ACTION PLAN PROFORMA FOR THE KVKs.

(1st January to 31 December, 2026)

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	Website
	Office	FAX		
Dr. Muneshwar Prasad, Sr. Scientist and Head Krishi Vigyan Kendra, Gandhar, Jehanabad (Bihar), PIN-804432	8102372649	-	jehanabadkvk@gmail.com	https://jehanabad.kvk4.in

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

Address	Telephone		E mail	Website
	Office	FAX		
Bihar Agricultural University, Sabour, Bhagalpur, PIN –813210	**0641-2452614**	**0641-2452614**	**adeebausabour@gmail.com**	https://bausabour.ac.in

1.2.b. Status of KVK website : Working; Last updated: **08.05.2026**

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) :171480

1.2.d Status of ICT lab at your KVK : Lab not established

a) No. of PC units : 3
b) No. of Printers : 3
c) Internet connection : Yes

1.3. Name of the Senior Scientist & Head with phone & mobile no.

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Muneshwar Prasad	-	8102372649	mpbausabour@gmail.com

1.4. Year of sanction: 2006

1.5. Staff Position (as on 1st January,2026)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id	Please attach recent photograph
1	Sr. Scientist & Head	Dr. Muneshwar Prasad	Sr.Scientist & Head	Horticulture	Pay Level 13A, Basic-156900	9000	156900	20.07.19	Permanent	SC	8102372649	jehanabadkvk@gmail.com	
2	Subject Matter Specialist	Er. Jeetendra Kumar	Subject Matter Specialist	Agriculture Engineering	Pay Level 11, Basic- 101100	6000	101100	12.11.07	Permanent	BC	9472362336	jeetkjeet2004@gmail.com	
3	Subject Matter Specialist	Dr.Manoj Kumar	Subject Matter Specialist	Agronomy	PayLevel 11, Basic- 104100	6000	104100	11.06.09	Permanent	Gen.	6200121428	drmanojkvk@gmail.com	
4	Subject Matter Specialist	Dr Dinesh Mahto	Subject Matter Specialist	Animal Science	PayLevel 10, Basic-80000	5400	80000	16.04.12	Permanent	Gen	7004093143	drdineshgy@gmail.com	
5	Subject Matter Specialist	Dr. Wajid Hasan	Subject Matter Specialist	Entomology	Pay Level 10, Basic-80000	5400	80000	16.04.12	Permanent	Gen	7677466479	entowajid@gmail.com	
6	Subject Matter Specialist	Ms. Varsha Kumari	Subject Matter Specialist	Soil Science	PayLevel 10, Basic-59500	5400	59500	04.04.24	Permanent	EBC	7209471684	varshakvk22@gmail.com	
7	Subject Matter Specialist	Dr. Nirala Kumar	Subject Matter Specialist	Agriculture Extension	Pay Level 10, Basic-59500	5400	59500	19.01.24	Permanent	SC	9334731804	niralarau@gmail.com	
8	Programme Assistant	Vacant	-	-	-			-	-	-			

9	Computer Programmer	Sri Manoj Kumar	Programme Assistant (Comp.)	-	Level 6, Basic-50500	4200	50500	13.05.13	Permanent	Gen	7488533647	manojkr29@gmail.com	
10	Farm Manager	Sri Manish Kumar	Farm Manager	Agriculture	Level 6, Basic- 52000	4200	52000	04.10.25	Permanent	Gen	7004862900	manishbau@gmail.com	
11	Accountant / Superintendent	Sri Ganpati Chaudhary	Assistant	Account	Level6, Basic-49000	4200	50500	16.04.13	Permanent	Gen	9334904286	ganpatic92@gmail.com	
12	Stenographer	Smt. Arpana Kumari	Stenographer	-	Level 4, Basic-36400	2400	36400	17.07.13	Permanent	Gen	9123171914	-	
13	Driver	Sri Ayush Kumar	Driver		Level 3, Basic-27600	2000	27600	11.05.15	Permanent	SC	8709598416	-	
14	Driver	Sri Vijay Kumar	Driver	-	Level 3, Basic-30200	2000	30200	18.05.15	Permanent	EBC	7277222056	-	
15	Supporting staff	Vacant	-	-	-			-	-	-			
16	Supporting staff	Vacant	-	-	-			-	-	-			

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1.490
2.	Under Demonstration Units	0.350
3.	Under Crops	5.500
4.	Orchard/Agro-forestry	0.310
5.	Pond	0.840
6.	Polyhouse	
7.	Green House	0.038
8.	IFS	0.001
9.	Under Roads	1.470

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	387 sq. m	-			
2.	Farmers Hostel	ICAR		2015	312 sq. m	-			
3.	Staff Quarters (6)	ICAR		2009	2100 sq. m	-			
4.	Demonstration Units (2)	ICAR		2015	3100 sq. m	-			
5	Fencing	-		-		-			
6	Rain Water harvesting system	-		-		-			
7	Threshing floor	ICAR		2008	740 sq m	-			
8	Farm godown	ICAR		2010	70 sq.m	-			
9	Implement shed	CAR		2024	375 sq. m	-			

B) Vehicles

Type of vehicle	Year of purchase	Source (ICAR/RKVY)	Cost (Rs.)	Total kms. run as on December, 2025	Present status
Motorbike- BR01CR8038	2015-16	ICAR	60000	23301	Functional
Motorbike- BR01CR8039	2015-16	ICAR	60000	21560	Functional
Bolero- BR25 P 8971	2018-19	ICAR	674299	118376	Functional

C) Equipment's & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
P.P Cap Sealing Machine	2015-16	10000	Not Working
Crown corking machine	2015-16	7000	Not Working
Lug Cap sealer	2015-16	12000	Not Working

Heavy Duty Mixture Grinder	2015-16	12000	Not Working
Pulper	2015-16	30000	Not Working
Fruit mill junior	2015-16	12000	Not Working
Electrical Dehydrator	2015-16	70000	Not Working
Vacuum Filer	2015-16	33000	Not Working
Vegetable Juicer	2015-16	32000	Not Working
Mrida Parikshak Soil test Minilab.	2015-16	75000	Not working
Desktop Computer with monitor	2010-11	43434.00	Working
HP Laser Printer 1005	2010-11	5938.00	Working
UPS System	2010-11	2000.00	Working
P/A System	2010-11	25451.00	Notworking
MPT Camera	2015-16		Not working
MIC	2015-16		working
Panasonic 47LED	2015-16	69565.00	working
Dell Monitor	2015-16	62839.00	working
Video conferencing unit	2015-16	-	Working
Computer System (Monitor,CPU,UPS,Laptop)	2015-16	82583	Working
CCTV Camera & DVR	2015-16	21000	Working
Sound System	2015-16	30165	Working
Projector with Tripod Projector Screen (Sony)	2015-16	52000	Working
Xerox Photo Copier-cum-printer	2016-17	57142.86	Not working
Xerox Drum Cartridge	2016-17	20296.19	Working
Xerox Toner Cartridge	2016-17	6308.58	Working
LED TV 32" (Panasonic)	2016-17	27200	Working
Still Photography camera (Canon)	2016-17	29600	Working
Grain Moisture meter	2016-17	-	Working
Electronic balance	2016-17	-	Working
Agricultural spray Drone (Agribot Drone Pak)	2022-23	975000	Working
Desttop Computer (Dell) core 17, window 11pro,600VA UPS	2024-25	70000	Working
LG LED 75 NANO Television	2025-26	920000	Working
PCS atomic absortion spectometer	2025-26	3495000	Working

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

Sl. No.	Date
1. Scientific Advisory Committee	20.03.2025 and 26.08.2025

Suggestions of SAC meeting

1. Awareness cum training programme on Orchard establishment to be organized to promote and inspire farmers for Horticulture crops.
2. In coordination to District Agriculture Officer avail the cultivated area of Jehanabad under Millet cultivation and organize training and demonstration programme for its area expansion.
3. For the next Kharif season under seed production programme of KVK, Jehanabad take Sabour Mansuri variety of Paddy in respect to popularity of MTU 7029 (Mansuri) Paddy variety in Jehanabad.
4. All the necessary instruments and reagents of Soil testing lab to be procured from revolving fund and started as soon as possible.
5. Artificial insemination with sorted semen of Red Sindhi and Gir should be done to Cows of IFS unit of KVK, Jehanabad.
6. Under the NARI programme, systematic demonstration of bio-fortified varieties and nutritional plate to be done through nutritional Garden in adopted village.
7. Zero energy cold chamber demonstration unit establishments should be done in KVK, Jehanabad for farmer's benefit.
8. Details of BSDM RPL trainees should be provided to DDM, NABARD and a meeting should also be organized.
9. Success story of OFT and FLD conducted among farmers should be shared among farmers by making videos and sharing on social media.
10. Lesson plan for conducting training programme should be provided to Senior Scientist & Head for attaining his approval before organizing.
11. Ensure participation in Krishi Sakhi/ Jeevika workers and Didis in Extension functionaries training.

2. DETAILS OF MICRO-FARMING SITUATIONS OF THE DISTRICT

2.1 Micro-farming situations

S. No.	Farming system/enterprise
1	Paddy – Wheat/Pulses- Moong Paddy- Mustard- Fallow Paddy- Mustard- Moong Dairy farming, Goat farming and Fish cum Duck farming Integrated farming system

a) Characteristics

S. No.	Agro-Ecological situations (AES)	Existing Farming System (Crop + livestock + others)	Major soil types
1	Agro Climatic Zone (NARP) – South Bihar Alluvial Plain Zone (BI-3)	Rice-Wheat-Fallow Rice- Pulse (Lentil/Chickpea)- Fallow Rice-Mustard-Moong with Dairy / Gogarty / Poultry	Old alluvial soil -Sandy loam, Clay loam

b) Land Characteristics

S.No	Agro-Ecological Situation (AES)	Topography	Drainage
1.	Agro Climatic Zone (NARP) - South Bihar Alluvial Plain Zone (BI-3)	The district is situated on a flat, alluvial plain, typical of the Ganga basin. The land slopes gently from south to north, influencing river flow and drainage. The elevation is relatively low, contributing to the potential for flooding	The main rivers are the Morhar, Mohana (Falgu), Dardha, and Jamuna. These rivers are fed by the southern plateau of Chotanagpur in Jharkhand and flow towards the north. The rivers tend to narrow into rivulets as they flow north, indicating an influent character (water flows into the ground). The rapid runoff can also lead to flooding during heavy rainfall. The district faces water stress in certain areas, and some blocks are even classified as "over-exploited" for groundwater resources.

c) AES-wise major problems

S.No	Agro-Ecological Situation (AES)	Major problems	Rank
1.	Agro Climatic Zone (NARP) – South Bihar Alluvial Plain Zone (BI-3)	1. Small and fragmented landholdings, limiting mechanization and profitability. 2. Water scarcity during rabi season due to seasonal rivers and inadequate irrigation. 3. Low Productivity & Yield Gap 4. Declining soil fertility from overuse of chemical fertilizers. 5. Climate Vulnerabilities 6. Limited Crop Diversification & Post-Harvest Facilities	**1** **2** **3** **4** **5** **6**

		7. Frequent flooding in monsoon followed by drought-like conditions, affecting crops like paddy and wheat. 8. Lack of cold storage and value addition facilities for perishable produce. 9. Weak Market Access & Price Realization 10. Nutritional deficiency in Cattle and small ruminant.	**7** **8** **9** **10**

2.2. Area, Production and Productivity of major crops cultivated in the district (2024-25)

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	46414	165905	35.74	4.4	-8.6
2	Wheat	35664	115886	32.49	4.6	-4.5
3	Chickpea	3476	3890	9.74	2.8	-6.8
4	Lentil	7140	6255	8.13	4.7	-3.2
5	Rapeseed-Mustard	1753	1681	12.63	3.8	-12.0
6	Maize (Rabi)	378	2850	71.39	33.5	-10.4
7	Maize (Summer)	132	788	59.04	13.5	-8.4
8	Green Gram	380	304	7.08	4.5	-2.4
9	Arhar	38	84	16.88	6.8	-3.0
10	Lathyrus	1816	1881	9.01	5.9	-5.9

Source: **www.dse.bihar.gov.in year- 2024**

2.3. Weather data (2023-25)

Year	Month	Rainfall (mm)	Temperature ^{0}C		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
2023	January	13.7 mm	23°C	13°C		
	February	14.3 mm	27°C	15°C		
	March	8.5 mm	34°C	21°C		
	April	12.6 mm	40°C	26°C		
	May	46.6 mm	40°C	29°C		
	June	156.7 mm	39°C	30°C		
	July	162.9 mm	34°C	28°C		
	August	238.1 mm	33°C	28°C		
	September	150.1 mm	33°C	27°C		
	October	78.0 mm	31°C	23°C		
	November	0.7 mm	29°C	19°C		
	December	6.0 mm	25°C	15°C		
Total		**892.2 mm**				
2024	January	7 mm	22 °C	10 °C		
	February	7 mm	26 °C	13 °C		
	March	12 mm	32 °C	18 °C		
	April	7 mm	37 °C	23 °C		
	May	29 mm	38 °C	26 °C		
	June	35 mm	36 °C	27 °C		
	July	127 mm	33 °C	26 °C		
	August	213 mm	33 °C	26 °C		
	September	142 mm	32 °C	25 °C		
	October	46 mm	31 °C	22 °C		
	November	6 mm	28 °C	16 °C		
	December	4 mm	24 °C	11 °C		
Total		**628 mm**				
	January	0	22	8		
	February	0	28	11		
	March	0	31	16		
	April	0	39	22		
	May	45.0	42	26		

2025	June	122.3	38	27		
	July	269.8	33	26		
	August	245.65	32	26		
	September	0	33	25		
	October	0	32	20		
	November	0	29	14		
	December	0	26	9		
Total		**682.75 mm**				

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

Category	Population	Production	Productivity	Productivity gap (%)
Cattle				
Buffalo	133867	3.40 Lakh Litres	4.5 Litre/day	33.3
Sheep	1030	15.45 t	15 Kg. /Sheep/Year	20
Goats	56310	675.72 t	12 Kg. / Goat/Year	25
Cattle				
Crossbred cow	102239	5.11 lakh Litres	5 Litre/day	20
Indigenous	66400	1.66 lakh litres	2.5 Litre/day	20
Pigs	10064	4 Lakh tons meat	39.74 Kg/Pig/Year	0.65
Poultry				
Hens	**231800**	Eggs: 509.96 Lakh	220 Eggs /Birds/Year	13.63
Desi	73239	Eggs:43.94 Lakh	60 Eggs /Birds/Year	25.0
Category		**Production (hmt)**	**Productivity**	
Fish (Reservoir)	34.25 lakh spawn and Fingerlings- 16.02 Lakh	Pangasius -250 t/Year Rohu- 0.5 t/Year		

*Statical report

2.5 Details of Operational area / Villages

District	Name Taluka of the block	Name of the village	Major crops & enterprises	Existing yield (q/ha, number/year)	Major problem identified	Identified Thrust Areas
Jehanabad	Hulasganj	Gangapur	Paddy, wheat, pulses Dairy Goatry	39.3 38.5 7.7 6.0 L/cow 12 kg/year	Low yield of quality Rice, Low yield of green fodder, Infertility/ anovulation in cross breed cattle	ICM, Disease management
	Hulasganj	Musauli	Paddy, wheat, pulses, oilseed Dairy Goatry	39.1 38.4 7.7 14 6.0 L/cow 12 kg/year	Low yield of quality Rice, Infertility/ anovulation in cross breed cattle	ICM, Disease management
	Hulasganj	Katauli	Paddy, wheat, pulses, oilseed, Dairy Goatry	39.6 38.1 7.7 14 6.0 L/cow 12 kg/year	Low yield of quality Rice, Low yield of green fodder, Infertility/ anovulation in cross breed cattle	ICM, Disease management
	Hulasganj	Murgaon	Paddy, wheat, vegetable Dairy Goatry	39.9 38.0 180.0 8.0 L/cow 12 kg/year	Low yield of quality Rice, Low yield of Lentil, Infertility/ anovulation in cross breed cattle, large areas remain fallow after kharif rice due to late harvesting, residual moisture constraints, lack of suitable varieties, and low awareness among farmers	ICM, Capacity building, Disease management
	Modanganj	Chotki Akauna	Paddy, wheat, vegetable Dairy Goatry	39.4 37.3 173.0 6.0 L/cow 12 kg/year	Low yield of quality Rice, Infertility/ anovulation in cross breed cattle	ICM, Disease management

	Modanganj	Gandhar	Paddy, wheat, vegetable Dairy Goatry	39 38 146.0 6.0 L/cow 12 kg/year	Low yield of quality Rice, Low yield of green fodder, Infertility/ anovulation in cross breed cattle	ICM, Disease management
	Modanganj	Milkipar	Paddy, wheat, pulses, Dairy Goatry	39 38 6.8 6.0 L/cow 12 kg/year	Large areas remain fallow after kharif rice due to late harvesting, residual moisture constraints, lack of suitable varieties, and low awareness among farmers Parasitic loads in Goat	ICM, INM, Disease management
	Modanganj	Mananpur	Paddy, wheat, pulses, oilseed, Dairy Goatry	38.3 38 8.2 12.3 6.0 L/cow 12 kg/year	Low yield of green fodder, Infertility/ anovulation in cross breed cattle	ICM, INM, Disease management
	Modanganj	Jaikishunbigha	Paddy, wheat, pulses, oilseed, Dairy Goatry	38.4 39.1 6.8 11.4 6.0 L/cow 12 kg/year	Low yield of quality Rice, Low yield of Gram, Low yield of Lentil, Low yield of green fodder, Infertility/ anovulation in cross breed cattle	ICM, INM, Disease management
	Modanganj	Maulabigha	Paddy wheat pulses Oilseed Dairy Goatry Poultry	38.4 37.8 8.7 9.1 6.0 L/cow 12 kg/year 60 eggs/birds/year	Low yield of quality Rice Infertility/ anovulation in cross breed cattle Parasitic load and low body weight gain in Goats, Low eggs production in desi Poultry	ICM, INM, Disease management
	Modanganj	Sakrorha	Paddy, wheat, pulses, Vegetable Dairy Goatry	39.6 37.5 9.8 165.0 6.0 L/cow 12 kg/year	Low yield of quality Rice, Low yield of Gram, Low yield of Lentil, Low yield of green fodder, Infertility/ anovulation in cross breed cattle	ICM, INM, Disease management
	Modanganj	Jairam Bigha	Paddy Wheat pulses, oilseed Dairy Goatry	41.2 39.4 11.2 14.1 6.0 L/cow 12 kg/year	Low yield of quality Rice, Infertility/ anovulation in cross breed cattle	ICM, INM, Disease management
	Modanganj	Saristabad	Paddy Wheat pulses oilseed Vegetable Maize Dairy Goatry	39.8 38.9 12.0 11.3 162.0 59.4 6.0 L/cow 12 kg/year	The yellow stem borer and leaf folder, along with a few other key pests, can cause yield losses of 21–51% in diverse rice agro-ecosystems, Infertility/ anovulation in cross breed cattle	IPM, ICM, INM, Disease management
	Modanganj	Modanganj	Paddy wheat pulses Oilseed Dairy Goatry	39.4 38.3 9.8 12.5 6.0 L/cow 12 kg/year	The yellow stem borer and leaf folder, along with a few other key pests, can cause yield losses of 21–51% in diverse rice agro-ecosystems, Pod borer (*Helicoverpa armigera*) can cause 30–50% yield loss in chickpea, and in severe outbreaks losses may reach 60–80% if timely management is not adopted, Infertility/ anovulation in cross breed cattle	IPM, ICM, INM, Disease management

	Modanganj	Noorpur	Paddy wheat pulses Oilseed Maize Dairy Goatry	39.1 37.4 8.2 9.5 60.0 6.0 L/cow 12 kg/year	Pod borer (*Helicoverpa armigera*) can cause 30–50% yield loss in chickpea, and in severe outbreaks losses may reach 60–80% if timely management is not adopted, Infertility/ anovulation in cross breed cattle	IPM, Disease management
	Ghosi	Godsar	Paddy wheat pulses Oilseed Dairy Goatry Poultry	38.4 37.8 8.7 9.1 6.0 L/cow 12 kg/year 60 eggs/birds/year	Low yield of quality Rice Infertility/ anovulation in cross breed cattle Parasitic load and low body weight gain in Goats, Low eggs production in desi Poultry	ICM, INM, Disease management
	Ghosi	Korma	Paddy wheat pulses Oilseed Dairy Goatry	38.4 37.8 8.7 9.1 6.0 L/cow 12 kg/year	Low yield of quality Rice	ICM, INM, Disease management
	Ghosi	Sahpur	Paddy wheat pulses Oilseed Dairy Goatry	37.6 38.4 9.2 8.5 6.0 L/cow 12 kg/year	The yellow stem borer and leaf folder, along with a few other key pests, can cause yield losses of 21–51% in diverse rice agro-ecosystems, Infertility/ anovulation in cross breed cattle	IPM, Disease management
	Ghosi	Daharpur	Paddy wheat pulses Oilseed Maize Dairy Goatry	39.1 37.4 8.2 9.5 60.0 6.0 L/cow 12 kg/year	Infertility/ anovulation in cross breed cattle, Hand shelling takes long time, labour consuming, chances of injury to the hand	Small farm Equipment's & tools
	Ghosi	Chapanna	Paddy wheat pulses Oilseed Dairy Goatry	38.4 37.8 8.7 9.1 6.0 L/cow 12 kg/year	The yellow stem borer and leaf folder, along with a few other key pests, can cause yield losses of 21–51% in diverse rice agro-ecosystems, Infertility/ anovulation in cross breed cattle, Hand shelling takes long time, labour consuming, chances of injury to the hand	Small farm Equipment's& tools, Disease management
	Kako	Ranipur	Paddy wheat pulses Oilseed Dairy Goatry	37.6 38.4 9.2 8.5 6.0 L/cow 12 kg/year	Low yield of Lentil, Infertility/ anovulation in cross breed cattle	ICM, Disease management
	Kako	Safepur	Paddy wheat pulses Oilseed Maize Dairy Goatry	39.1 37.4 8.2 9.5 60.0 6.0 L/cow 12 kg/year	Infertility/ anovulation in cross breed cattle, Hand picking takes long time, labour consuming, chances of hand injury from thorny/chemical materials during bhindi harvesting	Disease management, small farm Equipments& tools
	Kako	Dharampur	Paddy wheat pulses Oilseed Dairy Goatry Poultry	38.4 37.8 8.7 9.1 6.0 L/cow 12 kg/year	Low yield of Lentil, Infertility/ anovulation in cross breed cattle, Hand picking takes long time, labour consuming, chances of hand injury from thorny/chemical materials during bhindi harvesting	Disease management, small farm Equipment's & tools
	Kako	Nonhi	Paddy wheat	37.6 38.4	Pod borer (*Helicoverpa armigera*) can cause 30–50%	IPM, Disease management

			pulses Oilseed Dairy Goatry	9.2 8.5 6.0 L/cow 12 kg/year	yield loss in chickpea, and in severe outbreaks losses may reach 60–80% if timely management is not adopted, Infertility/ anovulation in cross breed cattle	
	Kako	Keshopur	Paddy wheat pulses Oilseed Maize Dairy Goatry	39.1 37.4 8.2 9.5 60.0 6.0 L/cow 12 kg/year	Hand picking takes long time, labour consuming, chances of hand injury from thorny/chemical materials during bhindi harvesting	Small farm Equipments& tools, Disease management
	Kako	Devghara	Paddy wheat pulses Oilseed Dairy Goatry	38.4 37.8 8.7 9.1 6.0 L/cow 12 kg/year	Pod borer (*Helicoverpa armigera*) can cause 30–50% yield loss in chickpea, and in severe outbreaks losses may reach 60–80% if timely management is not adopted, Infertility/ anovulation in cross breed cattle	IPM, Disease management
	Kako	Amarpura	Paddy wheat pulses Oilseed Dairy Goatry Poultry	38.4 37.8 8.7 9.1 6.0 L/cow 12 kg/year 60 eggs/birds/year	Low yield of quality Rice Infertility/ anovulation in cross breed cattle Parasitic load and low body weight gain in Goats, Low eggs production in desi Poultry	ICM, INM, Disease management
	Jehanabad	Vishunpur	Paddy wheat pulses Oilseed Dairy Goatry	37.6 38.4 9.2 8.5 6.0 L/cow 12 kg/year	Low yield of quality Rice, Low yield of Gram, Low yield of Lentil, Infertility/ anovulation in cross breed cattle	ICM, Disease management
	Jehanabad	Sikaria	Paddy wheat pulses Oilseed Dairy Goatry	37.6 38.4 9.2 8.5 6.0 L/cow 12 kg/year	Low yield of quality Rice, Low yield of Gram, Low yield of Lentil, Infertility/ anovulation in cross breed cattle Parasitic load and low body weight gain in Goats	ICM, Disease management
	Ratni faridpur	Dhanadhari	Paddy wheat pulses Oilseed Maize Dairy Goatry	39.1 37.4 8.2 9.5 60.0 6.0 L/cow 12 kg/year	Low yield of quality Rice, Low yield of Gram, Low yield of Lentil, Low yield of green fodder, Infertility/ anovulation in cross breed cattle	ICM, Disease management
	Ratni faridpur	Jhunathi	Paddy wheat pulses Oilseed Dairy Goatry	38.4 37.8 8.7 9.1 6.0 L/cow 12 kg/year	Low yield of Gram, Low yield of green fodder, Infertility/ anovulation in cross breed cattle	ICM, Disease management
	Ratni faridpur	Dwarika bigha	Paddy wheat pulses Oilseed Dairy Goatry	37.6 38.4 9.2 8.5 6.0 L/cow 12 kg/year	Low yield of Gram, Infertility/ anovulation in cross breed cattle	ICM, Disease management
Jehanabad	Makhdumpur	Lohgarh	Paddy wheat pulses Oilseed Dairy Goatry	37.6 38.4 9.2 8.5 2.5 L/cow 12 kg/year	Low yield of Gram, Infertility/ anovulation in cross breed cattle	ICM, Disease management

3 B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Integrated Nutrient Management	Mustard	Low yield of Mustard	Assessment of different dates of sowing on late sown Mustard on yield	-	Scientific cultivation of Rabi Oilseed crop	-	3	Mustard Seed
2	Weed management	Lentil	Low yield of Lentil	Management of weed with Herbicides in Lentil	Demonstration in Lentil cv.IPL-316	Weed management in Rabi crop	Recent advances technology in weed management in Rabi crop	4	Herbicide
3	Integrated Disease management	Paddy	Low yield of Paddy	Management of False Smut Disease of Rice	-	Management of Insect pests and Diseases of Paddy	-	5	Fungicide
4	Integrated Pest Management	Okra	Low yield in okra	Management of sucking pests complex in okra	Pest management in summer crop	IPM in summer vegetable	-	3	Insecticide
5	Integrated Pest management	Paddy	Low yield of Paddy	Management of Rice Leaf folder in paddy	Management of stem borer and leaf folder in Paddy	Management of Insect pests and Diseases of Paddy	Management of Insect pests and Diseases of Paddy	4	Insecticide
6	Integrated Nutrient management	Paddy	Deteriorating soil health in rice wheat cropping system	Assessment of effective nutrient management strategy in Paddy for improving soil health in rice–wheat cropping system	Demonstration of organic and Biofertilizers on soil health and rice yield	Role of vermi-compost and Bio-fertilizers for improving soil health	Cropp diversification and soil fertility conservation	3	Fertilizer and Biofertilizer
7	Integrated Nutrient management	Wheat	Deteriorating soil health in rice wheat cropping system	Assessment of effective nutrient management strategy in Wheat for improving soil health in rice–wheat cropping system	-	Role of Bio-fertilizer and organic manures for sustainable crop production	-	1	Fertilizer and Biofertilizer
8	Water Conservation	Wheat	Low yield of Wheat due to irrigation with irregular schedules	Assessment of different irrigation schedules for optimization of water use efficiency and yield of wheat	-	Irrigation Scheduling in rabi crops		1	Seed
9	Water Conservation	Cauliflower	Low yield and poor curd quality of Cauliflower due to improper water management	Assessment of low-cost mulching techniques for improving yield and quality of Cauliflower under irrigated conditions		Different types of mulches and its importance in crop production		1	Seed and Mulching
10	Disease management	Cow	Nutritional and hormonal imbalance of Buffalo Heifers cause Repeat Breeding	Therapeutic Management of Anestrus in Buffalo Heifers		Disease management of Livestock		1	Hormone
11	Crop Diversification	Lentil	Case Study	Crop Diversification beyond the Paddy–Wheat System in Jehanabad District, Bihar		Training on lead the Change regarding Climate-Smart Agriculture		1	Seed
12	Integrated Crop Management	Paddy	Low yield of quality Rice (Sonam, Puja)		Demonstration of fine rice variety Sabour Vibhuti	Scientific Cultivation of Kharif Crops		1	Seed
13	Integrated Crop Management	Chickpea	Low yield of chickpea		Demonstration of HYV Chickpea cv. Sabour Chana-1	Commercial Seed production techniques		1	Seed

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.
14	Integrated Crop Management	Lentil	Low yield of Lentil		Demonstration in Lentil cv. IPL 220	Commercial Seed production techniques		1	Seed
15	Integrated Pest Management	Paddy	The stem borer and leaf folder cause yield losses of 21–51% in paddy		Management of stem borer and leaf folder in Paddy	Management of Insect pests and Diseases of Paddy		1	Insecticide
16	Integrated Pest Management	Chickpea	Pod borer (*Helicoverpa armigera*) cause 30–50% yield loss in chickpea		Management of Pod Borer in Chickpea	Pest & disease management in Rabi crops		1	Insecticide
17	Integrated Nutrient Management	Paddy	Low yield of rice		Demonstration of organic and Biofertilizers on soil health and rice yield	Integrated nutrient Management in Kharif Crop		1	Biofertilizer
18	Integrated Nutrient Management	Mustard	Low yield of mustard and oil content		Demonstration of Sulphur and micro nutrients (Zinc, Boron) in Mustard	Importance of micronutrient in Crop Production		1	Micronutrient
19	Nutrient Use Efficiency	Wheat	Un even spray of fertilizer		Demonstration of Nano Urea in wheat through agriculture drone	Integrated nutrient Management		1	Nano urea and Drone
20	Small farm tools and implements	Okra	Hand plucking takes long time, labour consuming, chances of hand injury from thorny/chemical materials during bhindi harvesting, damage to plants		Demonstration on use of Hand Bhindi Plucker	Drudgery reduction machineries/ equipment's		1	Hand Bhindi Plucker
21	Disease management	Cow	Infertility/ anovulation in cross breed cattle		Demonstration of GnRH (Buserelin) for reducing incidence of Post partum Anestrus in cross breed cow	Disease management of Livestock		1	Hormone
22	Capacity Building	Lentil	Low cropping intensity and underutilization of residual soil moisture after long-duration paddy cultivation		Promotion of Paira (Utera) Lentil in Long Duration Paddy-Based Cropping System	Awareness regarding Paira (Utera) crop of Lentil		1	Seed

2.6 Top five major priority thrust areas:

i) Integrated Crop Management

ii) Crop diversification

iii) Improvement of reproductive efficiency in Dairy animal

iv) Integrated Nutrient Management (INM) and Integrated Pest Management

v) Improved irrigation and water conservation

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
10- OFT, 1- Case study	100(OFT), 100 (Case study)	48.0 (No. 10, farmers- 140)	35 (Animal Sc.) 25 (Drone)	35 25

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
95	2375	372	10000

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
250	50000	-	250

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			1							1
Integrated Crop Management										
Integrated Nutrient Management	2	1								3
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management	1				1					2
Integrated Disease Management	1									1
Resource conservation technology	1				1					2
Small Scale income generating enterprises										
TOTAL	**5**	**1**	**1**		**2**					**9**

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

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	Disease management	Buffalo	Nutritional and hormonal imbalance of Buffalo Heifers cause Repeat Breeding	Therapeutic Management of Anestrus in Buffalo Heifers	-	Control of infertility in dairy cattle	-	-	-

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

OFT-1 (Agronomy) **Area of Mustard in Jehanabad 1753 ha, District Productivity 9.59 q/ha, state productivity 12.63 q/ha**

Crop	Mustard
Season	Rabi 2026-27
Main problem	Low yield of Mustard due to late sowing
Main cause	Delayed sowing
Title of OFT	Assessment of different dates of sowing on Mustard yield
Farming situation	Soil type: Clay loam soil, Land type: Medium land, Irrigation type: Bore well, Previous crop: Rice
Thematic area	Integrated Crop Management
Farmer practice	FP: Mustard sown (30 Nov to 10 Dec)
Technology option selected for assessment	TO1: Mustard sown 10th Nov TO2: Mustard sown 20th Nov
Source of technology	HAU, Hisar 2023
No. of trial	10
Detail of critical input	Seed
Cost of individual critical input	Rs. 200/-
Total cost of critical input	Rs. 2000/-
Performance indicator to be recorded	(i) Technical indicator (Growth parameters, yield attributing characters, grain yield, straw yield (Q/ha) (ii) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) (iii) Farmer perception (Effectiveness of Technology, Ease of Adoption, Impact on Yield)

OFT-2 (Agronomy) **Crop: Lentil, Crop area: 7140 ha, District yield: 8.76 Q/ha, State yield: 8.13 Q/ha**

Crop	Lentil
Season	Rabi 2026-27
Main problem	Low yield of Lentil
Main cause	Heavy infestation of weed (*Chenopodium album, Lepidium sativum, Medicago denticulata, Anagallis arvensis, Spergula arvensis* and *Rumex dentatus*)
Title of OFT	Management of weed with Herbicides in Lentil
Farming situation	Soil type- Sandy loam, Clay loam Land type-Upland, medium land Irrigation type-Irrigated/Rainfed Previous crop- Paddy
Thematic area	Weed management
Farmer practice	FP: Hand weeding in Lentil after 30 DAS
Technology option selected for assessment	TO1: Application of pre-emergence herbicides (Pendimethalin) 1.0 kg a.i/ha TO2: Application of post-emergence herbicides (Imazethapyr) 37.5gm/ha a.i 30 DAS
Source of technology	DRPCAU, Pusa Samastipur, 2023
No of trial	10
Detail of critical input	Herbicide
Cost of individual critical input	Rs. 1000/-
Total cost of critical input	Rs. 10000/-
Performance indicator to be recorded	(i) Technical indicator (Growth parameters, yield attributing characters, grain yield, straw yield (Q/ha) (ii) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) (iii) Farmer perception (Effectiveness of Technology, Ease of Adoption, Impact on Yield, Overall Satisfaction)

OFT-3 (Entomology) 2nd year **Crop name: Paddy, Area:46414 ha, District yield: 35.74 q/ha, State yield: 30.68 q/ha**

Crop	Paddy
Season	Kharif 2026
Main problem	Low productivity of rice due to disease incidence
Main cause	High incidence of False Smut associated with favorable weather (high humidity & cloudy conditions) and improper fungicide management
Title of OFT	Management of False Smut Disease of Rice
Farming situation	Soil type- Clay loam Land type- medium land Irrigation type-Irrigated Previous crop- Wheat/Lentil
Thematic area	Integrated Disease management
Farmer practice	FP: Seed treatment with carbendazim 50% WP @2g/Kg seed

Technology option selected for assessment	TO1: Fluopyram 17.7 + Tebuconazole 17.7 SC @ 96.5 g a.i. /ha (Formulation 550 g/ha). TO2: Trifloxystrobin 25% + Tebuconazole 50% @ 100+50 g a.i. /ha (Formulation @200 g/ha) Spray at one at booting and the other at flowering stage
Source of technology	Anand Agricultural University, Nawagam, Kheda (Gujarat), India 2024 https://epubs.icar.org.in/index.php/OIJR/article/view/138529? **Vol. 61 No. 1: 2024**
No of trial	10
Detail of critical input	Fungicides
Cost of individual critical input	Rs. 1,500
Total cost of critical input	Rs. /ha 15000
Performance indicator to be recorded	Technical indicator (Disease incidence, Yield (Q/ha) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) Farmer perception (Effectiveness of Technology, Ease of Adoption, Impact on Yield, Overall Satisfaction)

OFT-4 (Entomology) **Crop name: Paddy, Area:46414 ha, District yield: 35.74 q/ha, State yield: 30.68 q/ha**

Crop	Rice
Season	Kharif 2026
Main problem	The rice leaf folder (RLF) is one of the major insect pests of rice, causing significant yield losses up to 21.3%
Main cause	Rice Leaf folder (RLF) *Cnaphalocrocis medinalis* (Guenee) in paddy
Title of OFT	Management of Rice Leaf folder (*Cnaphalocrocis medinalis* Guenee) in paddy
Farming situation	Soil type- Sandy loam, Clay loam Land type-medium land/ Low land Irrigation type-Irrigated/Rainfed Previous crop- Wheat/Lentil
Thematic area	Integrated Pest management
Farmer practice	FP : Chalorpyrifos 20 EC @ 500ml/ha and 150 Kg/ha Nitrogen
Technology option selected for assessment	TO1 : Flubediamide 480 SC (Fame) @ 0.3 ml/l (Ist application at Panicle initiation stage and IInd at Flowering stage) TO2: Spray of Fipronil 5 SC @1 ml/ha (Ist spray at Panicle initiation stage and IInd at Flowering stage)
Source of technology	ICAR–AICRP on Rice. 2022
No of trial	10
Detail of critical input	Insecticide
Cost of individual critical input	Rs. 1200
Total cost of critical input	Rs. /ha 12000
Performance indicator to be recorded	Technical indicator (% Infestation (No of folded leaves per hill) and yield attributes Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) Farmer perception (Effectiveness of Technology, Ease of Adoption, Impact on Yield)

OFT-5 (Entomology) **Crop name: Okra , Area:699 ha, District yield: 144.9 q/ha, State yield: 133.5 q/ha**

Crop	Okra
Season	Summer 2027
Main problem	Low yield (Sucking pest complex of okra comprises jassid, white fly, which cause sap loss, leaf deformation, and virus transmission, leading to significant yield reduction
Main cause	Jasid and white fly
Title of OFT	Management of sucking pests complex in okra
Farming situation	Soil type- Sandy loam, Clay loam Land type- medium land Irrigation type-Irrigated Previous crop- Paddy
Thematic area	Integrated Pest Management
Farmer practice	FP: Repeated indiscriminate use of conventional insecticides (e.g., chlorpyriphos, dimethoate) without ETL consideration.
Technology option selected for assessment	TO1 : Flupyradifurone 17.09% SC @ 2.5 ml/L (trade name “Sivanto®” (by Bayer CropScience) TO2: Tolfenpyrad 15% EC @ 2 ml/L (Tata Patang Insecticide)
Source of technology	ICAR-Indian Institute of Vegetable Research, Varanasi 2023
No of trial	10
Detail of critical input	Insecticide

Cost of individual critical input	Rs. 1250
Total cost of critical input	Rs. /ha 12500
Performance indicator to be recorded	Technical indicator Number of Insects per leaf/ % Infestation) and yield attributes Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) Farmer perception (Effectiveness of Technology, Ease of Adoption, Impact on Yield)

OFT-6 (Soil Science) Crop name: Paddy, Area:46414 ha, District yield: 35.74 q/ha, State yield: 30.68 q/ha

Crop	Paddy
Season	Kharif -2026
Main problem	Deteriorating soil health in rice-wheat cropping system
Main cause	Low fertilizer utilization efficiency and biofertilizers application
Title of OFT	Assessment of effective nutrient management strategy for improving soil health in rice–wheat cropping system
Farming situation	Soil type- Sandy loam, Clayey loam Land type- medium and low land Irrigation type-Irrigated Previous crop- Wheat
Thematic area	Integrated Nutrient management
Farmer practice	FP- 83% of N (100kg/ha), 50% of P2O5 (30 kg/ha) and 75 % of K2O (30kg/ha)
Technology option selected for assessment	TO1: 100% RDF (120:60:40 kg N, P2O5, K2O ha−1) TO2 : 50% RDP + REC at rate 50% of the RDP dose + PSB REC—Rock Phosphate enriched compost; RDP—Recommended dose of Phosphorus
Source of technology	BAU Sabour (2025) Agronomy 2025, 15, 2911. https://doi.org/ 10.3390/agronomy15122911
No of trial	10
Detail of critical input	Rock Phosphate, PSB
Cost of individual critical input	Rs 1250
Total cost of critical input	Rs 12500
Performance indicator to be recorded	Technical indicators: Yield attributing characters (Plant height, Grains/panicle, No. of tillers/m2, panicle length, Grains/panicle, Grain yield), Soil analysis (Soil Health status before and after) Economic indicators: Cost of cultivation , Net return

OFT-7 (Soil Science) Crop name: Wheat, Area: 35664 ha, District yield:32.49 q/ha, State yield:32.11 q/ha

Crop	Wheat
Season	Rabi 2026-27
Main problem	Deteriorating soil health in rice-wheat cropping system
Main cause	Low fertilizer utilization efficiency and biofertilizers application
Title of OFT	Assessment of effective nutrient management strategy for improving soil health in rice–wheat cropping system
Farming situation	Soil type- Sandy loam, Clayey loam Land type- medium and low land Irrigation type-Irrigated Previous crop- Paddy
Thematic area	Integrated Nutrient management
Farmer practice	FP- 75% of N (112kg/ha), 50% of P_2O_5 (30 kg/ha) and 25 % of K_2O (10kg/ha)
Technology option selected for assessment	TO1: 100% RDF (150:60:40 kg N, P_2O_5, K_2O ha^{-1}) TO2 : 50% RDP + REC at rate 50% of the RDP dose + PSB REC—Rock Phosphate enriched compost; RDP—Recommended dose of Phosphorus
Source of technology	BAU Sabour (2025) *Agronomy* 2025, 15, 2911. https://doi.org/ 10.3390/agronomy15122911
No of trial	10
Detail of critical input	Rock Posphate, PSB
Cost of individual critical input	Rs 1250
Total cost of critical input	Rs 12500

Performance indicator to be recorded	Technical indicators: Yield attributing characters (Plant height, No. of tillers/ plant, No. of spike/m^2, No. of grains/spike) , Soil Analysis (Soil Health status before and after) Economic indicators: Cost of cultivation , Net return ,B:C Ratio

OFT-8 (Agricultural Engineering) **Crop name: Wheat, Area: 35664 ha, District yield: 32.49 q/ha, State yield:32.11 q/ha**

Crop	Wheat
Season	Rabi 2026-27
Main problem	Low yield of Wheat due to irrigation with irregular schedules
Main cause	3-4 irrigations at irregular interval in Wheat
Title of OFT	Assessment of different irrigation schedules for optimization of water use efficiency and yield of wheat
Farming situation	Soil Type- Clay loam, Land type-Medium upland, Irrigation type-borewell, Previous crop-Rice
Thematic area	Water Conservation
Farmer practice	FP: 3-4 irrigations at irregular interval
Technology option selected for assessment	TO1: 3 post sowing irrigations at 20-25 DAS (CRI stage), 70-80 DAS (Flag leaf emergence), 115-120 DAS (Soft dough stage) with border irrigation method TO2: TO1+ 4^{th} irrigation during hard dough stage TO3: 4 irrigations at 20-25 DAS (CRI stage), 40-45 DAS (Tillering stage), 60-70 DAS (Jointing/booting stage),100-105 DAS (Milking stage) with border irrigation method
Source of technology	PAU, Ludhiana. 2020.
No of trial	10
Detail of critical input	Cost on making ridges/ subsidiary bunds in the field and other cost related to irrigation, seed etc.
Cost of individual critical input	Rs. 1200/ unit
Total cost of critical input	Rs. 12000/ha
Performance indicator to be recorded	Technical indicator (Water use, water saving, water use efficiency (kg/ha-cm), Yield (Q/ha) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio)

OFT-9 (Agricultural Engineering) **Crop name: Cauliflower, Area:580.76 ha, District yield:190.0 q/ha, State yield:196.0 q/ha**

Crop	Cauliflower
Season	Rabi 2026-27
Main problem	Low yield and poor curd quality of Cauliflower due to improper water management
Main cause	Excess irrigation and lack of moisture conservation technique
Title of OFT	Assessment of low-cost mulching techniques for improving yield and quality of Cauliflower under irrigated conditions
Farming situation	Soil Type- Clay loam, Land type- Medium upland, Irrigation type-borewell, Previous crop- Rice
Thematic area	Water Conservation
Farmer practice	FP : No mulch
Technology option selected for assessment	TO1: Mulching with Banana leaves TO2: Mulching with crop residue (Husk/Straw)
Source of technology	DRPCAU, Pusa. 2022
No of trial	10
Detail of critical input	Moisture conservation technique (by mulching), Banana leaf, crop residue, seed
Cost of individual critical input	Rs. 800/ unit
Total cost of critical input	Rs. 8000/ 0.4 ha
Performance indicator to be recorded	(i) Technical indicator (No. of irrigation, irrigation interval (days), Water saving (%), Weed density /m^2, Yield (Q/ha), water use efficiency (kg/ha-cm) (ii) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio)

OFT-10 (Animal Science) No. of Buffalo- 133867, Milk Production: 1.18 Lakh Lit/day

Crop	Dairy enterprise
Season	Kharif/Rabi
Main problem	Nutritional and hormonal imbalance of Buffalo Heifers cause Repeat Breeding

Main cause	Reproductive problem/ Anovulation/ Anestrus
Title of OFT	Therapeutic Management of Anestrus in Buffalo Heifers
Farming situation	Reproductive problem Anestrus in Buffaloes Heifers
Thematic area	Disease management
Farmer practice	FP: Only Deworming
Technology option selected for assessment	TO1: Bypass fat (50g/day) for a period of 30 days TO2: Minerals (60g per day) for a period of 30 days TO3: Injectable phosphorus (15 ml per week) for a period of 30 days
Source of technology	College of Veterinary Science, AAU (Assam Agricultural University), 2024
No of trial	10
Detail of critical input	Bypass fat, Mineral Mixture, Injectable Phosphorus
Cost of individual critical input	Mineral mixture- Rs. 3600/-, By pass fat- Rs. 4500/-, Dewormer- Rs. 600, Phosphorus- Rs. 4000/-
Total cost of critical input	Rs. 12200/-
Performance indicator to be recorded	• Reproductive performance • Conception rate %

Case Study 1: (Agriculture Extension)

Crop Diversification beyond the Paddy–Wheat System in Jehanabad District, Bihar

1. Introduction

The paddy–wheat cropping system dominates agriculture in Jehanabad district of Bihar. Although this system ensures food security, continuous cultivation of paddy and wheat has resulted in declining soil fertility, increased input costs, groundwater stress, and stagnating farm incomes. Crop diversification is considered a sustainable approach to enhance farmers' income, improve soil health, and reduce climate risk. This case study examines the scope, adoption, and impact of crop diversification beyond the paddy–wheat system in Jehanabad district.

2. Study Area

Major crops: Paddy, wheat, lentil, chickpea, mustard

3. Objectives of the Study

To assess the potential of diversified crops such as pulses, oilseeds, and vegetables

To study the economic benefits of crop diversification

To identify constraints in adoption of diversified cropping systems

4. Methodology

Research design: Descriptive and analytical

Sample size: 100 farmers

Sampling area: Kako and Ghosi blocks

Data sources:

Primary data: Farmer interviews and field observations

Secondary data: KVK reports, Agriculture Department records

Tools used: Percentage analysis and cost–benefit analysis

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	Paddy	ICM	Demonstration of fine rice variety Sabour Vibhuti	Seed	Kharif 2026	4.0	10	Technical indicator- Growth parameters, yield attributing characters and yield Economic indicator- Gross cost, Gross return, Net return, B:C ratio Farmer Feedback- Effectiveness of Technology, Ease of Adoption, Impact on Yield, Overall Satisfaction
2	Chickpea	ICM	Demonstration of HYV Chickpea cv. Sabour Chana-1	Seed	Rabi 2026-27	1.0	10	Technical indicator- Growth parameters, yield attributing characters & yield Economic indicator- Gross cost, Gross return, Net return, B:C ratio Farmer Feedback- Effectiveness of Technology, Ease of Adoption, Impact on Yield, Overall Satisfaction
3	Lentil	ICM	Demonstration in Lentil cv. IPL 220	Seed	Rabi 2026-27	1.0	20	Technical indicator- Growth parameters, yield attributing characters & yield Economic indicator- Gross cost, Gross return, Net return, B:C ratio Farmer Feedback- Effectiveness of Technology, Ease of Adoption, Impact on Yield, Overall Satisfaction
4	Paddy	IPM	Management of stem borer and leaf folder in Paddy	Pheromone traps, Chlorantraniliprole 18.5% SC	Kharif 2026	10.0	25	Technical indicator- Growth parameters, yield attributing characters & yield Economic indicator- Gross cost, Gross return, Net return, B:C ratio Farmer Feedback- Effectiveness of Technology, Ease of Adoption, Impact on Yield, Overall Satisfaction
5	Chickpea	IPM	Management of Pod Borer in Chickpea	Pheromone traps: (Helicoverpa) @ 4–5 traps/ha Spinosad 45 SC @ 150 ml/ha	Rabi 2026-27	10.0	25	Technical indicator- Growth parameters, yield attributing characters & yield Economic indicator- Gross cost, Gross return, Net return, B:C ratio Farmer Feedback- Effectiveness of Technology, Ease of Adoption, Impact on Yield, Overall Satisfaction
6	Paddy	INM	Demonstration of organic and Biofertilizers on soil health and rice yield	Seed ,RDF + PSB + BGA Full dose of P& K	Rabi 2026-27	5.0	25	Technical indicator: Yield attributing characters (Plant height, tillers/m^2, Panicle length, Grain and straw yield (q/ha)) Soil analysis (Soil Health status before and after) Economic indicators: Agronomical parameters (Net return , B:C Ratio, Cost of cultivation, Farmer Feedback:
7	Mustard	INM	Demonstration of Sulphur and micro nutrients (Zinc, Boron) in Mustard	Micronutrient	Rabi 2026-27	5.0	25	Technical indicator: Yield attributing characters (Pl height, No. of branches/plant, No. of Siliqua/plant, yield) Soil analysis (Soil Health status before and after) Economic indicators: Agronomical parameters (Net return B:C Ratio, Cost of cultivation, Farmer Feedback
8	Wheat	NRM	Demonstration of Nano Urea in wheat through agriculture drone	Nano Urea+ Agi Drone	Rabi 2026-27	10	25	Technical indicator- Quantity of fertilizer used, time saving, labour saving, field capacity Economic indicator – Yield, gross return, net return, B:C ratio Farmer Feedback-
9	Okra	Small farm tools and	Demonstration on use of Hand Bhindi Plucker	Hand Bhindi Plucker	Summer 2027	2	20	Technical indicator- Field capacity, time taken, labour consumed, Yield Economic indicator – Gross cost, Gross return, Net return, B:C ratio

		implements						Farmer Feedback-
10	Cow	Disease Management	Demonstration of GnRH (Buserelin) for reducing incidence of Post partum Anestrus in cross breed cow	Hormone GnRH (Buserelin)	Rabi 2026-27	20	20	Conception rate (%)
11	Lentil	Capacity Building and Awareness	Introduction of paira (utera) lentil in standing paddy (10–15 days before harvest)	Method Demonstration	Rabi 2026-27	2.0	10	Technical indicator: Training and Awareness regarding Para cropping Farmer Feedback- Effectiveness of Technology, Impact on Yield Economic indicators: Net return ,B:C Ratio, Cost of cultivation
				Total	11	38.0	140	

Sponsored Demonstration: NA

Crop	Area (ha)	No. of farmers
Climate Resilient Agriculture	200	500

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Farmers Training	11	January to December	275
2	Field days	11	November, April	550
3	Media coverage	10	January to December	Mass
4	Training for extension functionaries	2	January to December	50

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
Agri Drone	Wheat	2026-27	25	10.0	Nano urea	(I) Technical indicator- Quantity of fertilizer used, time saving, labour saving, field capacity (II) Economic indicator – Yield, gross return, net return, B:C ratio (III) Farmer Feedback-

(ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters /indicators
Cattle	Cross breed	20	20	GnRH (Busereline) 2.5 ml vial	Conception rate (%)

Details of all FLD in the given format

FLD-1 (Agronomy) Crop name: Paddy, Area:46414 ha, District yield: 35.74 q/ha, State yield: 30.68 q/ha

Title of FLD	Demonstration of fine rice variety Sabour Vibhuti		
Season & Year	Kharif 2026		
Main Problem	Low yield of quality Rice (Sonam, Puja)		
Main cause of problem	Unavailability of Suitable variety (Fine Rice)		
Full detail of farmer's Practice	Local seed of fine Rice (Sonam, Puja)		
Full detail of technology to be demonstrated	Paddy variety Sabour Vibhuti		
Source of Technology with year	BAU, Sabour, 2023		
Name of the Technology	Fine Rice variety Sabour Vibhuti		
Thematic area	ICM		
Name of villages	Katauli, Chotki Akaouna, Amarpura, Jhoonathi		
Farming situation	Irrigated Paddy-Mustard-Moong		
Area (ha)/Unit (No.)	4 ha	No.of farmers	10
Performance indicator	(I) Technical indicator- Growth parameters, yield attributing characters and yield (II) Economic indicator- Gross cost, Gross return, Net return, B:C ratio (III) Farmer Feedback- Effectiveness of Technology, Ease of Adoption, Impact on Yield, Overall Satisfaction		

FLD-2 (Agronomy) Crop: Chickpea, Crop area: 3476 ha: , District yield: 11.19 Q/ha, State yield: 9.74 Q/ha

Title of FLD	Demonstration of HYV Chickpea cv. Sabour Chana-1		
Season & Year	Rabi 2026-27		
Main Problem	Low yield of Gram		
Main cause of problem	Unavailability of improved variety of Seed		
Full detail of farmer's Practice	Use of local variety of Chickpea		
Name of the Technology	Chickpea Seed vr. Sabour Channa-1		
Full detail of technology to be demonstrated	Seed of Gram vr. Sabour Channa-1		
Thematic area	Integrated Crop Management		
Source of Technology with year	BAU, Sabour- 2018		
Name of villages	Ranipur, Jhunathi, Vishunpur, Jaikishunbigha		
Farming situation	Rainfed (Paddy-Gram- Moong)		
Area (ha)/Unit (No.)	1.0	No.of farmers	10
Performance indicator	i) Technical indicator- Growth parameters, yield attributing characters & yield ii) Economic indicator- Gross cost, Gross return, Net return, B:C ratio iii) Farmer Feedback- Effectiveness of Technology, Ease of Adoption, Impact on Yield, Overall Satisfaction		

FLD-3 (Agronomy) Crop: Lentil, Crop area: 7140 ha: , District yield: 8.76 Q/ha, State yield: 8.13 Q/ha

Title of FLD	**Demonstration in Lentil cv. IPL 220**		
Season & Year	Rabi 2026-27		
Main Problem	Low yield of Lentil		
Main cause of problem	Unavailability of improved variety of Lentil		
Full detail of farmer's Practice	Use of local variety of Lentil		
Name of the Technology	Lentil cv. IPL 220		
Full detail of technology to be demonstrated	Lentil seed cv. IPL 220+ Timely Sowing + RDF		
Thematic area	Integrated Crop Management		
Source of Technology with year	IIPR, Kanpur 2018		
Name of villages	Dhanadhari, Jhunathi, Vishunpur, Jaikishunbigha		
Farming situation	Rainfed (Paddy-Lentil- Moong)		
Area (ha)/Unit (No.)	1.0	No. of farmers	10
Performance indicator	(I) Technical indicator- Growth parameters, yield attributing characters & yield (II) Economic indicator- Gross cost, Gross return, Net return, B:C ratio (III) Farmer Feedback- Effectiveness of Technology, Ease of Adoption, Impact on Yield, Overall Satisfaction		

FLD-4 (Entomology) **Crop name: Paddy, Area:46414 ha, District yield: 35.74 q/ha, State yield: 30.68 q/ha**

Title of FLD	Management of stem borer and leaf folder in Paddy		
Season & Year	Kharif 2026		
Main Problem	The yellow stem borer and leaf folder, along with a few other key pests, can cause yield losses of 21–51% in diverse rice agro-ecosystems.		
Main cause of problem	stem borer and leaf folder		
Full detail of farmer's Practice	Use of conventional insecticides (e.g., Phorate, chlorpyriphos, dimethoate) prevalent among paddy farmers in Jehanabad		
Name of the Technology	Pheromone traps, Chlorantraniliprole		
Full detail of technology to be demonstrated	• Pheromone traps: 3 traps/acre for yellow stem borer monitoring • Chlorantraniliprole 18.5% SC @ 60 ml/acre Monitoring (Core IPM step) • Install pheromone traps: 3 traps/acre for yellow stem borer monitoring (and mass trapping support). 2. Need-based chemical control • Chlorantraniliprole 18.5% SC @ 60 ml/acre in ~200 L water Apply when ETL / rising infestation is observed (dead hearts / white earheads trend).		
Thematic area	IPM		
Source of Technology with year	ICAR–NRRI, 2024		
Name of villages	Sahpur, Saristabad, Safepur, Chappana		
Farming situation	Irrigated Paddy-Wheat		
Area (ha)/Unit (No.)	10.0 ha	No. of Farmer	25
Performance indicator	(I) Technical indicator- Growth parameters, yield attributing characters & yield (II) Economic indicator- Gross cost, Gross return, Net return, B:C ratio Farmer Feedback- Effectiveness of Technology, Ease of Adoption, Impact on Yield, Overall Satisfaction		

FLD-5 (Entomology)Crop: **Chickpea, Crop area: 3476 ha: , District yield: 11.19 Q/ha, State yield: 9.74 Q/ha**

Title of FLD	Management of Pod Borer in Chickpea		
Season & Year	Rabi 2026-27		
Main Problem	Pod borer (*Helicoverpa armigera*) can cause 30–50% yield loss in chickpea, and in severe outbreaks losses may reach 60–80% if timely management is not adopted		
Main cause of problem	Pod Borer (*H. armigera*)		
Full detail of farmer's Practice	Use of conventional insecticides (e.g., Phorate, chlorpyriphos, dimethoate) prevalent among gram farmers in Jehanabad		
Full detail of technology to be demonstrated	• Pheromone traps: (Helicoverpa) @ 4–5 traps/ha • Spinosad 45 SC @ 150 ml/ha Timing: at flowering / early pod formation (need-based), repeat only if required at 10–15 days interval depending on pest pressure and ETL.		
Source of Technology with year	ICAR–AICRP on Biological Control (AICRP-BC) – XXX Annual Review Meeting Proceedings (2021).		
Thematic area	IPM		
Name of villages	Devghara, Noorpur, Modanganj, Nonhi		
Farming situation	Paddy-Gram		
Area (ha)/Unit (No.)	10.0 ha	No. of Farmer	25
Performance indicator	(I) Technical indicator- Growth parameters, yield attributing characters & yield (II) Economic indicator- Gross cost, Gross return, Net return, B:C ratio (III) Farmer Feedback- Effectiveness of Technology, Ease of Adoption, Impact on Yield, Overall Satisfaction		

FLD-6 (Soil Science) **Crop name: Paddy, Area: 46414 ha, District yield: 35.74 q/ha, State yield: 30.68 q/ha**

Title of FLD	Demonstration of organic and Biofertilizers on soil health and rice yield		
Season & Year	Kharif 2026		
Main Problem	Low yield of rice		
Main cause of problem	Imbalanced use of chemical fertilizers and Inefficient nutrient uptake		
Full detail of farmer's Practice	75% RDF (N:P:K), No use of biofertilizer input, Broadcasting of fertilizer without soil testing, Sowing/transplanting without seed or seedling treatment		
Full detail of technology to be demonstrated	100% RDF +PSB 2.5 kg/ha+ BGA 10 kg/ha, applied to standing water (1-2 inches deep), Full dose of P&K and 50% of N as basal transplanting, remaining N in 2 splits: tillering and panicle initiation stage, soil test based fertilizer application, seed treatment with PSB before sowing for root dip for 30 min. before transplanting, BGA application in 7-10 days after transplanting in standing water with uniform broadcasting over 3-4 cm water depth, proper weed management 20 DAS, 2nd at 35-40 DAS		
Source of Technology with year	BAU, Sabour-2023		
Name of the Technology	PSB and BGA		
Thematic area	Integrated Nutrient Management		
Name of villages	Mustafapur, Korma		
Farming situation	Soil type- Sandy loam, Clay loam Land type- Medium land/ Low land , Irrigation type- Irrigated/Rainfed Previous crop- Wheat		
Area (ha)/Unit (No.)	5 ha	No. of farmers	25
Performance indicator	Technical indicator: Yield attributing characters (Plant height, tillers/m^2, Panicle length, Grain and straw yield (q/ha)) Soil analysis (Soil Health status before and after) Economic indicators: Agronomical parameters (Net return , B:C Ratio, Cost of cultivation, Farmer Feedback:		

FLD-7 (Soil Science) **Area of Mustard in Jehanabad 1753 ha, District Productivity 9.59 q/ha, state productivity 12.63 q/ha**

Title of FLD	Demonstration of Sulphur and micro nutrients (Zinc, Boron) in Mustard		
Season & Year	Rabi 2026		
Main Problem	Low yield of mustard and oil content		
Main cause of problem	Imbalance use of chemical fertilizers		
Full detail of farmer's Practice	50% RDN(40kg) and 150% P_2O_5(60 kg) and 50% K_2O(20kg) of RDF (80:40:40 NPK kg/ha) No application of micronutrient, sowing by local method, No soil test based fertilizer application, Irrigation only if urgently required		
Full detail of technology to be demonstrated	RDF + Sulphur @20kg/ha+$ZnSO_4$@25kg/ha + Borax @10kg/ha, Sowing in line, Use of treated seeds and recommended seed rate, Timely weed, insect- pest and disease management, Irrigation at critical growth stages if needed		
Source of Technology with year	BAU, Sabour-2023		
Name of the Technology	Balanced fertilization with sulphur, zinc and Boron		
Thematic area	Integrated nutrient management		
Name of villages	Mustafapur, Korma		
Farming situation	Soil type- Sandy loam, Clay loam Land type- Medium upland , Irrigation type-Irrigated , Previous crop- Rice		
Area (ha)/Unit (No.)	5 ha	No. of farmers	25
Performance indicator	Technical indicator: Yield attributing characters (Pl height, No. of branches/plant, No. of Siliqua/plant, yield) Soil analysis (Soil Health status before and after) Economic indicators: Agronomical parameters (Net return B:C Ratio, Cost of cultivation, Farmer Feedback		

FLD-8 (Agriculture Engineering) **Crop name: Wheat, Area:35664 ha, District yield: 32.49 q/ha, State yield: 32.11 q/ha**

Title of FLD	Demonstration of Nano Urea in wheat through agriculture drone		
Season & Year	Rabi 2026-27		
Main Problem	Uneven spray of fertilizer		
Main cause of problem	Farmers needs to Broadcast large quantity of granular urea/ DAP		
Full detail of farmer's Practice	Manual broadcasting of granular urea/ DAP		
Full detail of technology to be demonstrated	Spray of liquid Nano fertilizer (DAP/Urea 500ml/Acre) through agriculture drone		
Source of Technology with year	ICAR-CIAE, BHOPAL 2024		
Name of the Technology	Use of Agriculture Drone		
Thematic area	Precision farming		
Name of villages	Sahpur, Safepur		
Farming situation	Rice- Wheat		
Area (ha)/Unit (No.)	10.0	No of farmers	25
Performance indicator	Technical indicator- Quantity of fertilizer used, time saving, labour saving, field capacity Economic indicator – Yield, gross return, net return, B:C ratio Farmer Feedback-		

FLD-9 (Agriculture Engineering) Crop : Okra , Area:699 ha, District yield: 144.9 q/ha, State yield: 133.5 q/ha

Title of FLD	Demonstration on use of Hand Bhindi Plucker		
Season & Year	Rabi 2026-27		
Main Problem	Hand plucking takes long time, labour consuming, chances of hand injury from thorny/chemical materials during bhindi harvesting, damage to plants		
Main cause of problem	Injury (itching) to hand and damage to the plants		
Full detail of farmer's Practice	Hand Plucking		
Full detail of technology to be demonstrated	Use of hand (finger operated) Bhindi Plucker for safe harvesting		
Source of Technology with year	BAU, Ranchi. 2022		
Name of the Technology	Use of hand Bhindi Plucker		
Thematic area	Small farm tools and implements		
Name of villages	Safepur, Keshopur, Dharampur		
Farming situation	Rice- Wheat-vegetable		
Area (ha)/Unit (No.)	2.0	No. of farmers	20
Performance indicator	Technical indicator- Field capacity, time taken, labour consumed, Yield Economic indicator – Gross cost, Gross return, Net return, B:C ratio Farmer Feedback-		

FLD-10 (Animal Science) **Cattle population in district: 9987, District milk production/ month- 9000 L**

Title of FLD	Demonstration of GnRH (Buserelin) for reducing incidence of Post partum Anestrus in cross breed cow
Season & Year	Kharif/ Rabi 2026-27
Main Problem	Infertility/ anovulation in cross breed cattle
Main cause of problem	Hormonal deficiency
Full detail of farmer's Practice	GnRH (Buserelin) 2.5 ml, I/M route of administration 21 days after parturition of cross breed cow
Full detail of technology to be demonstrated	GnRH (Buserelin) 2.5 ml, I/M route of administration in cow
Source of Technology with year	IVRI, Bareily 2023
Name of the Technology	GnRH (Buserelin) is use for controlling of Anestrus in Post partum cross breed cow
Thematic area	Disease management
Name of villages	Murgaon, Sarthua, Jehanbad, Savnan, Rampur Carui, Sakraurha

Farming situation	Hormonal imbalanced in cross breed cow		
Area (ha)/Unit (No.)	20 unit	No. of farmers	20
Performance indicator	Conception rate (%)		

FLD-11 (Agriculture Extension) Crop: Lentil, Crop area: 7579 ha: , District yield: 13 Q/ha, State yield: 9.85 Q/ha

Title of FLD	Promotion of Paira (Utera) Lentil in Long Duration Paddy-Based Cropping System		
Season & Year	Rabi 2026-27		
Main Problem	Low cropping intensity and underutilization of residual soil moisture after long-duration paddy cultivation		
Main cause of problem	Lack of awareness about paira (utera) cropping and non-adoption		
Full detail of farmer's Practice	Farmers grow long-duration paddy Low cropping intensity		
Full detail of technology to be demonstrated	Introduction of paira (utera) lentil in standing paddy (10–15 days before harvest)		
Source of Technology with year	ICAR–Indian Institute of Pulses Research (IIPR), Kanpur, 2023		
Name of the Technology	Paira (Utera) Cropping Technology in Rice-based System		
Thematic area	Capacity Building and Awareness		
Name of villages	Korma, Murgaon		
Farming situation	Soil type- Sandy loam, Clay loam Land type- medium upland Irrigation type-Irrigated Previous crop- Rice		
Area (ha)/Unit (No.)	2 ha	No. of farmers	10
Performance indicator	Technical indicator: Training and Awareness regarding Para cropping Farmer Feedback- Effectiveness of Technology, Impact on Yield Economic indicators: Net return ,B:C Ratio, Cost of cultivation		

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

3.4

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								
Weed Management	2	30	10	40	10	0	10	50
Resource Conservation Technologies								
Cropping Systems								
Crop Diversification								
Site specific nutrient management								
Integrated Farming								
Water management	1	15	5	20	5	0	5	25
Seed production	1	15	5	20	5	0	5	25
Nursery management								
Integrated Crop Management								
Fodder production								
Production of organic inputs								
Natural farming	3	45	15	60	15	0	15	75
Crop production								
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	2	30	10	40	10	0	10	50
Off-season vegetables								
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)	1	15	5	20	5	0	5	25
Natural farming								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards	1	15	5	20	5	0	5	25
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								

Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management	1	15	5	20	5	0	5	25
Soil and Water Conservation	1	15	5	20	5	0	5	25
Integrated Nutrient Management								
Production and use of organic inputs	1	15	5	20	5	0	5	25
Management of Problematic soils	1	15	5	20	5	0	5	25
Micro nutrient deficiency in crops	1	15	5	20	5	0	5	25
Nutrient Use Efficiency	1	15	5	20	5	0	5	25
Soil and Water Testing								
IV Livestock Production and Management								
Dairy Management								
Poultry Management	1	15	5	20	5	0	5	25
Piggery Management	1	15	5	20	5	0	5	25
Rabbit Management/goat								
Disease Management	3	45	15	60	15	0	15	75
Feed management								
Production of quality animal products								
Brooding / Rearing of chicks								
Goat Farming	1	15	5	20	5	0	5	25
Nutritional management	1	15	5	20	5	0	5	25
Fish cum Duck farming								
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								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition								
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies	1	15	5	20	5	0	5	25
Rural Crafts								
Women and child care								
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements	3	45	15	60	15	0	15	75
Small scale processing and value addition								
Post Harvest Technology								
Water conservation	1	15	5	20	5	0	5	25
VII Plant Protection								
Integrated Pest Management	5	75	25	100	25	0	25	125
Integrated Disease Management	3	45	15	60	15	0	15	75
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								

Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development	1	15	5	20	5	0	5	25
Group dynamics								
Formation and Management of SHGs/FPOs etc	1	15	5	20	5	0	5	25
Mobilization of social capital								
Entrepreneurial development of farmers/youths	1	15	5	20	5	0	5	25
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII Others (Pl. Specify)								
TOTAL	**41**	**615**	**205**	**820**	**205**	**0**	**205**	**1025**
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming	1	15	5	20	5	0	5	25
Seed production	2	30	10	40	10	0	10	50
Production of organic inputs								
Integrated Farming (Medicinal)								
Planting material production								
Vermi-compost production								
Sericulture								

Protected cultivation of vegetable crops	1	15	5	20	5	0	5	25
Commercial fruit production								
Repair and maintenance of farm machinery and implements	2	30	10	40	10	0	10	50
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition								
Production of quality animal products								
Dairying	1	15	5	20	5	0	5	25
Sheep and goat rearing	1	15	5	20	5	0	5	25
Quail farming								
Piggery								
Rabbit farming								
Poultry production	1	15	5	20	5	0	5	25
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing	1	15	5	20	5	0	5	25
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
Organic farming/Natural farming	1	15	5	20	5	0	5	25
Cultivation of aromatic and medicinal Plant								
Millet production								
Balanced diet								
Enterprise development								
INM	1	15	5	20	5	0	5	25
Soil and water conservation								
TOTAL	**13**	**195**	**65**	**260**	**65**	**0**	**65**	**325**
(C) Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management	1	15	5	20	5	0	5	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	1	15	5	20	5	0	5	25
WTO and IPR issues								
Management in farm animals	1	15	5	20	5	0	5	25
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								
Installation and maintenance of MIS								
Natural farming	1	15	5	20	5	0	5	25
ICM	1	15	5	20	5	0	5	25
Weed management	1	15	5	20	5	0	5	25
Soil fertility management	1	15	5	20	5	0	5	25
TOTAL	**07**	**105**	**35**	**140**	**35**	**0**	**35**	**175**
G. Total	**54**	**810**	**270**	**1080**	**270**	**0**	**270**	**1350**

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								
Resource Conservation Technologies								
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management	1	15	5	20	5	0	5	25
Integrated Crop Management	3	45	15	60	15	0	15	75
Fodder production								
Production of organic inputs								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables								
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								

g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management	1	15	5	20	5	0	5	25
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops	2	30	10	40	10	0	10	50
Nutrient Use Efficiency								
Soil and Water Testing								
Organic Farming								
Crop Residue Management								
Mushroom production								
IV Livestock Production and Management								
Dairy Management	1	15	5	20	5	0	5	25
Poultry Management	1	15	5	20	5	0	5	25
Piggery Management								
Rabbit Management /goat								
Disease Management								
Feed management								
Production of quality animal products								
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								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition								
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
Post Harvest Technology								
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems	3	45	15	60	15	0	15	75
Use of Plastics in farming practices	1	15	5	20	5	0	5	25
Production of small tools and implements	1	15	5	20	5	0	5	25
Repair and maintenance of farm machinery and implements	3	45	15	60	15	0	15	75
Small scale processing and value addition								

Post Harvest Technology								
Water conservation	4	60	20	80	20	0	20	100
VII Plant Protection								
Integrated Pest Management	5	75	25	100	25	0	25	125
Integrated Disease Management	3	45	15	60	15	0	15	75
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
Natural farming	1	15	5	20	5	0	5	25
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development	2	30	10	40	10	0	10	50
Group dynamics	1	15	5	20	5	0	5	25
Formation and Management of SHGs(HS)	2	30	10	40	10	0	10	50
Mobilization of social capital	2	30	10	40	10	0	10	50
Entrepreneurial development of farmers/youths (Agro)								
WTO and IPR issues	2	30	10	40	10	0	10	50
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
XII Others (Pl. Specify)								

TOTAL	**39**	**585**	**195**	**780**	**195**	**0**	**195**	**975**
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs								
Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition								
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
Natural Farming								
Organic cultivation								
Disease management								
TOTAL	0	0	0	0	0	0	0	0
(C) Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								

Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Water conservation								
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
G. Total	**38**	**570**	**190**	**760**	**190**	**0**	**190**	**950**

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	2	30	10	40	10	0	10	50
Resource Conservation Technologies								
Cropping Systems								
Crop Diversification								
Integrated Farming	1	15	5	20	5	0	5	25
Water management	1	15	5	20	5	0	5	25
Seed production	1	15	5	20	5	0	5	25
Nursery management	1	15	5	20	5	0	5	25
Integrated Crop Management	3	45	15	60	15	0	15	75
Fodder production								
Production of organic inputs								
Crop production								
Natural Farming	3	45	15	60	15	0	15	75
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	2	30	10	40	10	0	10	50
Off-season vegetables								
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)	1	15	5	20	5	0	5	25
b) Fruits								
Training and Pruning								
Layout and Management of Orchards	1	15	5	20	5	0	5	25
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								

III Soil Health and Fertility Management								
Soil fertility management	1	15	5	20	5	0	5	25
Soil and Water Conservation	1	15	5	20	5	0	5	25
Integrated Nutrient Management	1	15	5	20	5	0	5	25
Production and use of organic inputs	1	15	5	20	5	0	5	25
Management of Problematic soils	1	15	5	20	5	0	5	25
Micro nutrient deficiency in crops	3	45	15	60	15	0	15	75
Nutrient Use Efficiency	1	15	5	20	5	0	5	25
Soil and Water Testing								
Organic Farming								
Crop Residue Management								
Mushroom production								
IV Livestock Production and Management								
Dairy Management	1	15	5	20	5	0	5	25
Poultry Management	2	30	10	40	10	0	10	50
Piggery Management	1	15	5	20	5	0	5	25
Rabbit Management /goat	1	15	5	20	5	0	5	25
Disease Management	3	45	15	60	15	0	15	75
Feed management								
Production of quality animal products								
Brooding and rearing of Chicks								
Nutritional management	1	15	5	20	5	0	5	25
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								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition								
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies	1	15	5	20	5	0	5	25
Rural Crafts								
Women and child care								
Post Harvest Technology								
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems	3	45	15	60	15	0	15	75
Use of Plastics in farming practices	1	15	5	20	5	0	5	25
Production of small tools and implements	1	15	5	20	5	0	5	25
Repair and maintenance of farm machinery and implements	5	75	25	100	25	0	25	125
Small scale processing and value addition								
Post Harvest Technology								
Water Conservation	5	75	25	100	25	0	25	125

Irrigation management								
VII Plant Protection								
Integrated Pest Management	10	150	50	200	50	0	50	250
Integrated Disease Management	6	90	30	120	30	0	30	150
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development	3	45	15	60	15	0	15	75
Group dynamics	1	15	5	20	5	0	5	25
Formation and Management of SHGs(HS)	2	30	10	40	10	0	10	50
Mobilization of social capital	2	30	10	40	10	0	10	50
Entrepreneurial development of farmers/youths (Agro)	1	15	5	20	5	0	5	25
WTO and IPR issues	2	30	10	40	10	0	10	50
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
XII Others (Pl. Specify)								
TOTAL	**80**	**1200**	**400**	**1600**	**400**	**0**	**400**	**2000**

(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming	1	15	5	20	5	0	5	25
Seed production	2	30	10	40	10	0	10	50
Production of organic inputs								
Planting material production								
Vermi compost production								
Sericulture								
Protected cultivation of vegetable crops	1	15	5	20	5	0	5	25
Commercial fruit production								
Repair and maintenance of farm machinery and implements	2	30	10	40	10	0	10	50
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition								
Production of quality animal products								
Dairying	1	15	5	20	5	0	5	25
Sheep and goat rearing	2	30	10	40	10	0	10	50
Quail farming								
Piggery								
Rabbit farming								
Poultry production	1	15	5	20	5	0	5	25
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing	1	15	5	20	5	0	5	25
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
Organic cultivation	1	15	5	20	5	0	5	25
Natural Farming								
Cultivation of aromatic and medicinal Plant								
Millet production								
Balanced diet								
Disease management								
Enterprise development								
INM	1	15	5	20	5	0	5	25
Soil & water conservation								
TOTAL	**13**	**195**	**65**	**260**	**65**	**0**	**65**	**325**
(C) Extension Personnel								
Productivity enhancement in field crops								

Integrated Pest Management	1	15	5	20	5	0	5	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	1	15	5	20	5	0	5	25
WTO and IPR issues								
Management in farm animals	1	15	5	20	5	0	5	25
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								
Installation and maintenance of MIS								
Water conservation								
Natural farming	1	15	5	20	5	0	5	25
ICM	1	15	5	20	5	0	5	25
Weed management	1	15	5	20	5	0	5	25
Soil fertility	1	15	5	20	5	0	5	25
TOTAL								
G. Total	7	165	55	220	55	0	55	275

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	11	220	55	275	0	0	0	220	55	275
Kisan Mela	1	300	100	400	10	4	14	310	104	414
Kisan Ghosthi	2	400	200	600	5	2	0	405	202	607
Exhibition	2	400	100	500	0	0	0	400	100	500
Film Show	0									0
Farmers Seminar	0									0
Workshop	4									4
Group meetings	0									0
Lectures delivered as resource persons	40	800	200	1000	0	0	0	800	200	1000
Newspaper coverage	12									12
Radio talks	5									5
TV talks	5									5
Popular articles	2									2
Extension Literature	5									5
Advisory Services	1	450	50	500	0	0	0	450	50	500
Scientific visit to farmers field	100	750	250	1000	0	0	0	750	250	1000
Farmers visit to KVK	1	450	50	500	0	0	0	450	50	500
Diagnostic visits	144	100	44	144	0	0	0	100	44	144

Exposure visits	2	75	25	100	0	0	0	75	25	100
Ex-trainees Sammelan	1	100	0	100	0	0	0	100	0	100
Soil health Camp	7	75	25	100	0	0	0	75	25	100
Animal Health Camp	4	175	25	200	5	2	7	180	27	207
Agri mobile clinic										
Soil test campaigns	1	80	20	100	0	0	0	80	20	100
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	8	45	5	50	0	0	0	45	5	50
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	12	450	50	500	0	0	0	450	50	500
Krishi Mohostva	0									
Krishi Rath	0									
Pre Kharif workshop	1	350	50	400	0	0	0	350	50	400
Pre Rabi workshop	1	350	50	400	0	0	0	350	50	400
PPVFRA workshop	0									
Total	372	5570	1299	6869	20	8	21	5590	1307	6930

3.5 Target for Production and supply of Technological products

A) SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	HD-2967	100
	Paddy	Rajendra Sweta	150
OILSEEDS	Mustard	BPM 11	5
PULSES			
VEGETABLES	Potato	Thar-2	50
OTHERS (Specify)			

B) PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES	Brinjal	R. Baigan	15000
	Chilli	Swarn Prafulla	25000
	Tomato	Kashi Vishesh	10000
FOREST SPECIES			
ORNAMENTAL CROPS			
		Total	**60000**

C) BIO-PRODUCT:

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIO PESTICIDES				
1				
2				

D) LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
Cattle				
Dairy	Milk	Crossed breed	2	1
GOAT	Meat	Black Bengal & Barbari	5	1
SHEEP				
POULTRY	Egg & Meat	Vanraja & Sonali	50	1
Pig farming				
FISHERIES				

3.6 Literature to be Developed/Published

(A) KVK News Letter

Date of start : -

Number of copies to be published : -

(B) Literature to be developed/published

S.No.	Topic	Number
1	Research paper each scientist	1
2	Technical reports	5
3	News letters	0
4	Training manual all discipline	0
5	Popular article	6
6	Extension literature	6
	Total	**18**

(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	Natural Farming	100

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

Title of the success story/case study: **Integrated farming system**

Case study: **Waste to wealth- Success through Natural farming**

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

a) Surveys

b) Intervention, focus group, observation

c) Observation

Rural Youth

a) Survey, interviews, focus groups

b) Performance, pre-performance also

c**) Observation**

d)

In-service personnel

a) Survey

b) Intervention

c**) Observation**

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 farmer's 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)–Village- Amarpura
ii. No. of farm families selected per village: 20
iii. No. of PRA conducted: 2
iv. No. of technologies taken to the adopted villages- 4
v. Name of the technologies found suitable by the farmers of the adopted villages:
ZT, IFS, Stall feeding, Direct seeding of onion, Mulching in Potato
vi. Impact (production, income, employment, area/technological– horizontal/vertical): Increase production, Area
vii. Constraints if any in the continued application of these improved technologies: Small land size

3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab:

1. Year of establishment : 2015-16

2. List of equipment's purchase with amount

Sl. No.	Name of the equipment	Quantity	Cost (Rs)
1	Mridaprikshak Soil test Minilab.	1	75000

3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	250	250	12	
Water				
Plant				
Total	**250**	**250**	**12**	

4.0 LINKAGES

4.1 Functional linkage with different organizations/department

Sl.No.	Name of organization	Nature of Linkage	Outcome of linkage
1	DM Office	Krishi Task force meeting	Technology transfer
2	DAO	Diagnostic survey, joint implementation and training	Development of plan
3	DHO	Participation in meetings and training.	Development of plan

4	ATMA	Training, Demonstration and Refinement of technology	Dissemination of technology
5	Bank	Coordination for Farmers club and SHG formation & functioning.	Dissemination of technology
6	COMFED	Marketing & Training.	Income generation
7	Bihar Veterinary College, Patna	Infertility camp/ training	Disease control, enhance milk Production
8	Magadh Dairy, Gaya	Animal health camp along with vaccination, Training of AI workers, PashuMela, Crop Residue Management	Disease control, enhance milk production, Employment generation
9	NABARD	Farmer's club formation, FPO	Employment generation, enhance milk production, Dissemination of technology
10	BAU, Sabour	Training, workshop, administration, financial, Kisan mela, seed production etc.	Employment generation, Dissemination of technology, Development of plan, Income generation
11	Bihar Govt.	Crop Resilient Agriculture Programme, Centre of Excellence for Millets Value Chain	Development of plan, Adoption of new technology
12	BAMETI, Patna	DAESI, Domain and RPL training	Employment generation

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	Kisan Gosthi	Need based	Technology dissemination
2	Kisan Mela	Need based	Technology dissemination
3	Scientist Farmers Interaction	Need based	Technology dissemination

5. Utilization of Hostel facilities

S. No.	Programme	No. of days
1	**RY skill development training**	**5-10 days**
2	**RAWE training**	**180 days**
	Total	

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	Number of participants			Number of SC/ST			G. Total	Month of training
				M	F	T	M	F	T		
Crop Production											
17/2/2026	PF/FW	Scientific cultivation of Summer Crop	1	6	6	12	7	6	13	25	Feb
10/06/2026	PF/FW	Scientific Cultivation of Kharif Crops	1	20	5	25	5	0	5	25	June
12/07/2026	PF/FW	Weed management in Kharif crop	1	20	5	25	5	0	5	25	July
11/08/2026	PF/FW	Commercial Seed production techniques	1	20	5	25	5	0	5	25	August
05/10/2026	PF/FW	Scientific cultivation of Rabi Oilseed crop	1	20	5	25	5	0	5	25	Oct
16/10/2026	PF/FW	Weed Management in Rabi Crop	1	20	5	25	5	0	5	25	Oct
09/12/2026	PF/FW	Irrigation scheduling in Rabi Crop	1	20	5	25	5	0	5	25	Dec
Horticulture											
10/06/2026	PF/FW	Establishment and Lay out of New Orchards	1	20	5	25	5	0	5	25	June
16/07/2026	PF/FW	Cultivation of rainy season vegetable and its management	1	20	5	25	5	0	5	25	July
14/10/2026	PF/FW	Cultivation of winter season vegetable and its management	1	20	5	25	5	0	5	25	Oct
11/11/2026	PF/FW	Kitchen gardening and Nutritional Gardening	1	20	5	25	5	0	5	25	Nov
4/12/2026	PF/FW	Protected cultivation and precision farming	1	20	5	25	5	0	5	25	Dec
28/12/2026	PF/FW	Medicinal and Aromatic palnt cultivation	1	20	5	25	5	0	5	25	Dec
Livestock prod.											
20/1/2026	PF/FW	Disease management of Livestock	1	20	5	25	5	0	5	25	Jan
18/2/2026	PF/FW	Disease management of Poultry	1	20	5	25	5	0	5	25	Feb
25/3/2026	PF/FW	Control of infertility in dairy cattle	1	20	5	25	5	0	5	25	March
16/5/2026	PF/FW	Zoonotic diseases of dairy cattle and its control	1	20	5	25	5	0	5	25	May
14/6/2026	PF/FW	Integrated farming System	1	20	5	25	5	0	5	25	June
16/8/2026	PF/FW	Feeding & diseases management of goats	1	20	5	25	5	0	5	25	Augt
20/9/226	PF/FW	Nutritional management of Dairy cattle	1	20	5	25	5	0	5	25	Sept
Agril. Engg.											
09/02/2026	PF/FW	Irrigation application methods in wheat and mustard	1	20	5	25	5	0	5	25	Feb
19-20/03/2026	PF/FW	Operation, repair and maintenance of crop harvesting and threshing machineries	2	20	5	25	5	0	5	25	March
9/12/2026	PF/FW	Irrigation scheduling in Rabi Crop	1	20	5	25	5	0	5	25	Dec
Home Sc.											
	PF/FW										
Plant protection											

12/06/2026	PF/FW	Management of Insect pests and Diseases of Paddy	1	20	5	25	5	0	5	25	June
24/07/2026	PF/FW	Management of major insect pests and disease of kharif crops	1	20	5	25	5	0	5	25	July
08/09/2026	PF/FW	IPM in winter vegetable	1	20	5	25	5	0	5	25	Sept.
06/10/2026	PF/FW	Insect Pest and disease management in Oilseeds	1	20	5	25	5	0	5	25	Oct.
15/10/2026	PF/FW	Wilt management in Lentil and Chickpea crop	1	20	5	25	5	0	5	25	Oct
12/11/2026	PF/FW	Management of Aphid in Mustard and wheat crop	1	20	5	25	5	0	5	25	Nov
Fisheries											
	PF/FW										
Soil health											
18/5/2026	PF/FW	Importance of green manuring in soil	1	20	5	25	5	0	5	25	May
25/5/2026	PF/FW	Soil sampling technique and soil health card	1	20	5	25	5	0	5	25	may
11/6/2026	PF/FW	Role of vermicompost and biofertilizer in improving soil health	1	20	5	25	5	0	5	25	June
18/8/2026	PF/FW	Importance of micronutrient in Crop Production	1	20	5	25	5	0	5	25	Aug
21/9/2026	PF/FW	Problematic soil and its amendment	1	20	5	25	5	0	5	25	Sept
17/10/2026	PF/FW	Importance of quality of irrigation water	1	20	5	25	5	0	5	25	Oct
09/12/2026	PF/FW	Different types of mulches and its importance in crop production	1	20	5	25	5	0	5	25	Dec
Extension											
08/06/2026	PF/FW	Building Leadership Skills for Progressive Farmers	1	20	5	25	5	0	5	25	june
25/06/2026	PF/FW	Forming Effective Self-Help Groups	1	20	5	25	5	0	5	25	july
16/07/26	PF/FW	Enhancing Communication and Advocacy Skills in Agriculture	1	20	5	25	5	0	5	25	July
18/08/26	PF/FW	Small Scale income generating enterprises	1	20	5	25	5	0	5	25	Aug
14/10/26	PF/FW	Climate-Smart Agriculture	1	20	5	25	5	0	5	25	Oct.

i) Farmers & Farm women (Off 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											
09/4/2026	PF/FW	Scientific cultivation of Moong	1	20	5	25	5	0	5	25	April
17/06/2026	PF/FW	Cultivation techniques of Millets	1	20	5	25	5	0	5	25	April
30/06/2026	PF/FW	Methods of Rice nursery raising	1	20	5	25	5	0	5	25	May
14/07/2026	PF/FW	Integrated Crop management	1	20	5	25	5	0	5	25	July
20/08/2026	PF/FW	Irrigation management of Paddy	1	20	5	25	5	0	5	25	Aug
16/12/2026	PF/FW	Irrigation scheduling in Rabi Crop	1	20	5	25	5	0	5	25	Dec
Horticulture											
	PF/FW										
Live Stock Production.											
18/4/2026	PF/FW	Use of balanced ration for pigs.	1	20	5	25	5	0	5	25	April
18/7/2026	PF/FW	Feeding management of poultry	1	20	5	25	5	0	5	25	July

17/10/2026	PF/FW	Fish cum Duck farming	1	20	5	25	5	0	5	25	Oct
05/11/2026	PF/FW	Nutritional Management of Dairy cattle	1	20	5	25	5	0	5	25	Nov.
Agril. Engg.											
21/01/2026	PF/FW	On farm water management in Rabi crops	1	20	5	25	5	0	5	25	Jan
24/02/2026	PF/FW	Irrigation Water management in Wheat	1	20	5	25	5	0	5	25	Feb
16/04/2026	PF/FW	Selection, operation and safety of Improved tillage implement	1	20	5	25	5	0	5	25	April
28/04/2026	PF/FW	Micro irrigation and its application	1	20	5	25	5	0	5	25	April
05/05/2026	PF/FW	Cultivation Technique of Direct Seeded Rice	1	20	5	25	5	0	5	25	May
16/06/2026	PF/FW	Operation of sowing/planting implements	1	20	5	25	5	0	5	25	June
28/07/2026	PF/FW	Drudgery reduction machineries/ equipment's	1	20	5	25	5	0	5	25	July
20/08/2026	PF/FW	Techniques of on farm water management in Paddy	1	20	5	25	5	0	5	25	Aug
08/10/2026	PF/FW	Improved irrigation practices for better production of crops	1	20	5	25	5	0	5	25	Oct
20/11/2026	PF/FW	Operation, repair, maintenance of happy seeder Machine	1	20	5	25	5	0	5	25	Nov
Home Sc.											
	PF/FW										
Plant Protection											
17/02/2026	PF/FW	Pest management in Mustard	1	20	5	25	5	0	5	25	Feb
09/03/2026	PF/FW	Pest management in summer crops	1	20	5	25	5	0	5	25	March
08.04.2026	PF/FW	Pest management in summer Vegetables	1	20	5	25	5	0	5	25	April
02/07/2026	PF/FW	Management of Insect pests and Diseases of Kharif Crops	1	20	5	25	5	0	5	25	July
17/09/2026	PF/FW	Management of Insect pests and Diseases of Kharif vegetables	1	20	5	25	5	0	5	25	Sept
11/11/2026	PF/FW	Integrated pest management in vegetable crops	1	20	5	25	5	0	5	25	Nov
Fisheries											
	PF/FW										
Soil health											
07/01/2026	PF/FW	Application of Micronutrients in Rabi Crop	1	20	5	25	5	0	5	25	Jan
06/02/2026	PF/FW	Use of mulches for moisture conservation	1	20	5	25	5	0	5	25	Feb
09/03/2026	PF/FW	Green Manuring for Soil Health Management	1	20	5	25	5	0	5	25	March
06/08/2026	PF/FW	Integrated nutrient Management	1	20	5	25	5	0	5	25	Aug
02/9/2026	PF/FW	Role of biofertilizer and organic manure for sustainable crop Production	1	20	5	25	5	0	5	25	Sept
11/11/2026	PF/FW	Role of Natural Farming for sustainable crop production	1	20	5	25	5	0	5	25	Nov
Extension											
20/02/2026	PF/FW	Awareness and use of market intelligence	1	20	5	25	5	0	5	25	Feb.

11/03/2026	PF/FW	Entrepreneurship Development though poultry	1	20	5	25	5	0	5	25	March
21/05/2026	PF/FW	Financial and Social Management of SHGs	1	20	5	25	5	0	5	25	May
24/06/2026	PF/FW	Understanding Group Dynamics in Farming Communities	1	20	5	25	5	0	5	25	June
22/09/2026	PF/FW	Awareness regarding Paira (Utera)crop of lentil	1	20	5	25	5	0	5	25	Sept.
19/11/2026	PF/FW	Using Social Ties to Boost Productivity	1	20	5	25	5	0	5	25	Nov
15/12/2026	PF/FW	WTO's Role in Safeguarding Farmer Knowledge	1	20	5	25	5	0	5	25	Dec

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		
Goat	Sheep and Goat Rearing	Commercial Goat Farming	5	19	1	25	4	1	5	25	Jan
Dairy Animal	Dairy Management	Commercial Dairy farming	5	20	5	25	5	0	5	25	May
Small scale processing	Small scale processing	Techniques for Small-Scale Agro-Processing for Local Markets	3	20	5	25	5	0	5	25	May
Rice	Seed production	Seed Production techniques on Rice	2	20	5	25	5	0	5	25	July
Kharif crops	INM	Integrated Nutrient Management in Kharif crops	5	20	5	25	5	0	5	25	July
Natural farming	Natural farming	Natural farming	2	20	5	25	5	0	5	25	July-Aug
Farm machineries	Repair & maintenance of farm implements & machineries	Selection, operation, care and maintenance of sowing/planting implements	2	20	5	25	5	0	5	25	Sept
Protected Cultivation	Protected Cultivation	Protected Cultivation of precision crop management	**3**	20	5	25	5	0	5	25	Sept
Poultry farming	Poultry management	Commercial Poultry farming	5	20	5	25	5	0	5	25	Sept
Wheat, Lentil. Gram and Mustard	Seed production	Seed Production techniques on Wheat, Lentil, Gram and Mustard	2	20	5	25	5	0	5	25	Nov
Wheat	Crop residue management	Crop residue management	5	20	5	25	5	0	5	25	Nov
Farm machineries	Repair & maintenance of farm implements & machineries	Operation, repair, maintenance and Calibration of ZT Machine	2	20	5	25	5	0	5	25	Nov
IFS	Integrated farming system	Commercial of IFS units for value addition	5	20	5	25	5	0	5	25	Dec

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total	
				M	F	T	M	F	T		
On Campus											
25/5/2026	EF	Crop Diversification and Soil Fertility Conservation	1	20	5	25	5	0	5	25	May
02/07/2026	EF	Control of Infertility in dairy cattle	1	20	5	25	5	0	5	25	July
5/09/2026	EF	Natural farming	1	20	5	25	5	0	5	25	Sept
5/10/2026	EF	Recent advances technology in Weed management of Rabi crop	1	20	5	25	5	0	5	25	Oct
16/10/2026	EF	Care, maintenance and calibration of wheat sowing implements	1	20	5	25	5	0	5	25	Oct
17/10/2026	EF	Pest & disease management in Rabi crops	1	20	5	25	5	0	5	25	February
2/12/2026	EF	Latest trends of Layer poultry management	1	20	5	25	5	0	5	25	Dec

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											
Crop Production	BAMETI Patna	PF	RPL on Seed Production and IFS	2	30	10	40	15	5	20	60
			Total								
b) Sponsored research programme											
Millets	Government of Bihar	-	MLT on Millets								
			Total								
c) Any special programmes											
Diploma	MANAGE, Hyderebad	RY	DAESI	1	30	02	32	6	02	8	40
			Total		**60**	**12**	**72**	**21**	**07**	**28**	**100**

Signature of Senior Scientist & Head
KVK, Jehanabad