. of water
Technology option selected for assessment	TO-2 Seed treatment with Trichoderma viride@5g/kg seed + soil application of TrichodermaHarzianum 2.0% formulation @10 g per kg FYM incubated for 10 days in moist condition TO-3 Seed treatment with Vitavax 200 WS@2.5 g/kg seed + Two foliar spray of Difenconazole + Azoxystrobin @ 1ml/lit. at pre flowering stage and second spray at 25 days after first spray.
Source of technology	IARI, New Delhi (2022)
No of trial	10
Detail of critical input	Trichodermaviride&Harzianum, Vitavax, Difenconazole + Azoxystrobin
Cost of individual critical input	Rs. 420.00
Total cost of critical input	Rs. 7000.00
Performance indicator to be recorded	Technical indicator :- No of cobs/plant, No of grains/cob, Yield (q/ha) Economics indicator :- Cost of Cultivation (Rs/ha), Gross return (Rs/ha), Net return (Rs/ha), B:C ratio Farmer perception :- Farmer perception

OFT :- 04 Crop area of district :- 1350 ha , District yield (450 Q/ha) State yield (450 Q/ha)

Crop	Banana
Season	Annual
Main problem	low yield as well as poor market value
Main cause	Poor Crop Management Practices
Title of OFT	Assessment of Banana bunch covering technology for quality banana production
Farming situation	Sandy loam, medium land
Thematic area	Crop management practices for quality fruit production
Farmer practice	FP-No covering used in Banana bunches
Technology option selected for assessment	(i) TO 1- Cover the banana bunches with Non woven polypropylene bag (ii) TO 2- Cover the banana bunches with ventilated(4%) polythene sleeves
Source of technology	TNAU
No of trial	10

Detail of critical input	Non woven polypropylene bag, polythene sleeves
Cost of individual critical input	10,000/ Unit
Total cost of critical input	20,000
Performance indicator to be recorded	Technical indicators: :- Yield (q/ha), Fruit weight (gm) Economics indicator :- Cost of cultivation (Rs/ha) , Gross return (Rs/ha), Net return , B:C Ratio Farmer perception :- Farmer perception

OFT :- 05 Crop area of district :- 05 ha , District yield (124 Q/ha) State yield (191 Q/ha)

Crop	Marigold
Season	Rabi
Main problem	Lack of knowledge of flower cultivation
Main cause	Lack of awareness for flower cultivation
Title of OFT	Evaluation of marigold varieties for higher productivity
Farming situation	Sandy loam, medium land
Thematic area	Flower based production system
Farmer practice	FP- LadduGainda (local variety)
Technology option selected for assessment	TO 1-Pusa Narangi TO 2-Pusa Bahar TO 3-Pusa Basanti TO 4-Arka Bhanu
Source of technology	IARI New Delhi, IIHR, Bangalore
No of trial	10
Detail of critical input	Seed
Cost of individual critical input	2500 / Unit
Total cost of critical input	10,000
Performance indicator to be recorded	Technical indicators: Flower yield per plant(gm), Total number of flower per plant , Flowering duration (days) Economic Indicators: Cost of cultivation (Rs./ha), Gross return (Rs./ha), Net return (Rs./ha), B:C Ratio Farmer feedback :- Farmers Perception

OFT :- 06 Crop area of district in ha :-32871, District yield (Q/ha):- 75.73 State yield (40.81 Q/ha)

Crop	Maize
Season	Rabi
Main problem	Drudgery in operation & shortage of labour
Main cause	Manual seeding, labor intensive
Title of OFT	Assessment of different planting machineries for maize crop
Farming situation	Sandy loam, medium land type, irrigated area, Rabi season, previous crop - Rice
Thematic area	Farm Machinery
Farmer practice	TO-0: Manual Seeding (Farmer Practice)
Technology option selected for assessment	TO-1: Manual Dibber (Vertical) TO-2: Manual Rotary Dibbler
Source of technology	CIAE Bhopal
No of trial	10 (Total area is 1 ha)
Detail of critical input	Manual Rotary Dibbler, Manual Dibber (Vertical)
Cost of individual critical input	Rs. 13000/- Rs. 4500/-
Total cost of critical input	Rs. 17500/-
Performance indicator to be recorded	Technical indicators: No. Of plant/m ² (No. count), No of irrigation (No.), Yield (q/ha), Plant height (cm), Seed placement accuracy (depth & spacing consistency), field efficiency (ha/hr), Seedling emergence rate. Economic Indicators: Cost of cultivation (Rs./ha), Gross return (Rs./ha), Net return (Rs./ha), B:C Ratio Farmer feedback :- Farmers Perception

3.2 Frontline Demonstrations

A Details of FLDs to be organized -

Sl. No	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demon.	Parameters identified (Yield related attributes, yield economics and farmers' perception)
1	Sesame	Cropping System	Variety (GT 06), Sowing time- Last week of June to first week of July, Seed rate- 05 kg/ha.	Seed	Kharif, 2025	4.0	10	(1) Technical indicator :- Yield q/ha (2) Economic indicator :- Cost of Cultivation(Rs./ha), Gross Return (Rs./ha), Net return (Rs./ha), B:C ratio. (3) Farmer Feedback- Farmers perception
2	Mango	Integrated Insect Management in Mango	Insecticide 02 spray of Thiocloprid 21.7 SC @ 2 ml/lit at 25-30 days interval (OFT)	Insecticide	Rabi, 2025	20	50	Technical indicator :- Yield q/ha Economic indicator :- Cost of Cultivation(Rs./ha), Gross Return (Rs./ha), Net return (Rs./ha), B:C ratio. Farmer Feedback :- Farmers perception
3	Banana	Integrated Disease Management	Soil application of Trichoderma Harzaianum @10gm per kg of FYM for incubation of 10 days in moist condition.	Trichoderma	Annual Crop, 2025	0.4	20	(I) Technical indicator :- Yield q/ha (II) Economic indicator :- Cost of Cultivation(Rs./ha), Gross Return (Rs./ha), Net return (Rs./ha), B:C ratio. (III) Farmer Feedback :- Farmer perception
4	Okra	Repair & Maintenance of Farm Machinery & implements	Okra harvesting through okra harvester tool	Tools	Summer & 2025	0.4	20	1. Technical indicator :- Harvesting efficiency(ha/hr.) 2. Economic indicator :- Cost of plucking 3. Farmer Feedback :- Farmer perception
5	Marigold	Flower based production system	Variety- PusaNarangi, PusaBahar	Marigold	Rabi 2025	0.4	10	(1) Technical indicator :- Yield q/ha (2) Economic indicator :- Cost of Cultivation(Rs./ha), Gross Return (Rs./ha), Net return (Rs./ha), B:C ratio.

								(3) Farmer Feedback- Farmers perception
TOTAL						25. 2	110	

Sponsored Demonstration

Crop	Area (ha)	No. of farmers

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Farmers Training	04	September, October, November,	200
2	Field days	06	September, October, November, December	300
3	Media coverage	06	Aug to Dec, 2025	Mass
4	Training for extension functionaries	03	Aug to Dec, 2025	75-80

C. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators
Okra harvesting through okra harvester tool	Okra	Summer & 2025	20	0.4		1. Technical indicator :- Harvesting efficiency(ha/hr.) 2.Economic indicator :- Cost of plucking 3.Farmer Feedback :- Farmer perception

(ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / indicators
Backyard Poultry Farming	Chicks (Vanraja)	50	2500	Chicks & Accessories	Egg production / bird, B:C ratio, Net income

Details of all FLD

FLD No: 01

Title of FLD	Demonstration on Sesame crop, Variety – GT 06		
Season & Year	Kharif, 2025		
Main Problem	Lack of awareness.		
Main cause of problem	Less area of Sesame crop.		
Full detail of farmer's Practice	NA		
Full detail of technology to be demonstrated	Variety (GT 06), Sowing time- Last week of June to first week of July, Seed rate- 05 kg/ha.		
Source of Technology with year	BAU, Sabour		
Name of the Technology	GT 06		
Thematic area	Cropping System		
Name of villages	Imli		
Farming situation	Irrigated		
Area (ha)/Unit (No.)	4.0	No of farmers	10
Performance indicator	(1) Technical indicator :- Yield q/ha (2) Economic indicator :- Cost of Cultivation(Rs./ha), Gross Return (Rs./ha), Net return (Rs./ha), B:C ratio. (3) Farmer Feedback- Farmers perception		

FLD No: 02 Crop area of district :- 1642 in ha, District yield (96 Q/ha) State yield (89.98 Q/ha)

Title of FLD	Demonstration on Management of Red Banded Caterpillar in Mango		
Season & Year	Rabi, 2025		
Main Problem	Low yield		
Main cause of problem	Red Banded Caterpillar		
Full detail of farmer's Practice	Spray of Chlorpyrifos as and when symptoms appear		
Full detail of technology to be demonstrated	Two sprays of Thiacloprid 21.7 SC 0.04 %@(2ml/lit of water) at 25 – 30 days interval.		
Source of Technology with year	NCIPM, New Delhi (2022)		
Name of the Technology	Insecticide 02 spray of Thiacloprid 21.7 SC @ 2 ml/lit at 25-30 days interval (OFT)		

Thematic area	Integrated Insect Management in Mango		
Name of villages	Balha		
Farming situation	Upland to midland, Sandy loam and Irrigated		
Area (ha)/Unit (No.)	20	No of farmers	50
Performance indicator	I. Technical indicator :- Yield q/ha II. Economic indicator :- Cost of Cultivation(Rs./ha), Gross Return (Rs./ha), Net return (Rs./ha), B:C ratio. III. Farmer Feedback :- Farmers perception		

FLD No: 03 Crop area of district :- 1350 ha , District yield (450 Q/ha) State yield (450 Q/ha)

Title of FLD	Demonstration on Trichodermasp in Banana		
Season & Year	Annual Crop, 2025		
Main Problem	Yield losses		
Main cause of problem	Disease (Panama Wilt)		
Full detail of farmer's Practice	Lack of awareness of management practices		
Full detail of technology to be demonstrated	Soil application of TrichodermaHarzaianum @10gm per kg of FYM for incubation of 10 days in moist condition.		
Source of Technology with year	BAU, Sabour, Bhagalpur (2021)		
Name of the Technology	Soil application of TrichodermaHarzaianum@10gram per kg of FYM for incubation of 10 days in moist condition.		
Thematic area	Integrated Disease Management		
Name of villages	Kulahariya		
Farming situation	Irrigated		
Area (ha)/Unit (No.)	0.4	No. Of Farmers	20
Performance indicator	(IV) Technical indicator :- Yield q/ha (V) Economic indicator :- Cost of Cultivation(Rs./ha), Gross Return (Rs./ha), Net return (Rs./ha), B:C ratio. (VI) Farmer Feedback :- Farmer perception		

FLD No: 04 Crop area of district :-1226 ha , District yield (162.039 Q/ha) State yield (137.2 Q/ha)

Title of FLD	Demonstration on Okra Harvester Tool		
Season & Year	Summer & 2025		
Main Problem	Labour intensive, drudgery in operation, shortage of labour and time consuming		
Main cause of problem	Lack of awareness about Okra Harvester Tool		
Full detail of farmer's Practice	Manual Harvesting		
Full detail of technology to be demonstrated	Okra harvesting through okra harvester tool		
Source of Technology with year	Dr. RPCAU, Pusa, Samastipur (2021)		
Name of the Technology	Okra Harvester Tool		
Thematic area	Repair & Maintenance of Farm Machinery & implements		
Name of villages	Ranko (Khagaria), Haripur (Alauli)		
Farming situation	Medium Land		
Area (ha)/Unit (No.)	60	No of farmers	30
Performance indicator	1. Technical indicator :- Harvesting efficiency(ha/hr.) 2. Economic indicator :- Cost of plucking 3. Farmer Feedback :- Farmer perception		

FLD No: 05 Crop area of district :-05 ha , District yield (124 Q/ha) State yield (191 Q/ha)

Title of FLD	Demonstration on marigold crop variety – PusaNarangi, PusaBahar		
Season & Year	Rabi 2025		
Main Problem	Lack of knowledge of flower cultivation		
Main cause of problem	Lack of awareness for flower cultivation		
Full detail of farmer's Practice	No marigold farming or low yielding local cultivar farming		
Full detail of technology to be demonstrated	High yielding varieties – PusaNarangi, PusaBahar		
Source of Technology with year	IARI, New Delhi		
Name of the Technology	Flower based production system		
Thematic area	Flower based production system		
Name of villages	Mehsouri, Kulhariya, Bharatkhand&Others		
Farming situation	Medium Land		

Area (ha)/Unit (No.)	0.4	No of farmers	10
Performance indicator	1. Technical indicator :- Flower Yield (q/ha) 2. Economic indicator :- Cost of cultivation (Rs./ha), Gross return (Rs./ha), Net return (Rs./ha), B:C Ratio 3. Farmer Feedback :- Farmer perception		

3.3 Training (Including the sponsored and FLD training programmes):Note: 25 participants per training

A) ON Campus

Thematic Area	Name of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Cropping Systems	Cultivation techniques for Soybean crops.	11	06	17	05	03	08	25
	Cultivation techniques of Paddy.	11	06	17	05	03	08	25
	Cultivation techniques of Mustard crops.	11	06	17	05	03	08	25
II Horticulture								
a) Vegetable Crops								
Nursery raising	Techniques of nursery preparation for cole crops.	06	11	17	03	05	08	25
Protective cultivation (Green Houses, Shade Net etc.)	Protected cultivation of cucumber.	06	11	17	03	05	08	25
b) Fruits								
Cultivation of Fruit	Techniques planting in apple ber,	06	11	17	03	05	08	25
VI Agril. Engineering								
Post Harvest Technology	Calibration of multi-crop planter for DSR.	11	06	17	05	03	08	25
Post Harvest Technology	Different weeding machinery and their benefits in Paddy.	11	06	17	05	03	08	25
Post Harvest Technology	Installation and calibration of laser land leveller.	11	06	17	05	03	08	25
VII Plant Protection								
Integrated Pest Management	Integrated Pest Management in Banana	11	06	17	05	03	08	25

	Integrated Pest Management in Kharif maize	11	06	17	05	03	08	25
	Integrated Pest Management in Mustard	11	06	17	05	03	08	25
Integrated Farming Systems								
XII Others (Pl. Specify)								
TOTAL								
(B) RURAL YOUTH								
Mushroom Production	Mushroom production techniques	11	06	17	05	03	08	25
Bee-keeping	Bee Keeping and Honey production	11	06	17	05	03	08	25
Integrated farming								
Seed production								
Production of organic inputs	Organic cultivation	11	06	17	05	03	08	25
Integrated Farming (Medicinal)								
Planting material production	Plant propagation techniques of vegetable & fruit crops.	06	11	17	03	05	08	25
Vermi-culture	Vermi compost production technique	11	06	17	05	03	08	25
Sericulture								
Protected cultivation of vegetable crops	Protected cultivation of high value Vegetable crops.	06	11	17	03	05	08	25
Commercial fruit production								
Repair and maintenance of farm machinery and implements	Income generation through custom hiring centers (CHC)	11	06	17	05	03	08	25
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition								
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								

Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
TOTAL								
(C) Extension Personnel								
Productivity enhancement in field crops	Cultivation of Rice with DSR	11	06	17	05	03	08	25
Integrated Pest Management	Integrated Pest Management in Maize.	11	06	17	05	03	08	25
Integrated Nutrient management	Nursery management techniques for vegetable crops.	11	06	17	05	03	08	25
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	Emerging engineering technology under the Climate Resilient Agriculture programme.	11	06	17	05	03	08	25
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify)								
TOTAL								
G. Total								

B) OFF Campus **Note: 25 participants per training**

Thematic Area		No. of Courses	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	Post emergence weed management in green gram.	11	06	17	05	03	08	25	
	Post emergence weed management in Kharifmaize .	11	06	17	05	03	08	25	
	Pre and post Weed Management in Paddy.	11	06	17	05	03	08	25	
	Post emergence weed management in	11	06	17	05	03	08	25	

	Soybean							
Cropping Systems	Cultivation techniques for Sikha variety of green gram.	11	06	17	05	03	08	25
	Cultivation techniques for Hybrid variety of Sunflower.	11	06	17	05	03	08	25
	Direct Seeded Rice .	11	06	17	05	03	08	25
	Cultivation techniques of Maize crops.	11	06	17	05	03	08	25
	Cultivation techniques of Wheat crops.	11	06	17	05	03	08	25
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	Techniques planting in cucurbit vegetable.	06	11	17	03	05	08	25
	Method of planting in tomato crops.	06	11	17	03	05	08	25
	Planting techniques of cole crops.	06	11	17	03	05	08	25
Nursery raising	Techniques of nursery management in cucumber.	06	11	17	03	05	08	25
	Nursery preparation and their management in cole crops.	06	11	17	03	05	08	25
Protective cultivation (Green Houses, Shade Net etc.)	Protected cultivation of cucumber	06	11	17	03	05	08	25
	Protected cultivation of cucumber.	06	11	17	03	05	08	25
	Protected Cultivation of capsicum	06	11	17	03	05	08	25
b) Fruits								
Cultivation of Fruit	Techniques planting in apple ber	06	11	17	03	05	08	25
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems	Micro-irrigation techniques in Banana and their benefits.	11	06	17	05	03	08	25
	Micro-irrigation techniques in Okra and their benefits.	11	06	17	05	03	08	25
	. Alternate wetting and drying techniques and their installation in Paddy crops.	11	06	17	05	03	08	25
Use of Plastics in farming practices	Mulching in Brinjal crops & their benefits.	11	06	17	05	03	08	25
Repair and	Care and maintenance of Zero tillage.	11	06	17	05	03	08	25

maintenance of farm machinery and implements	Sowing of Maize using raised bed planter	11	06	17	05	03	08	25
	Care and maintenance of Happy seeder.	11	06	17	05	03	08	25
	Care and maintenance of Super seeder.	11	06	17	05	03	08	25
	Sowing of Maize through different dibblers.	11	06	17	05	03	08	25
VII Plant Protection								
Integrated Pest Management	Integrated Pest Management in Green gram	11	06	17	05	03	08	25
	Integrated Pest Management in Ragi.	11	06	17	05	03	08	25
	Integrated Pest Management in Maize.	11	06	17	05	03	08	25
Integrated Disease Management	Integrated Disease Management in Green gram	11	06	17	05	03	08	25
	Integrated Disease Management in Banana	11	06	17	05	03	08	25
	Integrated Disease Management in Paddy	11	06	17	05	03	08	25
	Integrated Disease Management in Mustard	11	06	17	05	03	08	25
Bio-control of pests and diseases	Insect and disease management under natural farming in Brinjal	11	06	17	05	03	08	25
	Insect and disease management under natural farming in Brinjal	11	06	17	05	03	08	25
Production of bio control agents and bio pesticides								
XII Others (Pl. Specify)								
TOTAL								

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	04	44	24	68	20	12	32	100

Cropping Systems	08	88	48	136	40	24	64	200
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	04	44	24	68	20	12	32	100
Off-season vegetables								
Nursery raising	03	33	18	51	15	09	24	75
Protective cultivation (Green Houses, Shade Net etc.)	04	44	24	64	20	12	32	100
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit	01	11	06	17	05	03	08	25
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								

Production and management technology								
Post harvest technology and value addition								
(B) RURAL YOUTH								
Mushroom Production	01	11	06	17	05	03	08	25
Bee-keeping	01	11	06	17	05	03	08	25
Integrated farming								
Seed production								
Production of organic inputs	01	11	06	17	05	03	08	25
Planting material production	01	06	11	17	03	05	08	25
Vermi-culture	01	11	06	17	05	03	08	25
Sericulture								
Protected cultivation of vegetable crops	01	06	11	17	03	05	08	25
Commercial fruit production								
Repair and maintenance of farm machinery and implements	01	11	06	17	05	03	08	25
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition								
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								

Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
TOTAL								
(C) Extension Personnel								
Productivity enhancement in field crops	01	11	06	17	05	03	08	25
Integrated Pest Management	01	11	06	17	05	03	08	25
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify)Nursery management	01	06	11	17	05	03	08	25
TOTAL								
G. Total								
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								

Production of small tools and implements								
Repair and maintenance of farm machinery and implements	01	11	06	17	05	03	08	25
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management	01	11	06	17	05	03	08	25
Integrated Disease Management								
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
X Capacity Building and Group Dynamics								
Leadership development								
Group dynamics								
Formation and Management of SHGs								
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
Sponsored training								
TOTAL								

Details of training programmes attached in **Annexure -I**

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	06	217	77	294	06	0	06	223	77	300
KisanMela	02	209	91	300	00	0	0	0	0	500
KisanGhoshi	04	169	31	200	00	0	0	0	0	200
Exhibition	06	397	97	494	06	0	0	0	0	500
Film Show										
Farmers Seminar	01	186	49	235	02	00	02	188	49	237
Workshop	01	170	30	200	0	0	0	00	0	200
Group meetings										
Lectures delivered as resource persons	10									
Newspaper coverage	25									
Radio talks										
TV talks										
Popular articles	15									
Extension Literature	20									
Advisory Services										
Scientific visit to farmers field	50	200	25	0	0	0	0	0	0	225
Farmers visit to KVK	3	70	30	0	0	0	0	0	0	100
Diagnostic visits	16	130	20	0	0	0	0	0	0	150
Exposure visits	02	40	0	0	0	0	0	0	0	40
Ex-trainees Sammelan	02	100	20	120	0	0	0	0	0	120
Soil health Camp	01									
Animal Health Camp	01	50	10	60	0	0	0	0	0	60
Agri mobile clinic										
Soil test campaigns	01	175	25	200	0	0	0	0	0	200
Farm Science Club Conveners meet										
Self Help Group	02	75	25	100	0	0	0	00	0	100

Conveners meetings										
MahilaMandals Conveners meetings										
Celebration of important days (specify)	10	350	150	500	0	0	0	00	0	500
KrishiMohostva	03	175	25	200	0	0	0	0	0	200
KrishiRath	05	350	150	500	0	0	0	00	0	500
Pre Kharif workshop	01	175	25	200	0	0	0	0	0	200
Pre Rabi workshop	01	1	25	200	0	0	0	0	0	200
PPVFRA workshop										
Any Other (Specify)										
Total										

3.5 Target for Production and supply of Technological products

A) SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	SabourHarshit	142
	Wheat	HD-2967	280
OILSEEDS			
PULSES			
VEGETABLES			
OTHERS (Specify)			

B) PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava	L-49, Allahabad Safeda	1000
	Litchi	Sahi, SabourMadhu, China	1500
SPICES			
VEGETABLES	Drumstick	Baramasi	100
	Curry leaf	Dwarf	100
	Brinjal, Chilli, Bottle gourd, Bitter gourd, Cucumber, Cabbage, Cauliflower,	Hybrid	22,300
FOREST SPECIES			
ORNAMENTAL CROPS			
		Total	

C) BIO-PRODUCT

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIO PESTICIDES				
1				

D) LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
Cattle				
GOAT				
SHEEP				
POULTRY	Backyard Poultry Farming	Vanraja	200	01
Pig farming				
FISHERIES				

3.6 Literature to be Developed/Published

(A) KVK News Letter

Date of start : August

Number of copies to be published : 03 (3000 Copies)

(B) Literature to be developed/published

S.No.	Topic	Number
1	Research paper each scientist	02
2	Technical reports	01
3	News letters	48
4	Training manual all discipline	00
5	Popular article	10
6	Extension literature	10
	Total	71

(C) Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette, whatsapp group, mobile app, etc.	Title of the product	Number
1	whatsapp group,	All training activity, Action Photographs, Interactive video	2000
2	Facebook	All training activity, Action Photographs, Interactive video	2000
3	Happening at BAU	All training activity, Action Photographs	12
4	News Paper Coverage	All training activity, Action Photographs	52

3.7. Success stories/Case studies identified for development as a case. - 02

a. Brief introduction/Background

- b. Interventions/process
- c. Output
- d. Outcomes
- e. Impact
 - i) Social economic
 - ii) Bio-Physical
- f. Good Action Photographs

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

- a) PRA
- b) Farmers Meeting
- c) Feedback

Rural Youth

- a) PRA
- b) Farmers Meeting
- c) Feedback
- d) Knowledge Scaling

In-service personnel

- a) PRA
- b) Farmers Meeting

c) Feedback

3.9 Indicate the methodology for identifying OFTs/FLDs

For OFT:

- i) PRA
- ii) Problem identified from Matrix based ranking & analysis
- iii) Field level observations
- iv) Farmer group discussions
- v) Others if any

For FLD:

- i) New variety/technology
- ii) Poor yield at farmers level
- iii) Existing cropping system
- iv) Others if any

3.10 Field activities

- i. Name of villages identified/adopted with block name (from which year) -
 - 1. Village :-Amni, Block :- Mansi (2022),
 - 2. Village :-Ranko Block :- Khagaria(2022)
 - 3. Village:-Mehsouri, Block :-Khagaria
 - 4. Village:-Sansarpur, Block :-Khagaria
 - 5. Village:-Sondiha, Block:-Gogri
 - 6. Village:-Kulhariya, Block:-Parbatta
 - 7. Village:-Imli, Block:-Alouli

- ii. No. of farm families selected per village : 70 Families
- iii. No. of PRA conducted : 07 Village
- iv. No. of technologies taken to the adopted villages : 10
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological– horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies

3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab:

1. Year of establishment : NA

2. List of equipment's purchase with amount

Sl. No.	Name of the equipment	Quantity	Cost (Rs)
1			

3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	500	500	05	5,000.00
Water				
Plant				
Total	500	500	05	5,000.00

4.0 LINKAGES

4.1 Functional linkage with different organizations/department

Sl. No.	Name of organization	Nature of linkage	Outcome of linkage
01	ATMA	Participation in different govtprogrammes such as Kharif and Rabi Mahotsav, KrishiYantrikaranmela and others, farmers scientist interaction, short term research on technical refinement and validation, demonstration on onion, demonstration on maize, sending farmers in exposure visits and KisanMela at BAU, Sabour	Awareness among the farmers of different technology
02	DAO	Conducting training programmes, workshops, field surveys	Awareness among the farmers of different technology
03	ADH	Participation in technology week, conducted training programmes	Awareness among the farmers of different technology
04	Regional Research Centre of IARI, Pusa	Conducting varietal trial on timely shown, late shown, rainfed wheat and short duration paddy varieties	-
05	Regional centre for research and seed production on maize (ICAR), Begusarai	Conducted collaborative programmes on demonstration on maize	-
06	Jeevika	Training Honey bee keeping and honey production, Installation of exhibition stall during awareness progamme on PradhanmantriPhasalBeemaYojna	Awareness & adoption of entrepreneurship for income generation .
07	Nehru Yuva Kendra	Trainings	-
08	Navakanksha Foundation	Training and field visit	-
09	National Bee Board	Training programmes for rural women on Honey bee keeping and honey production	Provide honey bee boxes among the trained youths
10	Bihar MahilaSamakhya Society	Training on women empowerment	-
11	NABARD	Kisan club formation, Training and other programmes	Establishment of FPO on banana fibers
12	KRIBHCO	Training and Technology week celebration, KrishiYatrikaranMela, Workshops	Awareness prog. among the farmers for new technology

13	Sudha Dairy, Barouni	Training and field visit	
14	IFFCO	Training and demonstration	
15	District Industries Center, Khagaria	Training	
16	RSETI, Khagaria	Training	
17	Sabarmati Plantation Farmers Society, Khagaria	Training	
18	ICDS	Establishment of Nutri Garden at Anganwadri Center, Distribution of Nutri Garden Vegetables Seeds and tools, Training	
19	World Vision	Income generating and nutritional security training programme.	

4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

S. No.	Programme	Nature of linkage	Outcome of linkage
1	Trainings	Collaboration and Coordination to improve agricultural practices, farmer to farmer & marketing.	Adoption of technology by farmers
2	KisanMela	Collaboration and Coordination to improve agricultural practices, farmer to farmer & marketing.	Adoption of technology by farmers
3	Field Day	Collaboration and Coordination to improve agricultural practices, farmer to farmer & marketing.	Adoption of technology by farmers

5. Utilization of Hostel facilities

S. No.	Programme	No. of days
1	RAWE	90
2	RAWE	90
Total		180

6. Partnership with departments for technology out scaling (proposed):

Annexure - I

Training Programme

i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total	Month of training
				M	F	T	M	F	T		
Crop Production											
Cropping Systems	PF/FW	Cultivation techniques for Soybean crops.	01	11	06	17	05	03	08	25	April,25
Cropping System	PF/FW	Cultivation techniques of Paddy.	01	11	06	17	05	03	08	25	July, 25
Cropping System	PF/FW	Cultivation techniques of Mustard crops.	01	11	06	17	05	03	08	25	Oct, 25
Horticulture											
Protected cultivation	PF/FW	Protected cultivation of cucumber.	01	06	11	17	03	05	08	25	April, 25
Nursery raising	PF/FW	Techniques of nursery preparation for cole crops.	01	06	11	17	03	05	08	25	July, 25
Yield increment	PF/FW	Techniques of planting in broccoli.	01	06	11	17	03	05	08	25	Oct, 25
Agril. Engg.											
Repair & maintenance of farm machinery & implements	PF/FW	Calibration of multi-crop planter for DSR.	01	11	06	17	05	03	08	25	April, 25
Repair & maintenance of farm	PF/FW	Different weeding machinery and their benefits in Paddy.	01	11	06	17	05	03	08	25	July, 25

machinery & implements											
Repair & maintenance of farm machinery & implements	PF/FW	Installation and calibration of laser land leveller.	01	11	06	17	05	03	08	25	Oct, 25
Plant Protection											
Integrated Disease Management	PF/FW	Integrated Disease Management in Banana	01	11	06	17	05	03	08	25	April, 25
Integrated Pest Management	PF/FW	Integrated Pest Management in Kharif maize	01	11	06	17	05	03	08	25	July, 25
Integrated Pest Management	PF/FW	Integrated Pest Management in Mustard	01	11	06	17	05	03	08	25	Oct, 25

i) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total	Month of training
				M	F	T	M	F	T		
Crop Production											
Cropping System	PF/FW	Cultivation techniques for Sikha variety of green gram.	01	11	06	17	05	03	08	25	Jan to March, 2025
Cropping System	PF/FW	Cultivation techniques for Hybrid variety of Sunflower.	01	11	06	17	05	03	08	25	
Weed Management	PF/FW	Post emergence weed management in green gram.	01	11	06	17	05	03	08	25	
											April to June, 2025
Cropping Systems	PF/FW	Direct Seeded Rice .	01	11	06	17	05	03	08	25	

Weed Management	PF/FW	Post emergence weed management in Kharifmaize .	01	11	06	17	05	03	08	25	
											July to Sept, 2025
Weed Management	PF/FW	Pre and post Weed Management in Paddy.	01	11	06	17	05	03	08	25	
Weed Management	PF/FW	Post emergence weed management in Soybean	01	11	06	17	05	03	08	25	
											Oct to Dec, 2025
Cropping Systems	PF/FW	Cultivation techniques of Maize crops.	01	11	06	17	05	03	08	25	
Cropping Systems	PF/FW	Cultivation techniques of Wheat crops.	01	11	06	17	05	03	08	25	
Horticulture											
Nursery raising	PF/FW	Techniques of nursery management in cucumber.	01	06	11	17	03	05	08	25	Jan to March, 2025
Cultivation of fruit	PF/FW	Techniques planting in apple ber,	01	06	11	17	03	05	08	25	
Protected Cultivation	PF/FW	Protected cultivation of cucumber	01	06	11	17	03	05	08	25	
											April to June, 2025
Nursery raising	PF/FW	Nursery preparation and their management in cole crops.	01	06	11	17	03	05	08	25	
Yield increment	PF/FW	Techniques planting in cucurbit vegetable.	01	06	11	17	03	05	08	25	
											July to Sept, 2025
Yield increment	PF/FW	Method of planting in tomato crops.	01	06	11	17	03	05	08	25	
Protected cultivation	PF/FW	Protected cultivation of cucumber.	01	06	11	17	03	05	08	25	
											Oct to Dec, 2025
Yield increment	PF/FW	Planting techniques of cole crops.	01	06	11	17	03	05	08	25	

Protected Cultivation	PF/FW	Protected Cultivation of capsicum.	01	06	11	17	03	05	08	25	
Agril. Engg.											
Use of plastics in farming practices	PF/FW	Mulching in Brinjal crops & their benefits.	01	11	06	17	05	03	08	25	Jan to March, 2025
Installation and maintenance of Micro-irrigation system	PF/FW	Micro-irrigation techniques in Banana and their benefits.	01	11	06	17	05	03	08	25	
Repair & maintenance of farm machinery & implements	PF/FW	Care and maintenance of Zero tillage.	01	11	06	17	05	03	08	25	
											April to June, 2025
Installation and maintenance of Micro-irrigation system	PF/FW	Micro-irrigation techniques in Okra and their benefits.	01	11	06	17	05	03	08	25	
Repair & maintenance of farm machinery & implements	PF/FW	Sowing of Maize using raised bed planter.	01	11	06	17	05	03	08	25	
											July to Sept, 2025
Installation and maintenance of Micro-irrigation system	PF/FW	Alternate wetting and drying techniques and their installation in Paddy crops.	01	11	06	17	05	03	08	25	
Repair & maintenance of farm machinery & implements	PF/FW	Care and maintenance of Happy seeder.	01	11	06	17	05	03	08	25	
											Oct to Dec,
Repair & maintenance	PF/FW	Care and maintenance of Super seeder.	01	11	06	17	05	03	08	25	

of farm machinery & implements											2025
Repair & maintenance of farm machinery & implements	PF/FW	Sowing of Maize through different dibblers.	01	11	06	17	05	03	08	25	

Plan prot.											
Integrated Pest Management	PF/FW	Integrated Pest Management in Green gram	01	11	06	17	05	03	08	25	Jan to March, 2025
Integrated Disease Management	PF/FW	Integrated Disease Management in Green gram	01	11	06	17	05	03	08	25	
Natural Farming	PF/FW	Insect and disease management under natural farming in Brinjal	01	11	06	17	05	03	08	25	
Integrated Pest Management	PF/FW	Integrated Pest Management in Banana	01	11	06	17	05	03	08	25	April to June, 2025
Natural Farming	PF/FW	Insect and disease management under natural farming in Brinjal	01	11	06	17	05	03	08	25	
											July to Sept, 2025
Integrated Disease Management	PF/FW	Integrated Disease Management in Paddy	01	11	06	17	05	03	08	25	
Integrated Pest Management	PF/FW	Integrated Pest Management in Ragi.	01	11	06	17	05	03	08	25	
											Oct to Dec, 2025
Integrated Disease Management	PF/FW	Integrated Disease Management in Mustard	01	11	06	17	05	03	08	25	
Integrated Pest Management	PF/FW	Integrated Pest Management in Maize.	01	11	06	17	05	03	08	25	

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			SC/ST participants			G.Total	Month of training
				M	F	T	M	F	T		
Organic cultivation	Organic cultivation	Organic cultivation	05	11	06	17	05	03	08	25	April, to June, 2025
Vermicompost	Vermi compost	Vermi compost production technique	05	11	06	17	05	03	08	25	Oct, to Dec, 2025
vegetables	Protected cultivation of vegetable crops	Protected cultivation of high value Vegetable crops.	05	11	06	17	05	03	08	25	April, to June, 2025
Fruits & Vegetables	Planting material production	Plant propagation techniques of vegetable & fruit crops.	05	11	06	17	05	03	08	25	July to Sept, 2025
Bee Keeping	Bee Keeping	Bee Keeping and Honey production	05	11	06	17	05	03	08	25	April, to June, 2025
Mushroom	Mushroom production	Mushroom production techniques.	05	11	06	17	05	03	08	25	July, to Sept, 2025
Micro irrigation	Installation and maintenance of micro irrigation systems	Solar-powered Irrigation System (SPIS)	05	11	06	17	05	03	08	25	January to March
Farm machinery	Repair & maintenance of farm machinery & implements	Income generation through custom hiring centers (CHC)	05	11	06	17	05	03	08	25	July to September

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total	Month of training
				M	F	T	M	F	T		
On Campus											
Paddy	Cultivation of Rice with DSR	Productivity enhancement in field crops.	01	11	06	17	05	03	08	25	April, to June, 2025
Vegetable	Nursery management	Nursery management techniques for vegetable crops.	01	11	06	17	05	03	08	25	July to Sept, 2025
Maize.	Integrated Pest Management	Integrated Pest Management in Maize.	01	11	06	17	05	03	08	25	Oct, to Dec, 2025
Farm Machinery	Repair and maintenance of farm machinery and implements	Emerging engineering technology under the Climate Resilient Agriculture programme.	01	11	06	17	05	03	08	25	January to March

iv) Sponsored programme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training programme											
Plant Protection, Agronomy	ATMA	PF	IPM in cereals	01	11	06	17	05	03	08	25
Agronomy	IFFCO	PF	INM	01	11	06	17	05	03	08	25
Horti., Plant Protection, Agronomy	DHO	PF	Protected cultivation, IDM in fruit crops	01	11	06	17	05	03	08	25
Horti., Plant Protection	ADPP	PF	CHC	01	11	06	17	05	03	08	25
Horti., Plant	NamaneeGange	PF	Natural Farming	01	11	06	17	05	03	08	25

Protection											
b) Sponsored research programme											
			Total								
c) Any special programmes											
		PF	PM Kisan live telecast	03	66	36	102	30	18	48	150
		PF	'Parthenium Awareness Week'	01	22	12	34	10	06	16	50
		PF	SwachhataPakhwara	01	22	12	34	10	06	16	50
			Total	05	110	60	170	50	30	80	250

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