

**PROFORMA FOR ANNUAL REPORT 2024 (01<sup>st</sup> January- 31<sup>st</sup> December 2024)**

**1. GENERAL INFORMATION ABOUT THE KVK**

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

Name and address of KVK	Telephone		E-Mail
	Office	FAX	
Dr. Muneshwar Prasad, Sr. Scientist and Head Krishi Vigyan Kendra, Gandhar, Jehanabad (Bihar), PIN-804432	8102372649	-	<b>jehanabadkvk@gmail.com</b>

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

Name and address of Host Organization	Telephone		E mail
	Office	FAX	
Bihar Agricultural University, Sabour, Bhagalpur, PIN –813210	0641-2452614	0641-2452614	deebausabour@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Muneshwar Prasad	-	8102372649	<b>jehanabadkvk@gmail.com</b>

1.4. Year of sanction of KVK with council order No. and date: 2006 [Sanction Order  
F. No. 18027/960AE0I (Pt.) Date of Sanction 24.03.2006, Year of Inception - 2006

1.5. Year of start of KVK: 2007

1.5. Staff Position (as on 31<sup>st</sup> December 2024)

Sl. No.	Sanctioned post	Name of the Incumbent	Designation	Discipline	Pay Scale with Present Basic	Date of joining	Permanent/probation	Category (SC/ST/OBC/Others)
1.	Senior Scientist& Head	Dr. Muneshwar Prasad	Sr. Scientist & Head	Horticulture	Level 13A, Basic- 152300	20.07.2019	Permanent	SC
2.	Subject Matter Specialist	Er. Jeetendra Kumar	Subject Matter Specialist	Agriculture Engineering	Level 11, Basic- 101200	12.11.2007	Permanent	BC
3.	Subject Matter Specialist	Dr. Dinesh Mahto	Subject Matter Specialist	Animal Science	Level 10, Basic- 77700	16.04.2012	Permanent	Gen
4.	Subject Matter Specialist	Dr. Wajid Hasan	Subject Matter Specialist	Entomology	Level 10, Basic- 77700	16.04.2012	Permanent	Gen
5.	Subject Matter Specialist	Dr. Manoj Kumar	Subject Matter Specialist	Agronomy	Level 11, Basic- 104200	11.06.2009	Permanent	Gen.
6.	Subject Matter Specialist	Ms. Varsha Kumari	Subject Matter Specialist	Soil Science	Level 10, Basic-56100		Probation	EBC
7.	Subject Matter Specialist	Vacant	-	-	-	-	-	-
8.	Programme Assistant	Vacant	-	-	-	-	-	-
9.	Computer Programmer	Manoj Kumar	Programme Assistant (Comp.)	-	Level 6, Basic- 49000	13.05.2013	Permanent	Gen
10.	Farm Manager	Vacant	-	-		-	-	-
11.	Accountant / Superintendent	Sri Ganpati Chaudhary	Assistant	-	Level 6, Basic- 49000	16.04.2013	Permanent	Gen
12.	Stenographer	Abhay Kumar	Stenographer	-	Level 4, Basic- 45400	17.07.2013	Permanent	Gen
13.	Driver	Ayush Kumar	Driver		Level 3, Basic- 26800	11.05.15	Permanent	SC
14.	Driver	Vijay Kumar	Driver	-	Level 3, Basic- 29300	18.05.15	Permanent	EBC
15.	Supporting staff	Vacant	-	-	-	-	-	-
16.	Supporting staff	Vacant	-	-	-	-	-	-

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

S. No.	Item	Area (ha)	Name of infrastructure
1.	Under Buildings	1.490	Office, Training Hall, Kishan Hostel, Staff Quarter
2.	Under Demonstration Units	0.350	Research Unit, Seed Production, Vermicompost Unit, Goatery Unit
3.	Under Crops	5.500	Seed Production Farm
4.	Orchard/Agro-forestry	0.310	HDP Mango Orchard
5.	Pond	0.840	Irrigation Pond
6.	Polyhouse	0.030	Seedling Production
7.	Green House	0.008	Plant Propagation House
8.	IFS	0.001	Dairy Unit
9.	Under Roads	1.470	Road, Canal

*\*Total area should be matched with breakup*

## 1.7. Infrastructure Development:

## A) Buildings and others

Sl. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					Yes	500	Under use	ICAR
2.	Farmers Hostel					Yes	300	Yes	ICAR
3.	Staff Quarters (6)					-	315	Under use	ICAR
4.	Piggery unit								
5.	Fencing					50% Comp.	2650 rft	Damage	ICAR
6.	Rain Water harvesting structure					-	-	-	-
7.	Threshing floor						40	Yes	ICAR
8.	Farm godown					Yes	70	Yes	ICAR
9.	Dairy unit					Yes	29.9	Yes	ICAR
10.	Poultry unit						7.16		
11.	Goatry unit						14.23	Yes	
12.	Mushroom Lab	Yes					60.04	Yes	
13.	Mushroom production unit					Yes	60.12	Yes	ICAR
14.	Shade house					Yes	55.0	Yes	ICAR
15.	Soil test Lab							Not functional	

16	Others, (Seed Processing Unit)					10	Not functional	RAU
17	Veg. Processing Unit					50 m <sup>2</sup>	Not functional	ICAR

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

#### B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Motor bike, BR01CR 8038	2015-16	60000	20101	Functional
Motor bike, BR01CR 8039	2015-16	60000	19707	Functional
Bolero BR 25 P 8971	2018-19	674299	108108	Functional

#### C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
<b>a. Lab equipment</b>				
P.P Cap Sealing Machine	2015-16	10000	Working	ICAR
Crown corcking machine	2015-16	7000	Working	ICAR
Lug Cap sealer	2015-16	12000	Working	ICAR
Heavy Duty Mixture Grinder	2015-16	12000	Working	ICAR
Pulper	2015-16	30000	Working	ICAR
Fruit mill junior	2015-16	12000	Working	ICAR
Dehydrator Electrical	2015-16	70000	Working	ICAR
Vacuum Filer	2015-16	33000	Working	ICAR
Vegetable Juicer	2015-16	32000	Working	ICAR
Mridaprikshak Soil test lab.	2015-16	75000	Not working	NICRA
<b>b. Farm machinery</b>				
Tractor	22-07-08		Not working	Received from DEE, RAU Pusa
Mobile Seed Processing machine		-		Received from Bihar Govt.
Power Reaper	2013-14	100000	Working	ICAR
Power Reaper	2011-12	86700	Working	NICRA
<b>c. AV Aids</b>				
LCD Projector & Accessories	2010-11	47736.00	Not working	ICAR
Multimedia Projector	2010-11	33750.00	Not working	ICAR
Digital Copier	2010-11	63898.00	Need Repair	ICAR
Stabilizer	2010-11	7800.00	Not working	ICAR
Desktop Computer with monitor (NICRA)	2010-11	43434.00	working	ICAR
HP Laser Printer (NICRA)	2010-11	5938.00	working	ICAR
UPS System (NICRA)	2010-11	2000.00	working	ICAR
P/A System	2010-11	25451.00	Not working	ICAR

MPT Camera	2015-16		Not working	ICAR
MIC	2015-16		working	ICAR
Panasonic 47 LED	2015-16	69565.00	working	ICAR
Dell Monitor	2015-16	62839.00	working	ICAR
CPU	2015-16		working	ICAR
UPS 5KVA Orian	2015-16		working	ICAR
Polycom	2015-16		Not working	RKVY
Video conferencing unit	2015-16	-	Working	Provided by BAU, Sabour
Computer System (Monitor, CPU, UPS, Laptop)	2015-16	82583	Working	Provided by BAU, Sabour
CCTV Camera & DVR	2015-16	21000	Working	Provided by BAU, Sabour
Sound System	2015-16	30165	Working	Provided by BAU, Sabour
Video Camera (Sony)	2015-16	82871	Not Working	Provided by BAU, Sabour
Projector with Tripod Projector Screen (Sony)	2015-16	52000	Working	Provided by BAU, Sabour
Xerox Photo Copier cum printer	2016-17	57142.86	Not working	Provided by BAU, Sabour
Xerox Drum Cartridge	2016-17	20296.19	Working	Provided by BAU, Sabour
Xerox Toner Cartridge	2016-17	6308.58	Working	Provided by BAU, Sabour
LED TV 32" (Panasonic)	2016-17	27200	Working	Provided by BAU, Sabour
Still Photographic camera (Canon)	2016-17	29600	Working	Provided by BAU, Sabour

#### D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Zerotill seed cum ferti. Drill	2011-12	57750	Not Working	NICRA
Rotavator	2011-12	99750	Not Working	NICRA
M.B Plough	2011-12	20160	Not Working	NICRA
Disc Harrow	2011-12	38325	Not Working	NICRA
Leveller	2011-12	13125	Not Working	NICRA
Cultivator	2011-12	25725	Working	RKVY
Multicrop thresher	2011-12		Working	RKVY
Conoweeder	2011-12	1850	Working	ICAR
Winnower	2011-12	2850	Working	ICAR
M.B Plough	2006-07		Working	Received from DEE, RAU Pusa
Disc Harrow	2006-07		Working	
Leveller	2006-07		Working	
Brush cutter	2015-16	28300	Not Working	ICAR
Paddy transplanter	2016-17	190000	Working	NICRA
Raised bed planter	2016-17	70000	Working	NICRA
Direct seeded rice machine	2016-17	65000	Working	NICRA
Bund Farma Disc model	2016-17	18780	Working	NICRA
Portable water lifting set	2018-19	20500	Working	NICRA

**E) Farm implements under Climate Resilient Agriculture Project (CRAP), Govt. of Bihar.**

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Green Seeker	2022	-	Working	CRA
Tractor Mounted Sprayer	2022	193520	Working	CRA
Zero till Drill	2021	129000	Working	CRA
Harvester	2021	2759532	Working	CRA
Trolley	2021	151864	Working	CRA
Reaper (Self)	2021	124803	Working	CRA
Weeder & Ridger	2021	50410	Working	CRA
Laser Land leveler	2021	272321	Working	CRA
Raised Bed planter	2021	88392	Working	CRA
Agrimax Rice Wheat Seeder	2021	20000	Working	CRA
Thresher	2021	156000	Working	CRA
Tractor	2021	941756	Working	CRA
Multicrop Planter	2021	88019	Working	CRA
Happy Seeder	2020		Working	CRA

**2. Priority thrust areas of KVKs**

Sl. No	Thrust area
1.	Quality seed production
2.	Crop diversification.
3.	Probiotics/ prebiotics for enhancing nutrient utilization
4.	Improvement of reproductive efficiency
5.	Integrated Pest Management.
6.	Integrated Nutrient Management
7.	Integrated Weed management
8.	Promotion of agri-enterprises i.e. Beekeeping, Vermi Compost Production, Plant Health Clinic and Mushroom Production
9.	Promotion of Resource conservation Technologies.
10.	Promotion of use of Bio-fertilizers in crop, popularization of organic and Natural farming
11.	Skill upgradation in agricultural and allied enterprises for income generation.
12.	Nutritional Management in Livestock
13.	Disease management in Livestock
14.	Water management in crops
15.	Climate Resilient Agriculture

16	Poultry management and Dairy management
17	Enhance agricultural mechanization

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

Sl.No.	Items	Information
1	Major Farming system/enterprise	Paddy – Wheat, Paddy- Wheat- Moong, Paddy- Lentil, Paddy- Chickpea, Fellow- Lentil- Fellow, Paddy- Mustard, Paddy- Potato- Moong
2	Agro-climatic Zone	Zone – III B: The area is alluvial plains with general slope towards North to East. The soils of the zones are classified as old alluvial. The agro climatic condition of the district offers excellent scope for plantation, medicinal and horticultural crops.
3	Agro ecological situation	Humid-hot climate: Rich in both ground and surface water resources and thus it is suitable for agriculture and fishery development
4	Soil type	Old alluvial-Clay: Hard in texture and low in organic matter contents Old alluvial – Loamy: Comparatively brittle and high in organic matter contents
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Rice- 48.0 Qt./ha, Wheat-38.0 Qt./ha, Chickpea-18.50 Qt./ha, Lentil-13.0 Qt./ha, Oilseeds (Mustard)-13.0 Qt./ha, Maize-67.0 (Rabi), 52.0 (Kharif), 47.0 (Summer) Qt./ha
6	Mean yearly temperature, rainfall, humidity of the district	Mean temp. max-32.84 <sup>0</sup> , min-15.62 <sup>0</sup> , Humidity Max-99% , Humidity Min=26.66%, Annual rainfall=1051mm
7	Production of major livestock products like milk, egg, meat etc.	Cattle average milk productivity- 9000 L/ day Population: Poultry (Desi)- 34.71 lakh, Improved poultry- 9.62 lakh, duck- 0.052 lakh, Swine- 0.17 lakh, goat- 0.73 lakh, cow- 0.94 lakh, buffalo- 1.25 lakh (Census-2019)

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

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1.	Jehanabad	Ghosi	Sahpur	Paddy, wheat, pulses	False smut, stem borer in paddy, Drought in kharif, infertility & repeat breeding in cattle, mineral deficiency in cattle	Dairy, Poultry & Goatry management, Integrated pest and disease management, Nutritional management, farm implement
2.		Ghosi	Korma	Paddy, wheat, pulses, vegetable, oilseed	Water and weed management, insect-pest management in different crops, infertility & repeat breeding in cattle, mineral deficiency in cattle	Dairy, Poultry & Goatry management, Water and weed management, Varietal evaluation, Farm implement

3.		Modanganj	Rampur charui	Paddy, wheat, pulses, oilseed, livestock	False smut, stem borer, gandhi bug in paddy, Pod borer and wilt disease in pulses, infertility & repeat breeding in cattle, mineral deficiency in cattle	Integrated pest and disease management, Improved implement Dairy, Poultry & Goatry management
4.		Kako	Safepur, Keshopur Khalispur	Paddy, wheat, vegetable	False smut, stem borer, gandhi bug in paddy, Pod borer and wilt disease in pulses, infertility & repeat breeding in cattle, mineral deficiency in cattle	Integrated pest and disease management, Dairy, Poultry & Goatry management, improved implement, Fodder grass
5.		Kako	Deoghara	Paddy, wheat, pulses, flower	False smut, stem borer, gandhi bug in paddy, Pod borer and wilt disease in pulses, infertility & repeat breeding in cattle, mineral deficiency in cattle	Integrated pest and disease management, Dairy, Poultry & Goatry management, Weed management
6.		Ghosi	Sahobigha	Paddy, wheat, pulses, oilseed	Supplement of mineral mineral mixture & fodder seed, infertility & repeat breeding in cattle, PPR in goat, contagious disease of poultry, Nutritional deficiency in cattle, improved poultry breed, goat breed distribution, Onion thrips, heat stress in Buffaloes	Integrated pest and disease management Weed management, water management, Dairy, Goatry, poultry, Dairy, Poultry & Goatry management
7.		Ghosi	Godsar, Barasarai	Paddy, wheat, pulses, oilseed, livestock	Natural Resource Management, Water management, False smut, stem borer, gandhi bug in paddy, pink borer and termite in wheat, mineral deficiency in cattle, infertility & repeat breeding in cattle, PPR in goat, contagious disease of poultry, Nutritional deficiency in cattle, improved poultry breed, goat breed distribution, Onion thrips, heat stress in Buffaloes	Water conservation, Integrated pest and disease management, livestock management, Farm implement, Dairy
8		Ghosi	Chhapanna	Paddy, wheat, pulses, oilseed	False smut, stem borer, gandhi bug in paddy, Pod borer and wilt disease in pulses, infertility & repeat breeding in cattle , mineral deficiency in cattle	Improved farm implement for resource conservation, Dairy, Poultry & Goatry management, Integrated pest and disease management
9.		Modanganj	Waina	Paddy, wheat, pulses, oilseed	False smut, stem borer, gandhi bug in paddy, Pod borer and wilt disease in pulses, infertility & repeat breeding in cattle , mineral deficiency in cattle	Improved farm implement for resource conservation Livestock management, Integrated pest and disease management

10		Modanganj	Gandhar	Paddy, wheat, pulses, oilseed	False smut, stem borer, gandhi bug in paddy, Pod borer and wilt disease in pulses, infertility & repeat breeding in cattle, mineral deficiency in cattle	Integrated pest and disease management, Dairy, Poultry & Goatry management
11		Kako	Bhelawar	Paddy, wheat, pulses, oilseed, livestock	PPR disease in goats, gumboro disease in Poultry bird, mineral deficiency in cattle	Integrated pest and disease management, Dairy, Poultry & Goats management
12		Kako	Nonhi	Paddy, wheat, pulses, oilseed	False smut, stem borer, gandhi bug in paddy, Pod borer and wilt disease in pulses, Heat stress in cattle	Dairy disease management, Integrated pest and disease management
13		Modanganj	Mustafapur	Paddy, wheat, pulses, oilseed	False smut, stem borer, gandhi bug in paddy, Pod borer and wilt disease in pulses, Heat stress in cattle, mineral deficiency in cattle	Integrated pest and disease management, Dairy, Poultry & Goatry management
14		Modanganj	Mananpur	Paddy, wheat, pulses	False smut, stem borer, gandhi bug in paddy, Pod borer and wilt disease in pulses, Heat stress in cattle, mineral deficiency in cattle	Integrated pest and disease management, Pulse, oilseed cultivation,
15		Hulasganj	Sarma	Paddy, wheat, pulses, oilseed	False smut, stem borer, gandhi bug in paddy, Pod borer in pulse, Heat stress and infertility in cattle, Mortality in Fish	Integrated pest and disease management, Dairy & Fishery management

2. c. Details of village adoption programme during 2024:

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

<b>Name of village</b>	<b>Block</b>	<b>Action taken for development</b>
Amarpura	Modanganj	OFT on Sheath blight in paddy, on farm trial on assessment of cut off ratio in wheat irrigation, Integrated management of Gram Pod Borer
Bandhuganj	Modanganj	On farm trial on assessment of cut off ratio in wheat irrigation, FLD in Poultry and Duck, Vaccination of Goat and OFT in Goat
Jaikishunbigha	Modanganj	Vermicompost production
Mahmadpur	Kako	On farm trial on Anesetrus crossed bred Cow, FLD on Fodder grass, vermicompost production
Milkypar	Modanganj	Vaccination of Goat, OFT in Goat
Sikariya	Jehanabad	On farm trial on Anesetrus crossed bred Cow, FLD on Fodder grass, vaccination in Goat and OFT in Goat
Afzalpur	Kako	On farm trial on assessment of cut off ratio in wheat irrigation
Dayalibigha	Modanganj	FLD on use of fertilizer broadcaster in paddy, vermicompost production, OFT in Anesetrus crossed bred Cow, CFLD on Oiseed
Nauserachak	Ghosi	FLD on use of fertilizer broadcaster in paddy, Use of Agri- Drone for Nano urea application
Gandhar	Modanganj	FLD on Fodder crop (Oat), Demonstration on Bio fortified wheat & improved breed of poultry chicks under Schedule Cast Sub Plan, CFLD oilseeds, OFT on Assessment of different methods on productivity of Tomato in medium land
Maulabigha	Modanganj	Improved breed of poultry chicks and Duck, vaccination of Goat, FLD on Veg. pea, Wheat, Chickpea and vegetable

		seedling
Godsur	Ghosi	Improved breed of poultry chicks and Duck, vaccination of Goat, FLD on Veg. pea, Wheat, Chickpea and vegetable seedling and FLD on Use of BGA in Paddy cultivation
Korma	Ghosi	Improved breed of poultry chicks and Duck, vaccination of Goat, FLD on Veg. pea, Wheat, Chickpea and vegetable seedling
Mustafapur	Modanganj	Integrated management of Gram Pod Borer , On farm trial on Anesetrus crossed breed Cow, FLD on Fodder grass, FLD on fodder crop (Oat) & improved breed of poultry chicks, OFT on assessment of efficacy of Nano DAP on crop growth grain yield in Paddy, OFT on assessment of efficacy of Nano DAP and Bio-fertilizers on crop growth and grain yield in Chickpea
Katrasin	Makhdumpur	On farm trial on assessment of different method of irrigation on productivity of tomato in medium land
Heridih	Makhdumpur	FLD on Fodder grass
Kurthadih	Makhdumpur	Climate Resilient Agriculture
Mirabigha	Makhdumpur	Climate Resilient Agriculture
Mersua	Makhdumpur	Climate Resilient Agriculture
Daharpur	Ghosi	Climate Resilient Agriculture
Karhara	Modanganj	Climate Resilient Agriculture, CFLD on Oilseed
Serthua	Hulasganj	OFT on Anesetrus in cross breed Cow, vermicompost production
Sahpur	Ghosi	CFLD in Oilseed
Atiyawan	Ghosi	CFLD in oilseed
Modanganj	Modanganj	OFT on Anesetrus in cross breed Cow
Kakariya	Jehanabad	FLD on Improved breed of poultry chicks
Sahobigha	Ghosi	On farm trial on Anesetrus crossed bred Cow , fodder crop (Oat), Vermicompost production
Sakrorha	Modanganj	On farm trial on Anesetrus crossed bred Cow, FLD on fodder crop (Oat), Vermicompost production, Animal Health camp
Devghara	Kako	CFLD on pulse
Keshopur	Kako	OFT on management of Nematode in okra, Monitoring of Kisan club, exposure visit, IPM in vegetable, Kitchen Gardening, NARI
Noorpur	Modanganj	CFLD on Oilseed, FLD in Poultry and Duck
Rampur charui	Modanganj	Monitoring of Kisan club, Vaccination programme, CFLD on Oilseed, On farm trial on Anesetrus crossed breed Cow and vermicompost production (SAP)
Safepur	Kako	Monitoring of Kisan club, OFT on Sheath blight in paddy, NARI, conducting Bee keeping, Kisan club, Swachha Bharat Mission programme
Baramsarai	Ghosi	FLD on Fodder grass, FLD on fodder crop (Oat) and improved breed of poultry chicks and Duck, NARI
Waina	Modanganj	Climate Resilient Agriculture Programme
Ranipur	Kako	Animal Health Camp, FLD in Poultry, vaccination of Goat and Cattle, FLD on Fodder Grass
Chhapanna	Ghosi	Climate Resilient Agriculture Programme
Pariyama	Modanganj	On farm trial on Anesetrus crossed bred Cow, Climate Resilient Agriculture Programme

Mananpur	Modanganj	Integrated management of Gram Pod Borer, OFT on management of Nematode in okra, FLD on fodder crop (Oat) & improved breed of poultry chicks
Murgaon	Hulasganj	On farm trial on Anesetrus crossed bred Cow, Vermicompost production (SAP), FLD on Fodder crop
Katauli	Hulasganj	CFLD on Oilseed, FLD on Fodder crop
Gangapur	Hulasganj	CFLD on Oilseed, FLD on Fodder crop

### 3. TECHNICAL ACHIEVEMENTS

#### 3.1. Summary details of target and achievement of mandatory activities by KVK during the year 2024

OFT												FLD											
No. of technologies tested:												No. of technologies demonstrated:											
Number of OFTs		Number of farmers										Number of FLDs		Number of farmers									
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement								
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
10	15	93	32	20	0	0	86	4	118	24	142	15	19	500	115	102	0	0	273	82	388	184	572

Training												Extension activities											
Number of Courses		Number of Participants										Number of activities		Number of participants									
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement								
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
108	307	2500	17	21	0	0	48	18	66	42	10	25	28	5000	63	60	0	0	847	370	10	25	134
			11	03			89	37	35	30	52	9			5	0			2	8	84	75	15

Impact of capacity building											Impact of Extension activities										
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								
Target	Achievement	SC		ST		Others		Total			Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T
108	307	145	64	0	0	134	48	279	112	391			45	28	0	0	53	7	98	35	133

Seed production (q)		Planting material (in Lakh)			
Target (Crop and variety)	Achievement (q)	Sold (q)	Target (crop and variety)	Achievement	Sold (number)
Paddy (R. Sweta)	156.36	156.36	0.15	0.15	0.15
Wheat (HD-2967)	115.65	115.65			
Potato var. Bari Aloo, Yusi Maap(Rabi- 2023-24)	31.5	31.5			
Wheat (DBW-187) (Rabi 2024-25)	Standing				

Livestock strains (in no's) and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
-	-	-	-

\* Give no. only in case of fish fingerlings

### 3.2 ACHIEVEMENTS ON TECHNOLOGIES ASSESSED AND REFINED (OFT)

#### 3.2.1 Technology Assessed by KVK (Discipline wise)

A	Technologies assessed under various crops (Cereal Crop Production)			
	Thematic areas	Number of the technologies (Technology Interventions)	No. of trials	No. of Locations
1	Integrated Nutrient Management	6	27	27
2	Varietal Evaluation			
3	Integrated Pest Management	4	16	16
4	Integrated Crop Management			
5	Integrated Disease Management			
6	Small Scale Income Generation Enterprises			
7	Weed Management			
8	Resource Conservation Technology			
9	Farm Machineries			
10	Integrated Farming System			
11	Seed / Plant production			
12	Post Harvest Technology / Value addition			

13	Drudgery Reduction			
14	Storage Technique			
15	Others (Pl. specify) Water conservation	6	24	24
16	Cropping Systems			
17	Farm Mechanization			
18	Others Micro irrigation system	2	7	7
19	Natural Resource management	4	20	20
	<b>Total</b>	<b>22</b>	<b>94</b>	<b>94</b>
B	<b>Technologies assessed under various crops (Hort crops. )</b>			
	<b>Thematic areas</b>	<b>Number of the technologies (Technology Interventions)</b>	<b>No. of trials</b>	<b>No. of Locations</b>
1	Integrated Nutrient Management			
2	Varietal Evaluation			
3	Integrated Pest Management			
4	Integrated Crop Management			
5	Integrated Disease Management			
6	Small Scale Income Generation Enterprises			
7	Weed Management			
8	Resource Conservation Technology			
9	Post-harvest Technology / Value addition			
10	Others if any specify			
C	<b>Technologies assessed under livestock &amp; Fisheries by KVKs</b>			
	<b>Thematic areas</b>	<b>No. of technologies (Technology Interventions)</b>	<b>No. of trials</b>	<b>No. of locations</b>
1	Disease & Health Management	7	30	30
2	Breeding management/Evaluation of Breeds			
3	Feed and Fodder management			
4	Nutrition Management	4	10	10
5	Production and Management			
6	Processing and Value addition			
7	Fisheries management			

8	Others (waste, ITK etc)			
	<b>Total</b>	<b>11</b>	<b>40</b>	<b>40</b>
<b>D</b>	<b>Technologies assessed under miscellaneous enterprises by KVKs</b>			
	<b>Thematic areas</b>	<b>No. of technologies (Technology Interventions)</b>	<b>No. of trials</b>	<b>No. of locations</b>
1	Drudgery reduction			
2	Entrepreneurship Development			
3	Health and nutrition			
4	Processing and value addition			
5	Energy conservation			
6	Small-scale income generation			
7	Storage techniques			
8	Household food security			
9	Organic farming			
10	Agroforestry management			
11	Mechanization			
12	Resource conservation technology			
13	Value Addition			
14	Others			
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>E</b>	<b>Technologies assessed under various enterprises for women empowerment</b>			
	<b>Thematic areas</b>	<b>No. of technologies (Technology Interventions)</b>	<b>No. of trials</b>	<b>No. of locations</b>
1	Drudgery Reduction			
2	Entrepreneurship Development			
3	Health and Nutrition			
4	Value Addition			
5	Others			
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>

### 3.2.2 OFT (All discipline)

#### OFT 1: Agronomy

1	Title of on farm Trial	Improvement of Nitrogen use efficiency in wheat
2	Problem diagnosed	Excessive use of chemical fertilizer and Spiraling price of urea leads to increase in cost of cultivation
3	Details of technologies selected for assessment/refinement	Farmer Practice: RDF (100:40:20)Kg/ha TO1:50% of RDN &100 % PK+Nano urea @ 4ml/lt.water (Single spray at 35 DAS). TO2: 50% of RDN & 100% PK + 2 sprays of Nano Urea at (35 DAS) and (60-65DAS) @ 4 ml/lt water. Under Rice-Wheat croppings system.
4	Source of Technology	BAU Sabour, BAU, Sabour
5	Replication	10
6	Production system and thematic area	Rice-Wheat, Nutrient Management
7	Observation to be recorded	Yield data, No. of effective tillers/m <sup>2</sup> ,1000 grain wt., Panicle wt.,Straw yield and Economics.

Soil data of soil sample tested: pH: 7.2, EC: 0.54 mm mhos/cm, OC: 0.56%, N: 377.3, P: 20.3, K: 198.3 kg/ha

**Table: Yield, yield attributing characters and economics as influenced by Nitrogen use efficiency in Wheat cv HD 2967**

Technology option	No. of trials	Yield component			1000 grain wt. (g) Test wt.	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Plant height at harvest (cm)	Effective tillers/ m sq.	No. of grains/ spike						
Farmer Practice: RDF(100:40:20)Kg/ha	8	72.8	382	28	35.5	30.6	39550	87440	47890	2.21
TO-1:50% of RDN &100 % PK+Nano urea @ 4ml/lt.water (Single spray at 35 DAS).	8	77.6	418	34	38.6	33.0	40550	97200	56650	2.39
TO-2: 50% of RDN & 100% PK + 2 sprays of Nano Urea at (35 DAS) and (60-65DAS) @ 4 ml/lt water. Under Rice-Wheat croppings system.	8	82.2	436	37	40.8	35.2	41658	102480	41550	2.46

**Result:** On the basis of conducted OFT topic entitled Improvement of Nitrogen use efficiency in wheat during the Rabi season 2023-24, the best treatment recommended are TO2 which yielded 35.2 q/ha which was significantly superior over farmer practice i.e. 30.6 q/ha, so on the basis of above presented data in the table it would be recommended the best treatment details was TO2



### OFT 2: Agronomy

1	Title of On farm Trial	Integration of fertilizer in different form on yield of Lentil
2	Problem diagnosed	Injudicious use of chemical fertilizer
3	Details of technologies selected for assessment/refinement	Farmer Practice: Seed Treatment + RDF(15:45:0, N:P:K) TO1:50% of RDF +WS 18:18:18 @5 gm./ltr water (Single spray at pre-flowering stage) TO2: Seed treatment with PSB + Rhizobium, 50% of RDF + WS 18:18:18 @5 gm. /ltr water (Single spray at pre flowering stage)
4	Source of Technology	BAU, Sabour
5	Replication	9
6	Production system and thematic area	Rice-Lentil-Fallow Nutrient Management
7	Observation to be recorded	Growth parameter, yield attributing characters, Grain Yield and Economics

Soil data of soil sample tested: pH: 6.7, Ec: 0.50 mm mhos/cm , OC: 0.51%, N:347.5 kg/ha, P:20.1 kg/ ha, K: 222.4 kg/ha

Table: Growth parameter, Yield attributing characters, Yield and economics are affected by integration of fertilizers in different form on yield of Lentil

Technology option	No. of trials	Yield component			1000 seed weight (g)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Plant height at harvest (cm)	No. of pods per plant	No. of branches/plant						
Farmers Practice: seed treatment + RDF	9	31.6	34	5	13.9	10.4	27960	62700	34740	2.24
TO1: 50% of RDF + WS (Water soluble fertilizers i.e 18:18;18 @ 5gm/water (single spray at pre flowering stage)		34.3	37	6	15.5	11.6	27960	70000	42040	2.50
TO2: Seed treatment with PSB+ R.culture, 50% of RDF + WS (Water soluble fertilizers i.e 18:18;18 @ 5gm/water (single spray at pre flowering stage)		35.0	40	7	16.5	12.7	28900	77650	48750	2.68

Result: Data presented in the table revealed that maximum yield attributing characters, yield and economics was recorded in the TO-2 in the tune of 12.7 q/ha whereas in the minimum yield was recorded in the farmer practice i.e. 10.4 q/ha, so on the basis of above data presented in the table, the best treatment result was TO-2 i.e. seed treatment with PSB + Rhizobium culture, 50% RDF+WS- seed treatment with PSB + Rhizobium culture,18:18:18 @ 5 g/L water single spray at pre flowering stage.



### OFT 3: Agronomy

1	Crop	Mustard
2	Season	Rabi 2024-25
3	Area of Mustard in Jehanabad district	1837 ha
4	District yield	13.0 q/ha
	State yield	13.73 q/ha
5	Problem diagnosed	Low yield of Mustard
6	Main cause	Inbalalced use of chemical fertilizer and no use of Sulphur in soil as nutrient
7	Title of On farm Trial	Assesment of Efficacy of sulphur on Mustard
8	Farming situation	Soil type- Clay loam soil Land type- Medium land Irrigation type- Borewell Previous crop- Rice
9	Production system and thematic area	Rice-Mustard-Mustard, Integrated Nutrient Management
10	Details of technologies selected for assessment/refinement	Farmer Practice: NPK 100:40:20 kg /ha TO1: RDF NPK 80:40:40 kg /ha + bentonite sulphur @ 20 kg /ha + seed dressing with azotobactor @ 5 ml per kg seed TO2: RDF NPK 80:40:40 kg /ha + bentonite sulphur @ 20 kg /ha + seed dressing with PSB @ 5 ml per kg seed
11	Source of Technology	DRMR Bhartpur Rajasthan 2021
12	Replication	8
13	Observation to be recorded	Grain Yield, Growth parameter and yield attributing character, Economics

**Result: Standing**

### OFT 4: Entomology

- **Thematic area:** Integrated Pest Management
- **Problem definition/Name of OFT:** Management of nematode in Okra

1.	Title of On Farm Trial	<b>Management of nematode in Okra</b>
2.	Problem diagnoses	Nematode cause yield loss in okra. Due to damage symptom underground soil very difficult to manage by farmers once infestation occurred

3.	Details of technologies selected for assessment/refinement	Farmer Practices: Chlorpyrifos spray @ 3 ml/ lt. TO1: • Soil solarization with polythene (40 $\mu$ m) white sheet for two weeks • Soil Treatment: Pseudomonas fluorescens @ 20 gm/m <sup>2</sup> + Trichoderma viride @ 50 g/m <sup>2</sup> • Seed Treatment: Pseudomonas fluorescens @ 10 gm/kg + Trichoderma viride @ 10 g/kg TO2: Carbafulan 3G @ 3.6 gm/m <sup>2</sup>
4.	Source of Technology	Bihar Agricultural University, Sabour, Bihar
5.	Production system and thematic area	Rice-Potato-Okra Integrated Pest Management
6.	Performance of the Technology with performance indicators	The infestation of nematode pest complex is reduced and increase yield marginally.
7.	Final recommendation for micro level situation	For management of nematode pest complex in okra the both (TO1 and TO 2) is recommended.
8.	Constraints identified and feedback for research	Assessment of another molecules
9.	Process of farmers participation and their reaction	Actively participated with adaptation of the technology

## B. Results:

**Table: Yield and economics as influenced different methods of management of Nematode in Okra**

Technology options with detailed treatments	Area (ha)		60 DAS			Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
	Proposed	Actual	Meloidogyne sp.	Meloidogyne Sp. (Galls per plant)	Others Sp. Before crop					
Farmer Practices	8	8	290	7.5	39	248.25	51000	446850	395850	8.76
TO1:	8	8	100	2.5	12	260.75	53500	469350	415850	8.27
TO2:	8	8	65	2.3	10	261.30	51500	468540	417040	9.10

\*Plant Nematode population count in 200 cc soil

**Result:** Results revealed that the higher yield of okra (261.30 q/ha) and 9.10 BC ratio with mean 65, 2.3 and 10 nematode population of okra were recorded in plots treated with TO2 followed by plots treated TO1, the yield (260.75 q/ha) and 8.27 BC ratio with mean 100,2.5 and 12 nematode population of okra observed. Whereas plots treated with Farmer practices, the yield (248.25 q/ha) and 8.76 BC ratio with mean 290, 7.5 and 39 nematode population of okra were recorded. Therefore, it can be concluded that the treatment TO2 and TO3 treated plots produce marginally higher yields and reduced the infestation of the sucking pest complex in okra. TO2 and TO3 are recommended to manage the nematode pest complex in okra. (Avg. Sell price @ Rs.18/Kg.)



### OFT 5: Entomology

1.	Title of On Farm Trial	<b>Assessment of fungicides for the management of Sheath blight of Rice</b>
2.	Problem diagnoses	Five- to six-week-old leaf sheaths are highly susceptible. Several large lesions on a leaf sheath usually cause death of the whole leaf, and in severe cases, a plant's leaves may be blighted in this way.
3.	Details of technologies selected for assessment/refinement	Farmer practice: Spray of hexaconazole 5 EC @800ml/ha TO1: Spray of Propiconazole 13.9% + Difenconazole 13.9% EC @500ml/ha. TO2: Spray of Thifluzamide 24 SC @ 1ml /liter of water (45 days after transplanting)
4.	Source of Technology	Indian Institute of Rice Research Hyderabad
5.	Production system and thematic area	Rice-Wheat, Integrated Pest Management
6.	Performance of the Technology with performance indicators	The Sheath blight of Rice is reduced and increases yield marginally.
7.	Final recommendation for micro-level situation	For the management of Sheath blight of Rice, both (TO1 and TO 2) are recommended.
8.	Constraints identified and feedback for research	Assessment of other molecules
9.	Process of farmers' participation and their reaction	Actively participated in the adaptation of the technology

### B. Results

**Table: Yield and cost of cultivation as affected by spraying of different fungicides for the management of Sheath blight in Rice**

Technology options with detailed treatments	Area (ha)		R.L.H.	Yield (q/ha)	% Increase	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
	Proposed	Actual							
Farmer Practices	8	20	9.8	40.5	-	42000	88412	46412	2.11
TO1:	8	20	2.8	42.8	5.6	43000	93432	50434	2.17
TO2:	8	20	2.3	43.5	7.4	43000	94961	51961	2.21

**Result:** The results indicated that the highest paddy yield (43.5 q/ha) with a benefit-cost (BC) ratio of 2.21 and an average % Relative Lesion Height (RLH) of 2.3 was recorded in plots treated with Technical Option 01 (TO1). This was followed by plots treated with **Technical Option 02 (TO2)**, which yielded 42.8 q/ha, had a BC ratio of 2.17, and an average RLH of 2.8. In contrast, plots managed under **farmer practices (dense transplanting)** recorded a lower yield of 40.5 q/ha, a BC ratio of 2.11, and a significantly higher RLH of 9.8.

These findings suggest that TO1 and TO2 treatments result in a marginally higher yield and effectively reduce sheath blight infestation in paddy. Therefore, TO1 (Spray of Propiconazole 13.9% + Difenconazole 13.9% EC @500ml/ha) and TO2 (Spray of Thifluzamide 24 SC @ 1ml /liter of water (45 days after transplanting)) are recommended for the effective management of sheath blight in paddy cultivation.



**OFT 6: (Agril. Engg.) Rabi 2023-24**

1.	Title of On farm Trial	Assessment of Cut Off ratio in wheat irrigation
2.	Problem diagnose	Water scarce situation during Rabi season
3.	Details of technologies selected for assessment/refinement	Farmer practice: 100% irrigation TO1: Irrigation at 90% cut off TO2: Irrigation at 80% cut off
4.	Source of Technology	ATARI, Patna
5.	Production system and thematic area	Rice- Wheat, Water Conservation
6.	Performance of the Technology with performance indicators	Stream size (lpm), Strip size (m), Water use (cm), yield (q/ha), water saving (%), water efficiency (kg/ha-cm)
7.	Final recommendation for micro level situation	TO2 (Irrigation at 80 % cutoff) performed best
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Discussion with farmers during Training Programmes Observation during field visits

**B. Results****Table: Effect of different irrigation cutoff ratio in Wheat**

Thematic area	Technology options with detailed treatments	Area (ha in crop & Fodder)/ Nos (in livestock)		Water applied (Cubic meter/ha)	Water saving(Cubic meter/ha)	Yield (q/ha)	Water Use Efficiency (Kg/ha-cm)	Cost of cultivation(Rs./ha)	Gross return (Rs/ha)	Net return(Rs./ha)	BC ratio
		Proposed	Actual								
Water Conservation	FP: 100% irrigation	0.4	0.4	2088.2 (20.88 cm)	-	39.1	187.26	38600	88953.0	50353.0	2.30
Water Conservation	TO1: Irrigation at 90% cut off	0.4	0.4	1926.4 (19.26 cm)	161.8	42.2	219.10	37200	96005.0	58805.0	2.58
Water Conservation	TO2: Irrigation at 80% cut off	0.4	0.4	1814.0 (18.14 cm)	274.2	41.8	230.42	35600	95095.0	59495.0	2.67

**\*No. of Irrigation: 3**



Farmer practice: 100% irrigation



TO1 (Irrigation at 90% cut off)



TO2 (Irrigation at 80 % cutoff)

**Result:** Result depicted that TO2 (Irrigation at 80 % cutoff) performed best in terms of B:C ratio as 2.67 (wheat var. HD 2967 Yield 41.8 q/ha) followed by TO1 (Irrigation at 90% cut off) with yield 42.2 q/ha and B:C ratio 2.58 as compared to 39.1 q/ha yield with B:C ratio 2.30 in Farmers practice.

#### OFT 7: (Agril. Engg.) Rabi 2023-24

1.	Title of On farm Trial	Assessment of different methods of irrigation on productivity of tomato in medium land.
2.	Problem diagnose	Consumption of excess water in furrow/bed method of irrigation in tomato
3.	Details of technologies selected for assessment/refinement	<b>Farmer practice:</b> furrow/ bed irrigation <b>TO1:</b> Drip irrigation with crop residue mulch <b>TO2:</b> Drip irrigation with plastic mulching
4.	Source of Technology	ATARI, Patna
5.	Production system and thematic area	Rice- Oilseed/Pulse –Vegetable and Micro Irrigation System
6.	Performance of the Technology with performance indicators	Water applied (cm), saving of water (%), yield (q/ha), water efficiency (kg/m <sup>3</sup> )
7.	Final recommendation for micro level situation	TO2 (Drip irrigation with plastic mulching) consumed minimum quantity of water and produced maximum tomato yield
8.	Constraints identified and feedback for research	Greater Cost of drip irrigation installation
9.	Process of farmers participation and their reaction	Discussion with farmers during Training Programmes Observation during field visits

**B. Table : Effect of different methods of irrigation on productivity of tomato in medium land.**

Thematic area	Technology options with detailed treatments	Area (ha in crop & Fodder)/ Nos (in livestock)		No. of in Irrigation	Water applied (Cubic meter/ha)	Water saving(Cubic meter/ha)	Yield (q/ha)	Water Use Efficiency (Kg/m <sup>3</sup> )	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Proposed	Actual									
Micro Irrigation System	FP: furrow/ bed irrigation	0.315	0.315	16	7840 (78.4 cm)	-	251	3.2	70600	25100	180400	3.55
Micro Irrigation System	TO 1: Drip irrigation with Crop Residue mulch	0.315	0.315	11	5060 (50.6 cm)	2780	302	5.96	74500	30200	227500	4.05
Micro Irrigation System	<b>TO 2:</b> Drip irrigation with plastic mulching	0.315	0.315	2.58 hr with 2 day interval	2476.8 (24.76 cm)	5363.2	462	18.65	98800	462000	363200	4.67



Farmer practice: furrow/ bed irrigation



TO1 (Drip irrigation with crop residue mulch)



TO2 (Drip irrigation with plastic mulching)

**Result:** OFT result revealed that TO2 (Drip irrigation with plastic mulching) consumed minimum quantity of water (2476.8 cubic meter/ha) and produced maximum tomato (cv. Kashi Aman) yield of 462.0 q/ha with B: C ratio of 4.67 followed by TO1 (Drip irrigation with crop residue mulch) with 302.0 q/ha yield and B: C ratio of 4.05 in comparison to farmers practice plot with yield of 251.0 q/ha and BC ratio 3.55.

**OFT 8: (Agril. Engg.)**

1	Season:	Rabi 2024-25
2	Crop	Wheat
3	Season:	Rabi
4	Problem diagnosed:	Availability of 3 irrigations facility only due to water scarce situation during Rabi season and lower yield
5	Important Cause:	5 Full irrigation is difficult
6	Title of the OFT 1:	Assessment of different irrigation schedules for optimization of water use efficiency and yield of wheat in water scarce condition
7	Farming situation:	Soil Type- Clay loam, Land type-Medium upland, Irrigation type-borewell, Previous crop- Rice
8	Thematic Area:	Water Conservation
9	Farmers Practice (Existing practice)	Wheat cultivation with 3 irrigations at irregular interval
10	Production system:	Rice-Wheat
11	Technology option selected for assessment:	Farmers Practice : Wheat cultivation with 3 irrigations at irregular interval Technology option 1: Wheat cultivation with 2 irrigations at 20-25 DAS, 80-85 DAS Technology option 2: Wheat cultivation with 3 irrigations at 20-25 DAS, 65-70 DAS , 90-100 DAS
12	Hypothesis:	Irrigation at regular interval would maintain maximum yield of wheat in limited availability of water for 3 irrigations
13	Objective(s):	Maximum production per unit water. Proper Scheduling of irrigation for maintaining yield levels and improvement in water use efficiency in limited water availability condition
14	Critical Inputs:	Seed (cost on making ridges/ subsidiary bunds in the field and other cost related to irrigation etc.)
15	Unit Size:	0.125 ha
16	No of Replications:	8
17	Unit Cost:	Rs. 2000
18	Total Cost:	Rs. 16000
19	Monitoring Indicator	Water use , water saving (%), water use efficiency (kg/ha-cm), yield (q/ha) and Economic Indicator: Net return, B: C ratio
20	Source of Technology	BAU, Sabour

**Result: Crop Standing and result awaited**

**OFT 9: (Agril. Engg.)**

1	Season:	Rabi 2024-25
2	Crop	Maize variety bahubali
3	Season:	Rabi
4	Problem diagnosed:	Application of excess irrigation water and lower yield
5	Important Cause:	Excessive application of irrigation water till stagnation for long duration if wild flood irrigation method is used
6	Title of the OFT 2	Assessment of different methods of irrigation for effective water management in maize
7	Farming situation:	Soil Type- Clay loam, Land type- Medium upland, Irrigation type-borewell, Previous crop- Rice
8	Thematic Area:	Water Conservation
9	Existing Practice:	Flood irrigation method (Farmers Practice)
10	Production system	Rice- Wheat/ Maize
11	Technology option selected for assessment:	Farmer practice: Flood irrigation TO1: Fixed furrow Irrigation TO2: Skip furrow Irrigation
12	Hypothesis:	Water application by skip furrow irrigation method will save irrigation water and maintain yield
13	Objective(s)	Irrigation by suitable method for water saving, optimum yield and water use efficiency
14	Critical Inputs:	Seed (cost on making subsidiary bunds for furrow irrigation in the field etc.)
15	Unit Size:	0.125 ha
16	No of Replications:	8
17	Unit Cost:	Rs. 2000
18	Total Cost:	Rs. 16000
19	Monitoring Indicator	Water applied , saving of water (%), water use efficiency (kg/ha-cm), yield (q/ha) and economics
20	Source of Technology	CIAE, Bhopal

**Result: Crop Standing**

**OFT 10: (Soil Sc.)**

Crop	Rice cv. Rajendra Sweta
Season	Kharif
Problem	Low yield of rice
Main cause	Injudicious use of fertilizers
Title of OFT	Assessment of efficacy of nano DAP on crop growth and grain yield
Farming situation	Soil type: Sandy loam Land type: Plain Irrigation type: Tubewell Previous crop: Wheat
Thematic area	Natural Resource Management
Farmer practice	<b>TO1:</b> Farmers Practice - 187.5 : 75 : 37.5 :: NPK (100% P as DAP)
Technology option selected for assessment	<b>TO2:</b> 75% P as DAP + ST/SD with nano DAP + Foliar spray with nano DAP 4 mL/L water at tillering stage <b>TO3:</b> 75% P as DAP + ST/SD with nano DAP + 1 <sup>st</sup> Foliar spray with nano DAP 4 mL/L water at tillering stage and 2 <sup>nd</sup> foliar spray at panicle initiation stage
Seed treatment (ST)	Nano DAP @ 5 mL/kg seed
Seedling dipping (SD)	Nano DAP @ 5 mL/L water
Source of technology	ICAR-RCER, Patna : Annual Report 2021
Total area	1.0 ha
No. of trial	10
Detail of critical input	Nano DAP
Cost of critical input	Rs. 600 / 500 mL
Performance indicator to be recorded	(i) Soil data before and after (pH, EC, OC, NPK,) (ii) Technical indicator (No. of tillers, effective tillers, grains per panicle, yield (Q/ha) (iii) Economic indicator (Cost of cultivation, gross return, net return, B:C ratio) (iv) Farmer perception

Soil parameters	Before sowing	After harvesting
<b>pH</b>	6.8	6.4
<b>EC</b>	0.72	0.82
<b>OC (%)</b>	0.61	0.57
<b>N(kg/ha)</b>	407.1	383.3
<b>P(kg/ha)</b>	16.1	19.9
<b>K(kg/ha)</b>	272.4	268.3

**Table: Effect of nano DAP on crop growth and yield of rice cv. R Sweta**

Technology option	Yield component			1000 seed weight (g)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
	No. of tillers per sq. m	Effective tillers per sq. m	Grains per panicle						
<b>T.O.1:</b> Farmers Practice - 187.5 : 75 : 37.5 :: NPK (100% P as DAP)	179.03	164.87	119.42	17.53	33.78	40650	77694	37044	1.9
<b>T.O.2:</b> 75% P as DAP + ST/SD with nano DAP + Foliar spray with nano DAP 4 mL/L water at tillering stage	191.80	179.40	130.83	19.67	41.32	41250	95036	53786	2.30
<b>T.O.3:</b> 75% P as DAP + ST/SD with nano DAP + 1 <sup>st</sup> Foliar spray with nano DAP 4 mL/L water at tillering stage and 2 <sup>nd</sup> foliar spray at panicle initiation stage	195.03	180.87	132.07	20.53	42.78	42500	98394	55894	2.31



**OFT 11: (Soil Sc.)**

- **Thematic area:** Natural Resource Management
- **Problem definition/Name of OFT:** Low yield of chickpea

Crop	Chick pea variety Sabour Chana-1
Season	Rabi
Problem	Low yield of chick pea
Main cause	Injudicious use of fertilizers
Title of OFT	Assessment of efficacy of nano DAP and biofertilizers on crop growth and grain yield
Farming situation	Soil type: Sandy loam Land type: Plain Irrigation type: Tubewell Previous crop: Rice
Farmer practice	<b>T.O. 1:</b> Farmers Practice – 0 : 30 : 0 :: NPK (100% P as DAP)
Technology option selected for assessment	<b>T.O. 2:</b> 75% P as DAP + foliar spray of nano DAP @4mL/L of water at branching stage <b>T.O. 3:</b> Seed treatment with PSB, Rhizobium + 75% of P as DAP + foliar spray of nano DAP @4mL/L of water at branching stage
Source of technology	ZRS, Kalaburagi, Karnataka (2024)
No. of trial	10
Total area	1.0 ha
Detail of critical input	Rhizobium, PSB, Nano DAP
Performance indicator to be recorded	(i) Soil data before and after (pH, EC, OC, NPK) (ii) Technical indicator (Grain Yield (Q/ha), no. of plant/m <sup>2</sup> , 100 grain wt., no. of pod /plant, stover yield ) (iii) Economic indicator (Cost of cultivation, gross return, net return, B:C ratio) (iv) Farmer perception

**Status: Crop standing and result awaited**

**OFT 12: (Animal Sc.)**

- **Thematic area:** Diseases Management
- **Problem definition/Name of OFT:** Bacterial infection of reproductive system

1.	Title of On farm Trial	<b>Effect of intrauterine antimicrobials treatment in repeat breeding cross bred cows.</b>
2.	Problem diagnosed	Bacterial infection of reproductive system
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<b>FP:</b> 1.5 -2.0 kg spouted wheat/gram for 5-6 days +6-7 kg green grass (Tradition feeding) and 1-1.5kg concentrate mixture <b>TO1:</b> FP +Ciprofloxacin &Tinidazole combination @30ml daily for 5 days + GnRhpreparation @5ml I/M route 12 hrs before Insemination. <b>TO2:</b> FP + Ciprofloxacin &Tinidazole combination @30ml daily for 5 days + D0:GnRh (Buserelin ) 10 microgram +D7:PGF <sub>2</sub> alfa 500 microgram + D9:GnRh (Buserelin ) 10 microgram and D10 fixed time A.I. <b>TO3:</b> FP+ Ciprofloxacin &Tinidazole combination @30ml daily for 5 days + D0:GnRh (Buserelin ) 10 microgram +D7:PGF <sub>2</sub> alfa 500 microgram + D9:Oestradol 1 milligram of therapeutic trial and D10 fixed time A.I.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IVRI, Bairely, UP.
5.	Production system and thematic area	Calf and Diseases Management
6.	Performance of the Technology with performance indicators	Reproductive performance, Conception rate and B:C ratio
7.	Final recommendation for micro level situation	Mineral deficiency and hormonal imbalance.
8.	Constraints identified and feedback for research	Nutritional deficiency
9.	Process of farmers participation and their reaction	On farmers field and well
10.	No. of replication	10

**Table: Performance of reproductive system and Conception rate in cross bred cattle**

Thematic area	Technology options with detailed treatments	Area (ha in crop & Fodder)/ Nos (in livestock)		Conception/ Pregnancy rate	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Proposed	Actual					
Disease	<b>FP:</b> 1.5 -2.0 kg spouted wheat/gram for 5-6 days	10	10	30	205850	240000	34150	<b>1.1</b>

Managemen nt	+6-7 kg green grass (Tradition feeding) and 1-1.5kg concentrate mixture							
Disease Managemen nt	<b>TO1:</b> TO +Ciprofloxacin &Tinidazolecombination@30ml daily for 5 days + GnRhprepration@5ml I/M route 12 hrs before Insemination	10	10	40	210350	270000	59650	<b>1.2</b>
Disease Managemen nt	<b>TO2:</b> TO + Ciprofloxacin &Tinidazolecombination @30ml daily for 5 days + D0:GnRh (Buserelin) 10 microgram +D7:PGF <sub>2</sub> alfa 500 microgram+D9:GnRh (Buserelin ) 10 microgram and D10 fixed time A.I.	10	10	50	215350	300000	84650	<b>1.3</b>
Disease Managemen nt	<b>TO3:</b> TO + Ciprofloxacin &Tinidazole combination @30ml daily for 5 days + D0:GnRh (Buserelin) 10 microgram +D7:PGF <sub>2</sub> alfa,500microgram+D9:Oestradol 1 milligram of therapeutic trial and D10 fixed time A.I.	10	10	50	213950	300000	86050	<b>1.4</b>

**Results:** The better conception and pregnancy rate found in repeat breeding cross breed cows can be obtained by TO3 (Ciprofloxacin & Tinidazole combination @30ml daily for 5 days + D0: GnRh (Buserelin) 10 microgram +D7: PGF<sub>2</sub>alfa,500microgram+ D9: Oestradol 1 milligram of therapeutic trial and D10 fixed time A.I.) treatment through the cost of intervention seems to be higher than other treatment groups.

### OFT 13: (Animal Sc)

- **Thematic area:** Nutritional management.
- **Problem definition/Name of OFT:** Hormonal Imbalance and delayed ovulation or an ovulation

1.	Title of On Farm Trial	Comparative studies on different herbal medicines for induction of estrus in anoestrus buffalo heifer.
2.	Problem Diagnose	Hormonal Imbalance and delayed ovulation or an ovulation
3.	Details of Technologies selected for assessment /refinement	FP : Anoestrus buffalo heifers(Farmer Practice). TO1: Mineral mixture @ 50g orally for 10 days . TO2: TOI+ Prajana HS @ 3 capsule daily for 2 days followed by 3 capsules orally for 2 days on 11th day of study. TO3:TOI+ <i>Randiadumetorum</i> (madanphala)@ 15g. Orally, daily for 4 days of study TO4: TOI + <i>Tinosporacordifolia</i> (Giloy) @ 25g. Orally daily for 10 days of study.
4.	Source of technology	<i>Department of Veterinary Gynecology and Obstetrics,</i>

		<i>Narendra Deva University of Agriculture and Technology, Faizabad- U.P, and veterinary college and research intitute ,orathanadu &amp; veterinary animal science university tamilnadu ,India</i>
5.	Replication	10
6.	Production system & Thematic Area	Calf and Nutritional management.
7.	Performance of Technology with performance indicator	Reproductive performance, Conception rate and B:C ratio
8.	Process of farmers participation and their reaction	Discussion with farmers during Training Programmes Observation during field visits

**Table:** Reproductive performance and conception rate in Anestrous Buffalo Heifer

Technology option	No. of trials	Yield component Pre & Post treatments					Milk production (liters)	Gross Cost of animals feeding /medicine /Mineral mixture (Rs.)	Gross return (Rs calf, @10,000 & milk @50/lit)	Net return (Rs.)	B :C ratio
		Age of Heifer	Occurrence of heat	Insemination	Occurrences of heat/Conceived	Conception / pregnancy rate					
		years	hours	Natural/AI		%					
FP : Anestrus buffalo heifers (Farmer Practice)	10	4.2	3	Inseminated	3+Ve	30	4.2	65500	92000	26500	1.40
TOI: Mineral mixture @ 50g orally for 10 days	10	4.3	3	Inseminated	4+Ve	40	4.3	66000	95500	29500	1.44
TO II: TOI+ Prajana HS @ 3 capsule daily for 10 days	10	4.2	5	Inseminated	4 +Ve	40	4.6	65800	96000	30200	1.45
TOIII: TOI+Randiadumetorum (madanphala)@ 15g. Orally, daily for 10 days of study.	10	4.1	5	Inseminated	4 +Ve	40	4.7	66800	96000	30150	1.43

TO IV: TOI+Tinosporacordifolia (Giloy) @ 25g. Orally daily for 10 days of study	10	4.2	6	Inseminated	5 +Ve	50	4.8	66850	97000	29030	1.45
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**Problem definition:** Nutritional and Hormonal deficiency.

**Technology assessed:** Supplementation of minerals and hormonal are improve estrus cycle & normal reproductive system in cows.

**Results:** Results indicate the better conception and pregnancy rate in anestrus heifer buffaloes can be obtained by TO: IV(Mineral mixture @ 50g +*Tinosporacordifolia* (*Giloy*) @ 25g,Orally daily for 10 days) treatment through the cost of intervention seems to be higherthan other treatment groups.

#### OFT 14: (Animal Sc.)

1.	Season:	Rabi 2024-25
2.	Title of On farm Trial	Using Double Dose of GnRH for Reducing Incidence of Cystic Ovaries in Cows
3.	Problem diagnosed	Nutritional and hormonal imbalance of dairy cows
4.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO: Farmer Practice :Without any hormonal treatment TO1:Buserelin acetate (200mg),5 ml two dose at14th and 21th days after parturition. TO2:Gonadorelindiacetratytrahydrate (100mg), 2ml two dose (Cystrolin) at14th and 21th days after parturition
5.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IVRI, Bareilly ,UP (2023)
6.	Number of replication	10
7.	Production system and thematic area	Calf and Disease management.
8.	Critical Input	<ul style="list-style-type: none"> <li>• Buserelin acetate</li> <li>• Gonadorelin diacetatetytrahydrate</li> </ul>
9.	Details of Input (Unit Cost)	
10.	Total Cost	16400.00
11.	Performance of the Technology with performance indicators	<ul style="list-style-type: none"> <li>• Reproductive performance</li> <li>• Conception rate</li> </ul>

		• B:C ratio
12.	Final recommendation for micro level situation	
13.	Constraints identified and feedback for research	
14.	Process of farmers participation and their reaction	

Result- Continue

### OFT 15: (Animal Sc.)

1.	Season:	Rabi 2024-25
2.	Title of On farm Trial	Therapeutic assessment of herbal anthelmintic for control of anemia in goats.
3.	Problem diagnosed	Low body weight growth, mortality due to haemonchus worm in Goats
4.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO : Farmer Practice :feeding sarifa/palas leaves TO 1: Closantal bolus @5-10mg/kg body wt. orally. TO 2: Papaya leafs extract 15 Gm/days orally 10 days.
5.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	BASU ,Patna , Bihar
6.	Number of replication	10
7.	Production system and thematic area	Nutritional and Diseases management.
8.	Performance of the Technology with performance indicators	HB%, (0,15,30 days),Epg(0,15,30 days), Avg. Body weight gain(0,15,30 days),Mortality and B:C ratio
9.	Final recommendation for micro level situation	Awaited
10.	Constraints identified and feedback for research	Awaited
11	Process of farmers participation and their reaction	

Result- Continue

### 3.3 ACHIEVEMENTS OF FRONTLINE DEMONSTRATIONS (FLD)

#### A. Overall achievements of FLDs conducted during the year 2024

S.No	Crop category	No. of FLD	Area	No of beneficiaries	Yield in Demo (q/ha)	Yield in check (q/ha)
1.	Cereal Wheat Rabi 2023-24	1	4.0	10	41.4	39.2
	Cereal Wheat Rabi 2023-24	1	13.6	34	41.2	39.4
	Cereal Paddy (R. sweta) Kharif 2024	1	10	22	40.2	37.8
	Cereal Wheat (DBW187) Rabi 2024	1	10	31	Standing	
	Cereal Rice Kharif 2024	1	16.0	40	41.5	38.6
	Cereal Paddy (R. Sweta)	1	16	40	43.3	40.1
	Cereal Paddy (R. Sweta) Kharif 24	1	8	20	40.4	38.1
	Cereal Paddy	1	10	25	40.7	33.3
2.	Oil Seed					
3.	Pulses Gram (Sabour Chana-1)	1	1.25	8	Standing	
	Gram (Sabour Chana-1) Rabi 2024	1	2.0	38	Standing	
4.	Horticulture Crops (Marigold)	1	1	10	<b>96.2</b>	90.4
5.	Other crops Oat (Kent)	1	3.25	40	Standing	
6.	Hybrid crop					
7.	Livestock Vanraja Poultry farming for dual purpose (meat & Egg production)	1	360 chick (Poultry)	24	1.5 kg avg. body gain after 6 month	0.8 kg avg. body gain after 6 month
	Poultry Kadknath (back yard poultry farming )	1	700 chick (Poultry)	35	Avg. body wt. 1.5 kg/bird after 6 month (2% Mortality)	Avg. body wt. 0.8 kg/bird after 6 month (
	Duck Khakhi cambell (Back yard Poultry farming)	1	200 duck	40	1.2kg avg. body wt. gain & 5% mortality	0.69 kg avg. body wt. gain
	Sorted semen Desired sex (male or female Calf) and Milk production.	1	30 unit	30	8 Litre/day/cow	6 litre/day/cow
	FMD (Cattle) FMD(Cattle)	1	205	37	20% mortality	30% mortality

	PPR (Goat) PPR(Goats)	1	430	30	20% mortality	80% mortality
8.						
9.	Fisheries					
10.	Other enterprises Sorghum (Red Cheri) fodder grass production for milk production	1	20 unit	20	11.32	9.76
	H. Napier	1	2000 roots	40	9.4	8.9
	Mineral mixture (40-50g day) for control of infertility	1	50 unit	50	8.6 Litre/day/cow	8.0 litre/day/cow
11.	Women empowerment					
12.	Farm Machinery					
	Grand Total					

## B. Details of FLDs conducted during the year 2024

### 1. Cereals

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Wheat Rabi 2023-24	Small implements	Battery operated sprayer	10	4.0	41.4	39.2	5.6	38800	94185	55385	2.42	40900	89180	48280	2.18
Wheat Rabi 2023-24	Drone	Application of Nano urea by using Drone	34	13.6	41.2	39.4	4.6	39000	87550	48550	2.24	41300	83725	42425	2.02
Paddy (R. sweta) Kharif 2024	Use of Organic Inputs	Role of Blue green algae in paddy yield	22	10	<b>40.2</b>	37.8	6.3	41250	92460	51210	2.24	40750	86940	46190	2.13
Wheat (DBW187) Rabi 2024	Crop production	Cultivation of nutrient rich variety	31	10	<b>Standing</b>										
Rice Kharif 2024	Drone	Use of drone in agriculture	40	16.0	41.5	38.6	7.5	39100	95450	56350	2.44	42800	88780	45980	2.07
Paddy (R. Sweta)	IPM	Emamectin Benzoate 0.5 g/ L water to manage Stem borer in Paddy	40	16	43.3	40.1	7.9	43000	94524	51524	2.20	42000	87538	45538	2.08

Paddy (R. Sweta) Kharif 24	Small implements	Use of Fertilizer broadcaster machine	20	8	40.4	38.1	6.0	41000	92920	51920	2.26	43100	87630	44530	2.03
Paddy	INM	PSB, Azotobacter	25	10	<b>40.7</b>	33.3	22.2	41176	117645	76649	2.86	39580	58355	58675	1.67
Flower (Marigold) Kharif 24	Small implements	Use of Rotary Power Weeder in Marigold cultivation	10	1.0	<b>96.2</b>	90.4	6.4	124350	384800	260450	3.09	131250	361600	230350	2.75
Oat (Kent)	ICM	Seed, Agronomic management practices	40	3.25	<b>Standing</b>										
Gram (Sabour Chana-1)	ICM	Seed vr. Sabour chana-1, R. Culture, PSB & Agronomic management practices	8	1.25	<b>Standing</b>										

## 2. Oilseeds

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)				
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Total																

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

\*\* BCR= GROSS RETURN/GROSS COST





Crop	Name of the Hybrid	No. of Farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (Pl. specify)										
<b>Total Veg. Crops</b>										
<b>Commercial Crops</b>										
Cotton										
Coconut										
Others (Pl. specify)										
<b>Total Commercial Crops</b>										
<b>Fodder crops</b>										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (Pl. specify)										
<b>Total Fodder Crops</b>										

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

\*\* BCR= GROSS RETURN/GROSS COST

## 7. Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration (lit/kg)	Check (lit/kg)		Demonstration (qt/ha)	Check (qt/a)	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
1. Dairy	Fodder management	a. Sorghum (Red Cheri) fodder grass production for milk production	20	20	11.32	9.76	1.56	563	502	17100	56300	39200	3.2	18300	50200	31900	2.7
	Fodder management	b. H. Napier	40	2000 roots	9.4	8.9	0.5	345	New introduced	50300	70500	20200	1.4	48500	66750	18250	1.3
	Nutritional management	Mineral mixture(40-50g day) for control of infertility	50	50	8.6 liter/day/cow	8.0 liter/day/cow	0.6 liter	Conception Rate (60%)	Conception Rate (40%)	45,500	77,400	31,900	1.7	45,000	72,000	27000	1.6
2. Poultry	Poultry management	Vanraja Poultry farming for dual purpose (meat & Egg production)	24	360 (Chicks)	After 6th months (1.5kg average body wt. gain)	After 6th months (0.8kg average body wt. gain)	0.7kg	0	0	41940	153900	111960	3.6	45250	72000	26750	1.5

	Poultry management	Kadknath (back yard poultry farming )	35	700 (Chicks)	Average body weight 1.5 kg/bird after 6 months of age (2% Mortality)	Average body weight 0.8 Kg/bird at 6 <sup>th</sup> months of age	0.7kg	0	0	49250	128800	79550	2.6	45250	72000	26750	1.5
3. Duckery	Poultry Management	Khakhi cambell (Back yard Poultry farming)	40	200 (Ducks)	After 5th months (1.2kg average body wt. gain & 5 % mortality )	After 5th months (0.9 kg average body wt. gain )	0.3kg	0	0	34000	64800	47000	1.9	20000	32400	12400	1.6
4. Sorted semen	Dairy Management	Desired sex (male or female Calf) and Milk production.	30	30	8 liter/day/cow	6 liter/day/cow	New Tech	14 conceived	0	43000	111000	68000	2.5	0	0	0	
5. Vaccination	Disease management	FMD(Cattle)	37	205	20% Mortality	30% Mortality	60%										
		PPR(Goats)	30	430	20% Mortality	80% Mortality	60%										
Total																	

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

\*\* BCR= GROSS RETURN/GROSS COST

### 8. Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)				
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Common carps																		
Mussels																		
Ornamental fishes																		
Others (pl specify)																		
Total																		

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

\*\* BCR= GROSS RETURN/GROSS COST

### 9. Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit					
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR		
Oyster mushroom	Enterprise development																	
Button mushroom																		
Vermicompost																		
Sericulture																		
Apiculture																		
Others (pl. specify)																		
Total																		

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

\*\* BCR= GROSS RETURN/GROSS COST

### 10. Women empowerment

Name of technology	No. of demonstrations	Name of technology	Observations		No. of Beneficiaries
			Check	Demonstration	
<b>Women</b>					
Drudgery Reduction	150	Small farm implemnts (Sickle)	25	175	175
Enterprises					
Farming System	50	Backyard Poultry farming	10	50	50
Health and nutrition	45	Nutrient rich small millets	5	45	45
Kitchen Garden	100	Establishment of Nutrition garden	20	80	100
Nutrigarden	100	Establishment of Nutrition garden	15	100	100
Storage Technique					
Value addition	2	Pulverrizer and Flour making machine Mill	0	2	Two SHG's group
Women Empowerment					
Others					
<b>Total - Women</b>					
<b>Children</b>					
Health and nutrition					
Others					
<b>Total - Children</b>					
Other if any					
<b>Total others</b>					
<b>Grand Total</b>	445	0	5	400	470

### 11. Farm implements and machinery

Category	No. of FLDs	Name of the implement	Crop	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)	Cost reduction (Rs./ha or Rs./Unit)
						Demonstration	Check			
Sowing and planting tools and machineries	20	Fertilizer Broadcaster	Rice (Kharif 2024)	20	8.0	40.4	38.8	6.0	6.0	2100
Total Sowing and planting Machineries										
Intercultural operation tools and machineries	10	Rotary Power Weeder	Flower (Marigold) Kharif 2024)	10	1.0	96.2	90.4	6.4	48	6900
Irrigation management tools and machineries										
Plant protection tools and machineries	34	Agri Drone	Wheat (Rabi 2023-24)	34	13.6	41.2	39.4	4.6	10	2300
	40	Agri Drone	Rice (Kharif 2024)	40	16.0	41.5	38.6	7.5	14	3700
	10	Battery operated sprayer	Wheat (Rabi 2023-24)	10	4.0	41.4	39.2	5.6	6.0	2100
Harvesting tools and machineries										
Postharvest processing tools and machineries										
Total mechanization tools and machineries										
Others										
Total of Others										

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

\*\* BCR= GROSS RETURN/GROSS COST

### Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	Month of April and Novemebr 2024	7	212	
2.	Farmers Training	Month of January and Dec 2024	18	312	
3.	Media coverage	-	-	-	
4.	Training for extension functionaries	-	-	-	

### Technical Feedback on the demonstrated technologies (if any)

Sl. No	Crop	Feed Back
1	Wheat	5.6% yield increase and reduction by using battery operated sprayer and cost saving
2	Rice	Yield increase of Rice by 6% and drudgery reduction by using Fertilizer Broadcaster as well as cost saving
3	Rice	Yield increase of Rice by 7.9% by spraying Emamectin Benzoate 0.5 g/ L water to manage Stem borer in Paddy
4	Fodder grass & H. Napier	10% increase in milk production by Sorghum (Red Cheri) fodder grass production for milk production
5	Mineral Mixture	30% increase in reproductive performance by Mineral mixture (40-50g day) for control of infertility
6	Poultry (Vanraja)	Increase body weight gain after 6 months more than that of local bred of poultry
7	Poultry (Kadakhnath)	Increase body weight gain after 6 months more than that of local bred of poultry
8	Poultry (Khaki Cambell)	Khakhi cambell (Back yard Poultry farming) after 5th months of age (1.2kg average body wt. gain)
9	Sorted semen	Female calf more demand than male calf
10	Vaccination (FMD)	Mortality reduces by 38% and productivity increases by 18%
11	Vaccination (PPR)	Mortality reduces by 80% and productivity increases by 32%
12	Lentil (Response of PSB+ R. Culture)	Yield enhancement by the application of PSB and Rhizobium culture by 18.5% and also improved the soil health and quality of the produce
13	Wheat (Application of Nano urea)	Yield enhancement by the application of Nano urea along with micro-nutrient by 12% and also reduced the cost of cultivation
14	Paddy (response of PSB and Azotobacter )	On the basis of conducted demonstration during the kharif season 2024 and feedback given by the farmers, the yield enhancement done 18% by the application of PSB and azotobacter along with 75% RDF
15	Sweet Shorgum (Summer fodder)	The milk yielded by the buffalo and cow due to regular consumption of sweet shorgum since May to Aug. were 12% as compared with no consumption of sweet shorgum feedback given by the farmers

**PERFORMANCE OF THE DEMONSTRATION UNDER CFLD ON PULSE AND OILSEED CROPS (CFLD)**

**(During Kharif, Rabi and Summer)**

**1. Technical Parameters:**

S. No.	Crop season	Name of crop demonstrated	Area (ha)	Number of farmers	Detail of technology demonstrated	Detail of existing farmer practice	Yield (q/ha) in farmer field	Yield obtained in demonstration (q/ha)			Yield gap (Kg/ha) w.r.to			Yield gap minimized (%)		
								Max.	Min.	Av.	District yield (D)	State yield (S)	Potential yield (P)	D	S	P
1.	Rabi	Lentil	20	65	Variety: IPL 220 Seed rate:40 kg/ ha Sowing type and spacing: Line sowing/ After broadcast Harrowing Seed treatment: Carbendazim +Imidacloprid Soil treatment: Trichoderma with FYM Micronutrient: No Fertilizer application as soil test result:20-40-20 Weed management: Pre-emergence: Pendimethalin Plant protection measurement: Fungicides (Carbendazime+Mencozeb), Thiamethoxam	Local Variety- Titki, 60 kg /ha, Broadcast without Harrowing, No weed management, Spray of chlorpyrifos	8.1	13.1	9.3	11.2	10	9.2	14	12	20	- 25
2.	Rabi	Mustard	20	50	Variety: RH 725 + Pant Shweta Seed rate:5 kg/ ha Sowing type and spacing: Line sowing/ After broadcast Harrowing Seed treatment: Carbendazim +Imidacloprid Soil treatment: Trichoderma with FYM Micronutrient: No Fertilizer application as soil test result:80-40-40-20 Weed management:	Local Variety, 8 kg /ha, Broadcast without Harrowing, No weed management, Spray of chlorpyrifos	8.8	16.5	12.5	13.5	11	12.2	25	23	3	- 46



### C. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
IPL 220 Biofortified	Excellent	38 % Yield increase	High acceptance by farmers due to nutrient rich
RH 725 HVY	Excellent	53 % Yield increase	Yield increased as compare to traditional varieties sown by farmers

### D. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Training	02.11.2023	35
2	Training	03.11.2023	32
3	Training	07.11.2023	33
4	Training	08.11.2023	29
5	Training	27.02.2024	31
1	Field day	23.02.2024	31
2	Field day	29.02.2024	47

### E. Photographs (as per crop stages i.e. growth & development)



**F. Farmers' training photographs**



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



**H. Details of budget utilization**

<b>Crop (Provide crop wise information)</b>	<b>Items</b>	<b>Area (ha) allotted</b>	<b>Area (ha) achieved</b>	<b>Budget Received (Rs.)</b>	<b>Budget Utilization (Rs.)</b>	<b>Balance (Rs.)</b>
Lentil	i) Critical input	20	20			
	ii) TA/DA/POL etc. for monitoring					
	iii) Extension Activities (Field Day)					
	iv)Publication of literature					
	Total			0	105372	
<b>Crop (Provide crop wise information)</b>	<b>Items</b>	<b>Area (ha) allotted</b>	<b>Area (ha) achieved</b>	<b>Budget Received (Rs.)</b>	<b>Budget Utilization (Rs.)</b>	<b>Balance (Rs.)</b>
Mustard	i) Critical input	20	20			
	ii) TA/DA/POL etc. for monitoring					
	iii) Extension Activities (Field Day)					
	iv)Publication of literature					
	Total			46400	66683	





Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Nutrient Use Efficiency	2	22	9	31	9	15	24	0	0	0	31	24	55
Soil and Water Testing													
Others, if any (Natural farming)	3	22	8	30	16	22	38	0	0	0	38	30	68
Weed management	1	12	5	17	13	17	30	0	0	0	25	22	47
NRM	1	10	4	14	7	3	10	0	0	0	17	7	24
<b>IV. Livestock Production and Management</b>													
Dairy Management	5	84	70	154	37	11	48	0	0	0	121	81	202
Poultry Management	3	13	1	14	16	84	100	0	0	0	29	85	114
Piggery Management													
Rabbit Management													
Disease Management													
Feed management	7	99	77	176	9	30	39	0	0	0	108	107	215
Production of quality animal products													
Nutritional management	3	27	31	58	11	31	42	0	0	0	38	62	100
Others, if any Goat farming													
<b>V. Home Science/Women empowerment</b>													
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													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
<b>VI. Agril. Engineering</b>													
Installation and maintenance of micro irrigation systems	9	155	52	207	47	41	88	0	0	0	202	93	295
Use of Plastics in farming practices													
Production of small tools	1	24	4	28	5	7	12	0	0	0	29	11	40















Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
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														
Others, if any														
<b>IX. Production of Inputs at site</b>														
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														
Others, if any														
<b>X. Capacity Building and Group Dynamics</b>														
Leadership development														
Group dynamics														
Formation and Management of SHGs														
Mobilization of social capital														
Entrepreneurial development of farmers/youths														
WTO and IPR issues														
Others, if any														
<b>XI Agro-forestry</b>														
Production technologies														
Nursery management														
Integrated Farming Systems														
<b>XII. Others (Pl. Specify)</b>														
<b>TOTAL</b>	126	2100	844	2944	794	784	1578	0	0	0	2922	1736	4522	

**E) RURAL YOUTH Including the sponsored training programmes (Off Campus)**

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production	8	13											
Production of organic inputs	3	9	30	169	42	10	52	0	0	0	181	40	221
Integrated Farming		15	0	15	16	49	65	0	0	0	31	49	80
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements	5	68	13	81	17	35	52	0	0	0	85	48	133
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying	4	57	4	61	12	32	44	0	0	0	69	36	105
Sheep and goat rearing	1	36	8	44	4	2	6	0	0	0	40	10	50
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	0	0	0	2	31	33	0	0	0	2	31	33
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	0	0	0	2	31	33	0	0	0	2	31	33
Post-Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if any (IPM)	2	42	11	53	4	3	7	0	0	0	46	14	60
Disease management	1	17	0	17	2	0	2	0	0	0	19	0	19
Doubling income	2	46	6	52	7	2	9				53	8	61
Fish cum duck farming	1	0	0	0	4	31	35	0	0	0	4	31	35
Package & practice	1	16	8	24	4	5	9	0	0	0	20	13	33

Thematic Area	No. of Courses	No. of Participants									Grand Total							
		Other			SC			ST			M	F	T					
		M	F	T	M	F	T	M	F	T								
TOTAL	30	43	6	80	516	11	6	23	1	34	7	0	0	0	552	31	1	863

#### F) Extension Personnel Including the sponsored training programmes (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total							
		Other			SC			ST			M	F	T					
		M	F	T	M	F	T	M	F	T								
Productivity enhancement in field crops																		
Integrated Pest Management	2	56	6	62	9	3	12	0	0	0	65	9	74					
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	3	261	43	304	49	22	71	0	0	0	310	65	375					
WTO and IPR issues																		
Management in farm animals																		
Livestock feed and fodder production	3	59	6	65	2	0	2	0	0	0	61	6	67					
Household food security																		
Women and Child care																		
Low cost and nutrient efficient diet designing	1	17	3	20	0	0	0	0	0	0	17	3	20					
Production and use of organic inputs																		
Gender mainstreaming through SHGs																		
Crop intensification																		
TOTAL	9	393	58	451	60	25	85	0	0	0	453	83	536					

#### G) Consolidated table (ON and OFF Campus)

##### i. Farmers & Farm Women

Thematic Area	No. of Courses	No. of Participants									Grand Total								
		Other			SC			ST			M	F	T						
		M	F	T	M	F	T	M	F	T									
<b>I. Crop Production</b>																			
Weed Management	5	81	11	92	23	12	35	0	0	0	104	23	127						
Resource Conservation Technologies	4	42	47	89	23	38	61	0	0	0	65	85	150						



Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
technology													
Processing and value addition													
Others, if any													
<b>TOTAL</b>													
<b>e) Tuber crops</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>TOTAL</b>													
<b>f) Spices</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>TOTAL</b>													
<b>g) Medicinal and Aromatic Plants</b>													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
<b>TOTAL</b>													
<b>III. Soil Health and Fertility Management</b>													
Soil fertility management	4	34	32	66	14	43	57	0	0	0	48	75	123
Soil and Water Conservation	3	26	17	43	3	3	6	0	0	0	29	20	49
Integrated Nutrient Management	11	110	70	180	51	90	141	0	0	0	160	161	321
Production and use of organic inputs	1	0	0	0	2	19	21	0	0	0	21	0	21
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency	5	54	28	82	18	26	44	0	0	0	72	54	126
Soil and Water Testing													
Others, if any (Mal- nutrition eradication)	1	13	8	21	7	32	39	0	0	0	20	40	60
Others, if any (Natural farming)	3	22	8	30	16	22	38	0	0	0	38	30	68
Vermi-compost production	1	15	0	15	7	0	7	0	0	0	22	0	22
Weed management	4	52	78	130	17	29	46	0	0	0	69	107	176
NRM	1	10	4	14	7	3	10	0	0	0	17	7	24
<b>TOTAL</b>													
<b>IV. Livestock Production and Management</b>													
Dairy Management	8	118	88	206	53	54	107	0	0	0	171	142	313
Poultry Management	5	13	1	14	37	120	157	0	0	0	50	121	171
Piggery Management													
Rabbit Management													
Disease Management	8	224	65	289	16	84	245	0	0	0	385	149	534
Feed management	17	357	248	605	11	91	207	0	0	0	473	339	812

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
					6									2
Production of quality animal products														
Others, if any (Nutritional management)	6	89	51	140	26	64	90	0	0	0	115	115		23
TOTAL														
<b>V. Home Science/Women empowerment</b>														
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														
Enterprise development														
Value addition	1	24	5	29	1	0	1	0	0	0	25	5		30
Income generation activities for empowerment of rural Women														
Location specific drudgery reduction technologies														
Rural Crafts														
Capacity building														
Women and child care														
Others, if any														
TOTAL														
<b>VI. Agril. Engineering</b>														
Installation and maintenance of micro irrigation systems	10	164	55	219	51	45	96	0	0	0	215	100		31
Use of Plastics in farming practices														
Production of small tools and implements	6	84	37	121	38	59	97	0	0	0	122	96		21
Repair and maintenance of farm machinery and implements	47	890	266	115	23	1	225	456	0	0	8	612		16
Small scale processing and value addition														
Post-Harvest Technology														
Others, if any (Use of Drone for spray)	1	28	0	28	5	1	6	0	0	0	33	1		34
Water management	8	105	44	149	37	28	65	0	0	0	133	59		21
Crop Residue management	2	46	6	52	17	5	22	0	0	0	63	11		74
Others, if any (Climate Resilient technology)	1	0	14	14	0	6	6	0	0	0	0	20		20
TOTAL														
<b>VII. Plant Protection</b>														
Integrated Pest Management	30	391	229	620	11	4	182	296	0	0	0	505	411	
Integrated Disease Management	1	19	1	20	0	0	0	0	0	0	19	1		20
Bio-control of pests and diseases														
Production of bio control agents and bio pesticides														
Others, if any (Natural Farming)	1	10	4	14	7	9	16	0	0	0	17	13		30
Millet production	1	10	6	16	9	5	14	0	0	0	19	11		30
Bee Beeper	1	6	4	10	2	3	5	0	0	0	8	7		15







Value addition														
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	3	261	43	304	49	22	71	0	0	0	310	65	375	
WTO and IPR issues														
Management in farm animals														
Livestock feed and fodder production	4	75	6	81	2	0	2	0	0	0	77	6	83	
Household food security														
Women and Child care														
Low cost and nutrient efficient diet designing	1	17	3	20	0	0	0	0	0	0	17	3	20	
Production and use of organic inputs														
Gender mainstreaming through SHGs														
Crop intensification														
Others if any (RCT)	1	0	14	14	7	0	7	0	0	0	7	14	21	
<b>TOTAL</b>	<b>12</b>	<b>439</b>	<b>75</b>	<b>514</b>	<b>68</b>	<b>26</b>	<b>94</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>507</b>	<b>101</b>	<b>608</b>	

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

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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of SC/ST			Number of participants (others)			Over all participants
					M	F	Total	M	F	Total	
Agronomy	PF	Application of vermicompost in crop production	1	ON	5	0	5	25	0	25	30
Agronomy	PF	Weed management in Rabi crop	1	OFF	6	0	6	18	0	18	24
Agronomy	PF	Nutrient management in	1	ON	18	2	20	21	0	21	41

		Rabi crop									
Agronomy	PF	Spraying of water soluble fertilizer NPK in Lentil	1	OFF	4	0	4	14	3	17	21
Agronomy	PF	Spraying of water soluble fertilizer NPK in Lentil	1	OFF	0	0	0	17	6	23	23
Agronomy	PF	Importance of irrigation in wheat	1	OFF	12	2	14	0	0	0	14
Agronomy	PF	Scientific cultivation of Finger millets	1	OFF	4	2	6	5	21	26	29
Agronomy	PF	Scientific cultivation of Finger Millets	1	OFF	17	4	21	0	0	0	21
Agronomy	PF	Scientific cultivation on Shorgum	1	OFF	5	0	5	14	2	16	21
Agronomy	PF	Scientific cultivation on Moong	1	OFF	8	23	31	0	0	0	31
Agronomy	PF	Application of balance dose nutrients	1	OFF	5	4	9	8	4	12	21
Agronomy	PF	Scientific cultivation of Shorgum	1	ON	4	5	9	10	5	15	24
Agronomy	PF	Weed management in Kharif crop	1	OFF	0	0	0	16	5	21	21
Agronomy	PF	Scientific cultivation of Moong	1	OFF	9	12	21	0	0	0	21
Agronomy	PF	Application of irrigation in summer	1	off	5	0	5	14	2	16	21
Agronomy	PF	Scientific cultivation on Shorgum	1	off	0	4	4	16	3	19	19
Agronomy	PF	Irrigation application on paddy	1	off	4	4	8	9	4	13	21
Agronomy	PF	Direct seeding of Paddy	1	On	7	0	7	28	0	28	35
Agronomy	PF	Direct seeding of Paddy & finger millets	1	On	1	5	6	4	30	34	40
Agronomy	PF	response of PSB and Azoto in Paddy	1	Off	5	5	10	20	2	22	32
Agronomy	PF	Irrigation in Paddy	1	Off	2	3	5	12	3	15	20
Agronomy	PF	Scientific cultivation on	1	Off	7	2	9	22	0	22	31

		Ragi crop									
Agronomy	PF	management of Zn in Paddy	1	On	10	15	25	15	10	25	50
Agronomy	PF	Weed management in Paddy	1	Off	3	5	8	5	9	14	22
Agronomy	PF	Irrigation management in Paddy	1	Off	8	8	16	24	0	24	32
Agronomy	PF	INM in Paddy	1	off	6	0	6	21	0	21	27
Agronomy	PF	Vermicomp and its uses	1	on	5	0	5	35	0	35	40
Agronomy	PF	Vermicomp and its uses	1	off	7	0	7	15	0	15	22
Agronomy	PF	Scientific cultivation on Mustard	1	on	0	25	25	0	0	0	25
Agronomy	PF	Scientific cultivation on Gram, Lentil	1	off	9	15	24	0	0	0	24
Agronomy	PF	Scientific cultivation on Wheat	1	off	10	4	14	38	2	40	54
Agronomy	PF	Scientific cultivation on Rabi Oilseed crop	1	on	0	40	40	0	0	0	40
Agronomy	PF	Raising of field crop alongwith Animal Husbandary	1	on	3	30	33	0	0	0	33
Agronomy	PF	Scientific cultivation on Oat	1	on	0	0	0	20	10	30	30
Agronomy	PF	Scientific cultivation on Mustard	1	Off	5	4	9	11	2	13	22
Agronomy	PF	Scientific cultivation on Rabi crop	1	On	10	5	15	30	5	35	50
Agronomy	PF	Scientific cultivation on Rabi crop	1	Off	8	10	18	11	5	16	34
Agronomy	PF	Scientific cultivation on Wheat and Gram	1	Off	4	7	11	10	4	14	25
Agronomy	PF	Zero tillage sown Wheat, Gram and Lentil	1	Off	5	20	25	5	10	15	40
Agronomy	PF	Zero tillage sown Wheat, Gram and Lentil	1	Off	10	13	23	5	7	12	35
Agronomy	PF	Application of PSB, R. culture in Pulses	1	Off	6	4	10	18	2	20	30
Agronomy	PF	Application of PSB, R. culture	1	Off	5	0	5	18	2	20	25

		in Pulses									
Agronomy	RY	Seed production technique of lentil & Wheat	1	Off	5	4	9	11	4	15	20
Agronomy	RY	Seed production technique of Finger millets	2	ON	5	2	7	28	0	28	35
Agronomy	RY	Vermicomposting	1	OFF	0	15	15	5	0	5	20
Agronomy	RY	Vermicomposting	1	OFF	8	17	25	5	0	5	30
Agronomy	RY	Vermicomposting	1	OFF	8	17	25	5	0	5	30
Agronomy	RY	Seed production techniques on Moong	10	ON	6	0	6	24	0	24	30
Agronomy	RY	Seed production techniques of Shorgum	1	ON	9	0	9	20	0	20	29
Agronomy	RY	Seed production techniques of Moong	1	ON	12	12	24	0	0	0	24
Agronomy	RY	Vermicompost production and uses	1	On	5	2	7	22	2	24	31
Agronomy	RY	Quality seed production of Kharif crop	5	On	7	0	7	24	0	24	31
Agronomy	RY	Seed production techniques of Berseem	5	on	8	0	8	28	5	33	41
Agronomy	RY	Seed production techniques of Mustard	1	on	3	5	8	5	7	12	20
Agronomy	RY	Seed production techniques of Berseem	1	off	15	0	15	35	0	35	50
Agronomy	RY	Seed production techniques of Berseem, Oat	1	off	4	0	4	15	2	17	21
Agronomy	RY	Seed production technique on Oat	1	on	10	2	12	38	0	38	50
Agronomy	RY	Seed, production on Gram, Lentil, Wheat	1	off	5	0	5	25	0	25	30
Agronomy	RY	Seed, production on Gram, Lentil, Wheat	1	off	0	0	0	15	4	19	19
Agronomy	RY	Seed, production on Gram, Lentil, Wheat	1	on	13	0	13	32	0	32	45
Agronomy	RY	Seed, production on Mustard	1	Off	8	2	10	12	3	15	25
Agronomy	RY	Seed, production on Gram, Lentil, Wheat	1	On	10	8	18	16	6	22	40
Agronomy	RY	Seed, production on Mustard	1	Off	5	4	9	10	12	22	31

Agronomy	RY	Seed, production on Mustard	1	Off	0	0	0	16	5	21	21
Agronomy	EF	Integrated nutrient management in DSR	1		7	0	7	0	14	14	21
Entomology	PF	management of Helicoverpa in Chickpea	1	ON	6	3	9	30	2	32	41
Entomology	PF	Aphid management in Oilseeds crop	1	ON	4	3	7	28	6	34	41
Entomology	PF	Millets cultivation techniques in Natural farming	1	ON	7	3	10	30	3	33	43
Entomology	PF	Millet cultivation technology	1	ON	3	4	7	15	0	15	22
Entomology	PF	IPM in Moong crop	1	ON	7	6	13	8	0	8	21
Entomology	PF	Production technology of Moong	1	ON	5	16	21	5	16	21	42
Entomology	PF	Pest management in vegetable crops	1	ON	6	2	8	17	2	19	27
Entomology	PF	Pest management in Millets	1	ON	10	0	10	24	0	24	34
Entomology	PF	Prodcution techniques of Moong	1	On	7	9	16	10	4	14	30
Entomology	PF	Cultivation techniques of Millets	1	On	9	5	14	10	6	16	30
Entomology	PF	Pest management in summer vegetables	1	OFF	0	0	0	19	1	20	20
Entomology	PF	Pest management in Moong crop	1	OFF	4	2	6	23	1	24	30
Entomology	PF	Pest management of Summer veg. crop	1	OFF	3	5	8	18	4	22	30
Entomology	PF	Pest management in vegetable crops	1	on	1	16	17	0	17	17	34
Entomology	PF	Pest management in Millets	1	on	0	16	16	0	15	15	31
Entomology	PF	Bee Keeping-Raving management	1	Off	4	1	5	15	0	15	20
Entomology	PF	Stem borer management in Paddy	1	On	5	15	20	5	8	13	33
Entomology	PF	IPM in Paddy	1	Off	5	15	20	7	8	15	35
Entomology	PF	Application of Nano Urea by	1	On	3	21	24	3	13	16	40

		Drone technology									
Entomology	PF	Pest management in Paddy	1	On	5	8	13	6	10	16	29
Entomology	PF	Pest management in Paddy	1	On	2	16	18	2	15	17	35
Entomology	PF	Pest management in Paddy	1	on	2	3	5	6	4	10	15
Entomology	PF	Pest management of Kharif crops	1	on	9	7	16	0	0	0	16
Entomology	PF	Pest management in Kharif vegetable	1	off	4	0	4	6	11	17	29
Entomology	PF	Seed treatment of Rabi crops	1	off	4	0	4	16	1	17	21
Entomology	PF	Pest management in Rabi Oilseeds	1	off	5	2	7	21	1	22	29
Entomology	PF	Pest management in vegetable crops	1	off	5	3	8	17	7	24	32
Entomology	PF	pest management in cruciferous crop	1	off	1	13	14	2	10	12	26
Entomology	PF	Seed treatment in rabi crops	1	ON	5	3	8	16	10	26	34
Entomology	PF	IPM in rabi crops	1	ON	4	6	10	10	15	25	35
Entomology	PF	Seed treatment in rabi crops	1	Off	0	0	0	35	15	50	50
Entomology	PF	IPM in Mustard	1	Off	0	0	0	34	16	50	50
Entomology	PF	IDM in Oilseeds crops	1	Off	2	7	9	7	15	22	31
Entomology	PF	Pest management in Veg. crops	1	Off	0	5	5	1	12	13	18
Entomology	PF	IPM in rabi crops	1	Off	6	3	9	18	3	21	30
Entomology	PF	IPM in rabi crops	1	Off	2	1	3	16	1	17	20
Entomology	RY	Bee Keeper	10	ON	4	4	8	9	3	12	20
Entomology	RY	Bee Keeper	1	off	4	3	7	19	4	23	30
Entomology	RY	Bee Keeper	1	off	0	0	0	36	14	50	50
Entomology	RY	Bee Keeper	10	on	4	3	7	19	4	23	30
Entomology	EF	Pest management in Paddy crops	1	ON	1	1	2	30	3	33	34
Entomology	EF	Pest management in vegetable crops	1	off	5	2	7	28	4	32	39
Entomology	EF	Pest management in Paddy crops	1	off	4	1	5	28	2	30	35
Agril. Engg.	PF	Irrigation water management in ZT Wheat	1	ON	8	4	12	36	6	42	54
Agril. Engg.	PF	Irrigation water management in Raised bed Maize	1	ON	6	2	8	20	3	23	31
Agril. Engg.	PF	Use of Modern machineries in Agriculture	1	OFF	6	0	6	26	0	26	32
Agril.	PF	Improved	1	ON	2	3	5	20	5	25	30

Engg.		implement for CRA									
Agril. Engg.	PF	Improved sowing implements	1	ON	2	1	3	17	2	19	22
Agril. Engg.	PF	Irrigation water management in Wheat	1	ON	4	2	6	26	6	32	38
Agril. Engg.	PF	Land Levelling by Laser leveler	1	ON	2	5	7	21	12	33	40
Agril. Engg.	PF	Sprinkler irrigation system	1	OFF	4	4	8	9	3	12	20
Agril. Engg.	PF	Drip irrigation system	1	ON	6	7	13	15	4	19	32
Agril. Engg.	PF	Knowlede, utility and operation method of suitable improved agricultural implements from sowing to harvesting of crop	1	OFF	0	0	0	34	2	36	36
Agril. Engg.	PF	Improved machines for Wheat harvesting	1	ON	3	9	12	19	7	26	38
Agril. Engg.	PF	Sowing of Gree Gram through ZTT	1	ON	2	3	5	14	2	16	21
Agril. Engg.	PF	Use of Drone in Agriculture for spray of nano urea	1	OFF	5	1	6	28	0	28	34
Agril. Engg.	PF	Use of improved sowing implements	1	ON	9	6	15	10	5	15	30
Agril. Engg.	PF	Small improved implements	1	OFF	11	36	47	1	1	2	49
Agril. Engg.	PF	Operation and maintenance of ZT machine for Moong sowing	1	OFF	3	6	9	18	3	21	30
Agril. Engg.	PF	In-situ moisture conservation	1	ON	4	0	4	16	0	16	20
Agril. Engg.	PF	In-situ moisture conservation methods	1	ON	9	6	15	10	5	14	30
Agril. Engg.	PF	machines used for direct sowing of rice	1	off	2	0	2	18	2	20	22
Agril. Engg.	PF	Pegeonpea cultivation by Raised bed technique	1	on	4	0	4	16	1	17	21
Agril. Engg.	PF	Maize sowing by raised bed	1	on	2	5	7	12	3	15	22

		technique									
Agril. Engg.	PF	Water conservation technique in Paddy	1	off	5	2	7	22	1	23	30
Agril. Engg.	PF	Improved tillage implements	1	off	3	5	8	18	4	22	30
Agril. Engg.	PF	Pigeonpea cultivation by Raised bed technique	1	off	4	0	4	19	0	19	23
Agril. Engg.	PF	Direct sowing techniques of Rice	1	off	3	2	5	14	3	17	22
Agril. Engg.	PF	raised bed Rgi cultivation	1	off	3	4	7	16	3	19	26
Agril. Engg.	PF	Maize sowing by raised bed technique	1	off	5	4	9	17	8	25	34
Agril. Engg.	PF	Alternate wetting & drying method of irrigation in Rice	1	off	1	3	4	11	1	12	16
Agril. Engg.	PF	Direct sowing of rice	1	off	4	5	9	16	8	24	33
Agril. Engg.	PF	DSR method	1	Off	1	6	7	8	12	20	27
Agril. Engg.	PF	Maize sowing by raised bed technique	1	On	5	4	9	28	4	32	39
Agril. Engg.	PF	DSR and water conservation by field bunding in Paddy	1	On	3	5	8	18	11	29	37
Agril. Engg.	PF	Pigeonpea sowing by Raised bed technique	1	On	2	1	3	19	0	19	22
Agril. Engg.	PF	DSR technique for rice sowing	1	Off	3	9	12	10	15	25	37
Agril. Engg.	PF	Implements for Direct seeding of rice	1	Off	5	2	7	22	3	25	32
Agril. Engg.	PF	Filed bunding and water conservation in rice	1	Off	6	9	15	22	14	36	51
Agril. Engg.	PF	Improved implements for weeding	1	Off	1	4	5	8	9	17	22
Agril. Engg.	PF	Benefits and precautions in use of Drone	1	Off	6	7	13	11	18	29	42
Agril. Engg.	PF	Improved machines for crop harvesting	1	Off	4	9	13	10	6	16	29

Agril. Engg.	PF	Alternate wetting & drying irrigation method for water management in Paddy	1	On	3	7	10	8	9	17	27
Agril. Engg.	PF	Use & maintenance of agrucultral machineries	1	On	1	15	16	3	16	19	35
Agril. Engg.	PF	Use of small tools and implements in cultivation	1	Off	9	7	16	12	16	28	44
Agril. Engg.	PF	Improved agricultural machnieres	1	Off	4	0	4	16	1	17	21
Agril. Engg.	PF	Use of Happy seeder	1	Off	4	5	9	12	6	18	27
Agril. Engg.	PF	Water management in Rice	1	On	6	4	10	14	6	20	30
Agril. Engg.	PF	Improved implements for weeding	1	Off	5	4	9	13	7	20	29
Agril. Engg.	PF	Water management in Rice by Alternate wetting and Drying method	1	Off	3	0	3	17	2	19	22
Agril. Engg.	PF	Irrigation water management in RBP Maize	1	On	2	28	30	6	32	38	68
Agril. Engg.	PF	Use of agricultural implements for sustainable farming	1	Off	28	0	28	74	0	74	102
Agril. Engg.	PF	Method of crop residue management	1	Off	7	0	7	15	0	15	22
Agril. Engg.	PF	Climate resilient agriculture technique	1	on	4	5	9	14	6	20	29
Agril. Engg.	PF	Sowing implements for rabi crops	1	on	0	6	6	0	14	14	20
Agril. Engg.	PF	machines for crop residue management and rabi crop sowing	1	off	2	0	2	25	0	25	27
Agril. Engg.	PF	Mustard sowing by ZTT	1	off	10	2	12	82	2	84	96
Agril. Engg.	PF	Sustainability of small agricultural	1	off	4	6	10	21	9	30	40

		implements									
Agril. Engg.	PF	Wheat cultivation through ZT	1	off	4	0	4	15	2	17	21
Agril. Engg.	PF	lentil cultivation by ZT	1	on	2	2	4	15	1	16	20
Agril. Engg.	PF	Use and working of ZT and happy seeder	1	off	4	2	6	19	4	23	29
Agril. Engg.	PF	Use of small implements in farming	1	off	6	4	10	20	8	28	38
Agril. Engg.	PF	Use of implements for Drudgery reduction in agriculture works	1	off	6	9	15	15	12	27	42
Agril. Engg.	PF	maize cultivation by raised bed	1	on	5	7	12	24	4	28	40
Agril. Engg.	PF	Chickpea cultivation by ZT	1	off	6	9	15	14	8	22	37
Agril. Engg.	PF	Modern machine for crop residue management	1	on	5	8	13	12	16	28	41
Agril. Engg.	PF	Operation, maintenance and calibration of Happy Seeder	1	on	13	0	13	32	0	32	45
Agril. Engg.	PF	Wheat cultivation by ZTT	1	Off	2	3	5	18	8	26	31
Agril. Engg.	PF	Operation & calibration of ZT machine	1	ON	6	2	8	29	3	32	40
Agril. Engg.	PF	Equipments for drudgery reduction in crop production	1	On	18	2	20	0	0	0	20
Agril. Engg.	PF	Wheat, Lentil, Chickpea cultivation by ZT	1	Off	5	20	25	5	10	15	40
Agril. Engg.	PF	Use of machineries for reducing cost of cultivation	1	Off	10	13	23	5	7	12	35
Agril. Engg.	PF	Water management in raised Bed Maize	1	Off	8	7	15	13	9	22	37
Agril. Engg.	PF	Water management in raised Bed Maize	4	On	6	1	7	22	1	23	30
Agril. Engg.	RY	Operation and repair of ZT machine	2	ON	4	4	8	15	1	16	24
Agril. Engg.	RY	Operation, repair and maintenance of improved	2	ON	2	3	5	13	1	14	19

		tillage implements									
Agril. Engg.	RY	Operation, repair and maintenance of crop harvesting and threshing machineries	2	ON	6	2	8	20	0	20	17
Agril. Engg.	RY	Repair and maintenance of sowing implements	1	OFF	2	1	3	17	1	18	21
Agril. Engg.	RY	Use, repair and maintenance of fertilizer broadcaster machine	1	OFF	4	30	34	0	0	0	34
Agril. Engg.	RY	Seed processing machineries	1	ON	9	0	9	20	0	20	29
Agril. Engg.	RY	Repair, maintenance and operation of sowing implements	1	off	2	0	2	22	0	22	24
Agril. Engg.	RY	Operation, repair and maintenance of small agricultural implements and tools	2	on	2	19	21	2	2	4	25
Agril. Engg.	RY	Improved tillage implements	1	off	4	0	4	19	0	19	23
Agril. Engg.	RY	Repair and maintenance of improved sowing & planting implements	2	On	3	1	4	14	2	16	20
Agril. Engg.	RY	repair and maintenance of weeding implements	1	Off	3	0	3	20	0	20	23
Agril. Engg.	RY	Operation, repair and maintenance of sowing implemnts	5	ON	3	15	18	27	5	32	50
Agril. Engg.	RY	Agro processing machineries	1	Off	4	24	28	3	67	70	98
Agril. Engg.	RY	Small agriculture equipments sustainable for employment	1	on	0	25	25	0	8	8	33
Agril. Engg.	RY	Operation and repair of sowing implements	2	on	6	1	7	29	2	31	38
Agril. Engg.	RY	Sowing	1	on	4	0	4	26	0	26	30

		implements for Oilseed crop									
Agril. Engg.	RY	machines for post harvest processing of Millets and other grains	1	on	0	22	22	0	0	0	22
Agril. Engg.	RY	Repair, maintenance of harvesting equipments	2	on	10	28	38	0	0	0	38
Agril. Engg.	RY	Operation, repair, maintenance of sowing implements for rabi crops	2	On	1	1	2	18	1	19	21
Agril. Engg.	RY	Operation, repair and maintenance of ZT	1	Off	5	4	9	10	12	22	31
Agril. Engg.	RY	manually operated crop sowing and harvesting implements	2	On	1	13	14	1	5	6	20
Agril. Engg.	EF	Care and maintenance of drip and sprinkler irrigation system	2	OFF	12	8	20	98	14	112	132
Agril. Engg.	EF	Use, operation and maintenance of agricultural drone	1	Off	7	4	11	98	9	107	118
Agril. Engg.	EF	Wheat cultivation by ZT and other agricultural equipments	1	off	30	10	40	65	20	85	125
Animal Sc.	PF	Housing & Nutritional management of Dairy cattle	1	ON	3	0	3	29	0	29	32
Animal Sc.	PF	AI techniques of dairy cattle	2	ON	2	0	2	30	7	37	39
Animal Sc.	PF	Dairy management of Cattle	1	ON	17	3	20	0	0	0	20
Animal Sc.	PF	Value addition of cattle by-products	1	ON	11	0	11	20	0	20	31
Animal Sc.	PF	Housing & disease management of Poultry	1	OFF	17	6	23	0	0	0	23
Animal Sc.	PF	Control of infertility in Dairy cattle	1	ON	10	0	10	10	0	10	20
Animal Sc.	PF	Income generation	1	OFF	11	36	47	1	1	2	49

		through Livestock									
Animal Sc.	PF	Nutritional management of Goat	1	OFF	2	1	3	24	9	33	36
Animal Sc.	PF	Poultry farm management	1	OFF	4	30	34	0	0	0	34
Animal Sc.	PF	Brooding management of Poultry chick	2	on	5	45	50	0	0	0	50
Animal Sc.	PF	care & management of vermicomposting	1	on	2	0	2	19	0	19	21
Animal Sc.	PF	Fodder production for dairy cattle	1	on	2	6	8	20	22	42	60
Animal Sc.	PF	Fodder production for dairy cattle	1	on	4	6	10	20	24	44	54
Animal Sc.	PF	Use of Millets for dairy cattle	1	on	0	16	16	1	17	18	34
Animal Sc.	PF	Disease management of Dairy	1	off	15	10	25	35	25	60	85
Animal Sc.	PF	Fodder production of Livestock	1	off	10	15	25	31	26	57	82
Animal Sc.	PF	Fodder production of Livestock	1	off	12	11	23	37	28	65	88
Animal Sc.	PF	Disease management of Livestock	1	off	20	13	33	32	12	44	76
Animal Sc.	PF	Fodder management of Livestock	1	Off	0	0	0	13	24	37	37
Animal Sc.	PF	Importance of green grass for Dairy cattle	1	On	0	1	1	15	4	19	20
Animal Sc.	PF	Seasonal green fodder production for Dairy cattle	1	Off	0	0	0	33	0	33	33
Animal Sc.	PF	Nutritional value of Livestock by-product	1	Off	1	0	1	24	5	29	30
Animal Sc.	PF	Prevention of infectious disease in Livestock	1	Off	7	4	11	8	0	8	19
Animal Sc.	PF	Brooding of Chicks	1	On	3	1	4	16	0	16	20
Animal Sc.	PF	Control of infection	1	off	2	2	4	11	23	34	38
Animal Sc.	PF	value addition through Milk By-products	1	on	0	9	9	7	31	38	47

Animal Sc.	PF	Disease management of Goats	1	off	27	16	43	0	0	0	43
Animal Sc.	PF	Fodder grass production for Dairy cattle	1	on	8	2	10	13	1	14	24
Animal Sc.	PF	Importance of sex sorted semen	1	on	5	8	13	15	63	78	91
Animal Sc.	PF	Nutritional & disease management of Livestock	1	off	7	32	39	13	8	21	60
Animal Sc.	PF	Vermicompost production	1	on	3	2	5	12	9	21	26
Animal Sc.	PF	Nutritional value of Dairy	1	on	0	22	22	0	0	0	22
Animal Sc.	PF	Fodder management of Livestock	1	off	3	0	3	22	0	22	25
Animal Sc.	PF	Housing & nutritional management of Duck	1	on	3	37	40	0	0	0	40
Animal Sc.	PF	Disease management of Poultry	1	off	0	0	0	28	3	31	31
Animal Sc.	PF	Nutritional management of Dairy cattle	1	off	0	0	0	19	14	33	33
Animal Sc.	PF	Disease management of Livestock	1	off	67	32	99	88	25	113	212
Animal Sc.	PF	Fodder management of Livestock	1	off	69	20	89	85	51	136	225
Animal Sc.	PF	Fodder management of Dairy cattle	1	Off	6	9	15	10	0	10	25
Animal Sc.	PF	Nutritional management of Dairy cattle	1	Off	6	0	6	25	3	28	34
Animal Sc.	PF	Vaccination of Goat	1	Off	25	9	34	0	0	0	34
Animal Sc.	PF	Control of infertility in Dairy cattle	1	Off	1	0	1	28	2	30	31
Animal Sc.	PF	Care & management of disease in cattle & fodder management	1	Off	4	7	11	5	15	20	31
Animal Sc.	PF	Care & management of disease in cattle & fodder	1	On	0	0	0	7	0	7	7

		management									
Animal Sc.	RY	Dairy farm management	4	ON	28	12	40	0	0	0	40
Animal Sc.	RY	Care & prevention of disease management	1	OFF	2	0	2	17	0	17	19
Animal Sc.	RY	Goat farm management	4	ON	17	0	17	21	2	23	40
Animal Sc.	RY	Nutritional management of Poultry	1	OFF	2	0	2	14	2	16	18
Animal Sc.	RY	Commercial Dairy farming	5	ON	1	6	7	27	6	33	40
Animal Sc.	RY	DFI for income generation	1	off	4	0	4	20	6	26	30
Animal Sc.	RY	DFI for income generation	1	off	3	2	5	26	0	26	31
Animal Sc.	RY	IFS Model	3	On	0	0	0	5	25	30	30
Animal Sc.	RY	Commercial Goat farming	3	On	6	8	14	12	14	26	40
Animal Sc.	RY	Housing management of Livestock	3	On	8	12	20	11	9	20	40
Animal Sc.	RY	Selection of Bred for Dairy cattle	5	On	19	16	35	0	0	0	35
Animal Sc.	RY	Disease management of Goats	4	On	10	5	15	30	5	35	50
Animal Sc.	RY	Goat farm management	1	off	3	15	18	32	0	32	50
Animal Sc.	RY	Commercial poultry farming	1	off	4	2	6	36	8	44	50
Animal Sc.	RY	Nutritional management of Dairy cattle	5	on	13	24	37	0	0	0	37
Animal Sc.	RY	Nutritional management of Dairy cattle	1	off	0	13	13	0	0	0	13
Animal Sc.	RY	Fish cum Duck farming	1	off	4	31	35	0	0	0	35
Animal Sc.	RY	Poultry farming	1	off	2	31	33	0	0	0	33
Animal Sc.	RY	Dairy farm management	5	On	4	3	7	23	10	33	40
Animal Sc.	RY	Nutritional management of Dairy cattle	1	Off	7	4	11	11	2	13	24
Animal Sc.	EF	Recent technique of Artificial insemination of Livestock	1	off	0	0	0	15	1	16	16
Animal Sc.	EF	Fodder production for Dairy cattle	1	Off	1	0	1	16	3	19	20
Animal Sc.	EF	Importance of	1	on	0	0	0	16	0	16	16

		Fodder grass for Dairy cattle									
Animal Sc.	EF	Recent development technology for Dairy cattle and small ruminant animals	1	Off	1	0	1	28	2	30	31
Soil Sc.	PF	Wheat crop cutting in CRA	1	OFF	0	0	0	2	0	2	2
Soil Sc.	PF	Layout & cultivation of vegetable garden	1	OFF	4	30	34	0	0	0	34
Soil Sc.	PF	Soil sampling technique & Soil Health card	1	on	1	22	23	3	3	6	29
Soil Sc.	PF	Importance of Green manuring in Soil	1	on	12	2	14	3	5	8	22
Soil Sc.	PF	In corporation of compost to improve soil health	1	on	9	11	20	4	5	9	29
Soil Sc.	PF	Estimation of moisture content of vermi compost using moisture water	1	on	2	19	21	0	0	0	21
Soil Sc.	PF	Crop diversification and soil fertility conservation	1	on	2	4	6	3	21	24	30
Soil Sc.	PF	Integrated nutrient management in Paddy	1	on	0	3	3	4	14	18	21
Soil Sc.	PF	Irrigation scheduling in Paddy	1	off	2	1	3	16	6	22	25
Soil Sc.	PF	Weed management in Kharif crops	1	off	0	7	7	6	51	57	64
Soil Sc.	PF	Weed management in Paddy	1	off	5	4	9	17	8	25	34
Soil Sc.	PF	Pest & disease management in Paddy	1	Off	2	2	4	23	0	23	27
Soil Sc.	PF	INM in Paddy	1	On	7	9	16	25	8	33	49
Soil Sc.	PF	Micro-nutrient deficiency symptom in crops	1	Off	12	7	19	3	5	8	27
Soil Sc.	PF	Use of Green seeker & LCC in Paddy	1	Off	1	2	3	8	11	19	22

Soil Sc.	PF	Weed management in DSR Paddy	1	On	13	17	30	12	5	17	47
Soil Sc.	PF	Identification of nutrient deficiency & toxicity in Paddy	1	On	4	8	12	8	6	14	26
Soil Sc.	PF	Importance of Micro-nutrient in Crop	1	On	1	7	8	10	0	10	18
Soil Sc.	PF	Maintenance of soil health by prevention of residue burning	1	off	2	3	5	11	22	33	38
Soil Sc.	PF	CRM using waste decomposer & Mushroom production	1	off	2	3	5	6	11	17	29
Soil Sc.	PF	Establishment of nutritional garden in Rabi	1	off	1	4	5	14	9	23	29
Soil Sc.	PF	Importance of protein sources in our diet	1	on	2	2	4	19	7	26	38
Soil Sc.	PF	Irrigation scheduling in rabi crop	1	on	5	4	9	9	6	15	24
Soil Sc.	PF	package of practice for Potato cultivation	1	on	6	4	10	7	1	8	18
Soil Sc.	PF	Use of Biofertilizer in Lentil cultivation	1	off	12	16	28	11	6	17	45
Soil Sc.	PF	fertilizer of irrigation management in rabi crops	1	off	7	32	39	13	8	21	60
Soil Sc.	PF	Importance of natural farming in maintenance of soil health & sustainable agriculture	1	on	0	22	22	0	0	0	22
Soil Sc.	PF	Role of biofertilizers in improving nutrient	1	on	2	6	8	24	3	27	35
Soil Sc.	PF	Nutrient rich food sources for human	1	off	7	8	15	12	6	18	33
Soil Sc.	PF	INM in rabi crops	1	off	3	13	16	9	6	15	33
Soil Sc.	PF	natural farming	1	on	7	3	10	10	4	14	24
Soil Sc.	PF	Components to improve soil health	1	on	4	3	7	8	1	9	16

Soil Sc.	PF	Importance of micro nutrients in rabi crops	1	On	7	13	20	3	2	5	25
Soil Sc.	PF	Nutrient rich food sources for human	1	On	1	23	24	0	0	0	24
Soil Sc.	PF	INM in rabi crops	1	On	2	3	5	25	11	36	41
Soil Sc.	PF	natural farming	1	On	5	10	15	4	3	7	22
Soil Sc.	PF	Components to improve soil health	1	Off	1	2	3	10	2	12	15
Soil Sc.	RY	Deficiency and toxicity symptoms of nutrient in paddy	1	off	4	5	9	16	8	24	33
Soil Sc.	RY	Sowing techniques of Arhar, Groundnut & maize	1	on	7	10	17	7	16	23	40
Soil Sc.	RY	Millets: Small grains, Big nutriton, better lives	5	on	0	43	43	0	7	7	50
Soil Sc.	RY	Role of Millets in Balanced nutrition	1	on	2	5	7	14	15	29	36
Soil Sc.	RY	Role of Natural farming for sustainable crop production	1	Off	2	31	33	0	0	0	33
Soil Sc.	RY	maintenance of nutrient proportion in Balanced diet	1	on	0	23	23	0	0	0	23
Soil Sc.	EF	Development of nutritional garden	1		0	0	0	17	3	20	20

## H) Vocational training programmes for Rural Youth

### Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self-employed after training			Number of persons employed elsewhere
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Vermicompost producer	Vermicompost producer	Seed production techniques on Moong	10	30	0	30				
Seed production	Seed production	Quality seed production of kharif crop	5	31	0	31				
Seed production	Seed production	Seed production techniques of Berseem	5	36	0	5				
Bee Keeper	Bee Keeper	Bee Keeper	10	24	6	30	Apiary	5	5	-
Bee Keeper	Bee Keeper	Bee Keeper	10	23	7	30	Apiary	4	4	-
Water Conservation	Water Conservation	Water conservation in Raised Bed Maize	4	28	2	30				
Repair & maintenance of Farm machineries	Repair & maintenance of Farm machineries	Operation, repair and maintenance of sowing implements	5	30	20	50				
Dairy	Dairy Management	Dairy farm management	4	28	12	40	Dairy	21	21	-
Goat Farming	Goat Framing	Goat farm management	4	38	2	40	Goatry	15	15	-
Dairy	Nutritional management	Commercial dairy farming	5	28	12	40	Dairy	21	21	-
Goat Farming	Goat Framing	Selection of bred for Dairy cattle	5	19	16	35	Goatry	15	15	-

Poultry	Poultry management	Disease management of Dairy cattle	4	40	10	50	Dairy	31	31	-
Dairy	Nutritional management	Nutritional management of Dairy cattle	5	13	24	37	Goatry	13	13	-
Dairy	Dairy management	Dairy farm management	5	18	6	24	Poultry	17	17	-
Mal-nutrition eradication	Mal-nutrition eradication	Millets: Small grains, big nutrition, better lives	5	0	50	50	Dairy	16	16	-

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

**I) Sponsored Training Programmes**

Sl.	Title	Thematic area	Month	Duration (days)	Client PF /R Y/ EF	No. of courses	No. of Participants										Sponsoring Agency	
							Male			Female			Total					
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total		
1	Dairy management	Dairy management	January 2024	1	PF	1											60	ATMA, Jehanabad
2	Scientific & practical tips on Millets	ICM	May 2024	1	PF	1											40	ATMA, Jehanabad
3	Scientific cultivation of Millets	ICM	June 2024	1	PF	1											80	Smile project Phase III
4	Scientist farmers interaction programme on Millets	ICM	July 2024	1	EF	1											50	ATMA, Jehanabad

5	Importance of Fodder crop for Dairy cattle in Kharif season	Fodder management	July 2024	1	PF	1										60	ATM A, Jehanabad
6	Bee Keeper	Bee Keeper	Nov. 2024	10	RY	1										30	BSD M
7	Vermicompost Producer	Vermicompost Producer	October 2024	10	RY	1										30	BSD M
8	Machines for crop residue management & rabi crop sowing	Crop residue management	1	Oct. 2024	1	EF										96	DAO, Jehanabad
9	Disease management of Livestock	Disease management	1	Nov. 2024	1	PF										212	ATM A, Jehanabad





Kisan Mela participated	8	431	124	680	112	0	10	5	15	2	0	570	125	695	114	0
Field Day	16	1485	219	1704	180	0	0	0	0	0	0	1485	219	1704	180	0
Kisan Ghosthi	6	740	149	889	98	0	4	2	6	0	0	744	151	895	98	0
Exhibition organized	-	-	-	--	-	-	-	-	-	-	-	-	-	-	-	-
Participation in exhibition	8	890	245	1135	123	0	22	8	30	4	0	912	253	1165	127	0
Film Show	46	540	73	613	52	0	0	0	0	0	0	540	73	613	52	0
Method Demonstrations	7	85	6	91	9	0	0	0	0	0	0	85	6	91	9	0
Farmers Seminar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Workshop																
Group discussion	12	10	0	10	0	0	0	0	0	0	0	10	0	10	0	0
Lectures delivered as resource persons	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Advisory Services	2983			2983										2983		
Scientific visit to farmers field	312	447	52	499	45	0	0	0	0	0	0	447	52	499	45	0
Farmers visit to KVK	2370	3100	706	3806	215	0	0	0	0	0	0	3100	706	3806	215	0
Diagnostic visits	98	47	21	53	30	0	0	0	0	0	0	47	21	53	30	0
Exposure visits	21	630	211	841	66	0	0	0	0	0	0	630	211	841	66	0
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Soil health Camp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Animal Health Camp participation	3	85	17	102	16	0	0	0	0	0	0	85	17	102	16	0
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Special day celebration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sankalp Se Siddhi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Swatchta Hi Sewa	34	1750	526	2276	228	0	0	0	0	0	0	1750	526	2276	228	0
Celebration of important date	12	435	215	650	55	0	0	0	0	0	0	435	215	650	55	0



National Unity Day (31st Oct.)										
World Science Day (10th Nov.)										
National Education Day (11th Nov.)										
Fisheries day (21 Nov)										
National Constitution Day (26th Nov.)										
World Soil Day (5th Dec.)	1	22	23	45	0	0	0	22	23	45
Kisan Diwas (23 <sup>rd</sup> Dec.)										
Any other day										

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

Sl.	Date of event	Name of Event/Programme	Interaction of Hon'ble PM/AM	Participants			
				Farmers	Staffs	VIP/Others	Total
1	28.02.2024	PM Kisan Samman Yojna	Hon'ble PM	50	11	0	61
2	18.06.2024	PM kisan Samman Nidhi	Hon'ble PM	103	11	0	114
3	11.08.2024	Awareness programme on 109 varieties	Hon'ble PM	68	11	0	79
4	15.08.2024	Nationwide Launch of National Pest Surveillance System (NPSS)	Hon'ble AM	62	2	0	64
5	16.07.2024	ICAR foundation day	Hon'ble AM	58	11	0	69

### 3.5 A. PRODUCTION AND SUPPLY OF TECHNOLOGICAL PRODUCTS

#### A. Seed production at seed village

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farmers to whom seed provided			
					SC	ST	Other	Total
Paddy	R. Sweta, MTU-7029	250	750000	30	4	-	26	30
Wheat	HD-2967, DBW-187, Sriram-303	480	1300000	40	6	-	34	40
Lentil	HUL-57	30	180000	15	3	-	12	15
Potato	Pokhraj	250	500000	16	2	-	14	16
Total		1010	2730000	101	15	-	86	101

#### B. Seed production at KVK farm

Type of seed produced	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
				SC	ST	Other	Total
Cereals	Wheat (HD-2967)	123		55	0	190	245
	Paddy (R. Sweta)	150		120	0	320	440
Oil seed							

Pulses							
Green Manure							
Commercial crop							
Vegetables							
Fodder							
Spices							
Fruits							
Forest crop							
Ornamental/flower							
Medicinal							
<b>Grand Total</b>							

### C. Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
<b>Vegetable seedlings</b>		15000	9000	120	0	60	180
Cauliflower	NBH Saritha	6000	3600	50	0	20	80
Cabbage	HYMAHY139,	3000	1800	20	0	20	20
Tomato							
Brinjal							
Chilli	G4	6000	3600	50	0	20	80
Onion							
Others							
<b>Commercial seedlings</b>							
Mulberry							
Sugarcane,							
Sweet Potato							
Turmeric							
Zinger							
Others							
<b>Fruits seedlings</b>							
Mango							
Guava							
Lime							
Papaya							
Banana							
<b>Ornamental plants</b>							
Marigold							
Annual chrysanthemum							
Tuberose							
Others							
<b>Medicinal and Aromatic Plantation</b>							
<b>Tuber Elephant yams</b>							

Spices							
<b>Grand Total</b>							

**D. Forest species**

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

**E. Fodder crops saplings**

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
<b>Napier Grass</b>	Hybrid Napier	2000 sapling	6000.00	6	0	34	40

**F. Production of Bio-Products**

Name of product	Quantity (Kg)	Value (Rs.)	No. of Farmers benefitted			
			SC	ST	Other	Total
<b>Bio-fertilizers</b>						
<b>Bio-food (Spirulina etc)</b>						
<b>Bio-pesticide</b>						
<b>Bio-agents (Trichocard etc)</b>						
<b>Worms (earthworm, silk worms etc)</b>	10	2000	0	0	1	1
<b>Bio-fungicide</b>						
<b>Others, please specify (Mushroom spawn, Culture Mineral Mixture, Coir pith compost, Cow dung, Cow urine)</b>						
<b>Total</b>						

**G. Production of livestock & fisheries materials**

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted			
				SC	ST	Other	Total
<b>Dairy animals</b>							
Cows							
Buffaloes							
Calves							
Others (Pl. specify)							

<b>Small ruminants</b>							
Sheep							
Goat							
Other, please specify							
<b>Poultry</b>							
Broilers							
Layers							
Duals (broiler and layer)							
Japanese Quail							
Turkey							
Emu							
Ducks							
Others (Pl. specify)							
<b>Piggery</b>							
Piglet							
Hog							
Others (Pl. specify)							
<b>Rabbitry</b>							
<b>Fisheries</b>							
Indian carp							
Exotic carp							
Mixed carp							
Fish fingerlings							
Spawn							
Others (Pl. specify)							
Grand Total							

## H. SOIL & WATER TESTING

### a. Details of equipment available in Soil and Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
1		

### b. Details of samples analyzed so far: Nil

Total number of soil samples analyzed till now		
Through mini soil testing kit/labs	Through soil testing laboratory	Total
-	-	-

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

Sl.	Analysis	No. of Samples analyzed	No. of Villages covered	No. of Farmers benefitted	Amount realized (Rs.)
1.	Soil	210	10	210	-
2.	Water	30	6	30	-



### 3. Financial Progress

Fund received	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2016-17	-	-	-	
2017-18	-	-	-	
2018-19	-	-	-	
2019	-	-	-	
2020	-	-	-	
2021	-	-	-	
2022	-	-	-	
2024	-	-	-	
2024	-	-	-	

### 4. Infrastructure Development

Item	Progress
Seed processing unit	-
Seed storage structure	-
Nursery	-
Animal sector	-
Mushroom / other enterprises	-
Others	<i>Farm Machinerics equipment shed under CRA</i>

### 3.6 HUMAN RESOURCES DEVELOPMENT, PUBLICATIONS, AWARDS & RECOGNITION

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

S.No	Item	Details of publication bibliographic form (Authors name, year, title, volume, issue, page no, journal name)	NASS Rating	
			>6	<6
1	Research paper	Khan, Anam, <b>Wajid Hasan*</b> , Kalpana Bisht, Rashid Mumtaz Khan, Dipanwita Chattopadhyay, Jayeeta Majumder, Ilman Khan, S. Mohamed Rabeek, and Salman Ahmad. 2024. "Insect Phototaxis Mechanisms Innovations in Pest Control Strategies and Applications". <i>Uttar Pradesh Journal of Zoology</i> 45(20):169-80. (NAAS Rating (2025) =5.24)  <a href="https://mbimph.com/index.php/UPJOZ/article/view/4574">https://mbimph.com/index.php/UPJOZ/article/view/4574</a> <a href="https://doi.org/10.56557/upjoz/2024/v45i204574">https://doi.org/10.56557/upjoz/2024/v45i204574</a>		5.24
2		Dr. <b>Wajid Hasan</b> , Dileep Kumar NT, Dr. Rashid Mumtaz Khan, Basavaraj N Hadimani, Himanshu Sekhar Behera, Dr. Giressha D. 2024. Decoding the secrets of insect life: Pheromones, communication, and population dynamics.		5.20

	<p><i>International Journal of Research in Agronomy</i>, 7(8S):500-506. (<b>NAAS Rating (2025) =5.20</b>)</p> <p><a href="https://doi.org/10.33545/2618060X.2024.v7.i8Sg.1309">https://doi.org/10.33545/2618060X.2024.v7.i8Sg.1309</a>  <a href="https://www.agronomyjournals.com/special-issue/2024.v7.i8S.1309">https://www.agronomyjournals.com/special-issue/2024.v7.i8S.1309</a></p>		
3	<p><b>Wajid Hasan</b>, Rashid Mumtaz Khan, Milind D Joshi, Mohd Ashaq, Shakuli Kashyap and Asutosh Kumar Srivastava 2024. Emerging threat: Reviewing the impact and management of South American tomato pinworm (<i>Phthorimaea absoluta</i>). <i>International Journal of Advanced Biochemistry Research</i>, 8(8): 464-469. <a href="https://doi.org/10.33545/26174693.2024.v8.i8f.1781">https://doi.org/10.33545/26174693.2024.v8.i8f.1781</a> (<b>NAAS Rating (2025) =5.29</b>)</p>		5.29
4	<p>Joshi, Milind D., Pooja Gupta, Gaurav, Asutosh Kumar Srivastava, Shikha Jaggi, <b>Wajid Hasan*</b> and Sheetanshu Gupta. 2024. Role of Microorganisms in Shaping Insect-Plant Interactions. <i>Uttar Pradesh Journal of Zoology</i> 45 (16):502-2 <a href="https://doi.org/10.56557/upjoz/2024/v45i164332">https://doi.org/10.56557/upjoz/2024/v45i164332</a> (<b>NAAS Rating (2025) =5.24</b>)</p> <p><a href="https://mbimph.com/index.php/UPJOZ/article/download/4332/4500/7145">https://mbimph.com/index.php/UPJOZ/article/download/4332/4500/7145</a></p>		5.24
5	<p>Joshi, Milind D., Alok Kumar Srivastava, Mohd Ashaq, Shikha Jaggi, Pooja Gupta, <b>Wajid Hasan*</b> and Sheetanshu Gupta. 2024. "Biocontrol Agents and Plant Protection". <i>Uttar Pradesh Journal of Zoology</i> 45 (16):109-3 <a href="https://doi.org/10.56557/upjoz/2024/v45i164292">https://doi.org/10.56557/upjoz/2024/v45i164292</a> (<b>NAAS Rating (2025) =5.24</b>)</p>		5.24
6	<p><b>Wajid Hasan</b>, Sheetanshu Gupta, Reena Roy, Kh. Chandrakumar Sing, Lamneithem Hangshing, Chitrasen Lairenjam, Upinder Kaur, Shamik Dey, Ali R A Moursy, Kuldeep Yadav and Dharendra Kumar 2024. Transforming Agriculture: Harnessing Modern Intelligent Tools and Cybernetics for Innovation. <i>Afr.J.Bio.Sc.</i> 6(9):4528-4546. <a href="https://doi.org/10.33472/AFJBS.6.9.2024.4528-4546">https://doi.org/10.33472/AFJBS.6.9.2024.4528-4546</a></p> <p><a href="https://www.afjbs.com/uploads/paper/93beabfb6f0c02a7a2b6b6cca653ffb1.pdf">https://www.afjbs.com/uploads/paper/93beabfb6f0c02a7a2b6b6cca653ffb1.pdf</a>  <a href="https://www.scopus.com/sourceid/21101106407">https://www.scopus.com/sourceid/21101106407</a></p>		
7	<p><b>Hasan, Wajid</b>, Ramesha N M, Archana B R, Gurrala Saivamsireddy, Sagarika Choudhuri, Shradha Parmar, Kurru Charitha, and Shivam Kumar Pandey. 2024. "Advancing RNAi-Based Strategies for Eco-Friendly and Targeted Insect Pest Management in Sustainable Agriculture". <i>Journal of Experimental Agriculture International (American Journal of Experimental Agriculture)</i> 46 (6):833-63. <a href="https://doi.org/10.9734/jeai/2024/v46i62537">https://doi.org/10.9734/jeai/2024/v46i62537</a> <b>NAAS Rating (2025) 5.14</b></p>		5.14
8	<p>Showket Ahmad Dar, <b>Wajid Hasan</b>, Yendrembam K. Devi, Ivana Tlak Gajger &amp; James John 2024. <i>Enzyme-mediated adaptation of herbivorous insects to host phytochemicals. Phytochemistry Reviews.</i> <a href="https://doi.org/10.1007/s11101-024-09933-z">https://doi.org/10.1007/s11101-024-09933-z</a> <b>NAAS Rating (2025) 13.30</b></p> <p><a href="https://link.springer.com/article/10.1007/s11101-024-09933-z">https://link.springer.com/article/10.1007/s11101-024-09933-z</a></p>	13.30	

**B. Details of Other Publications**

Particulars	Details of publication bibliographic form	No of copies published (if any)	No of copies distributed (if any)
Abstracts in Seminar/conference/symposia published	<p><b>1.Kumar, J.</b>, Prasad, M., Hasan, W., Sohane, R.K. and Kumar, A. (2024). Assessment of Different Methods of Irrigation on Productivity of Tomato In Medium Land. Souvenir cum Abstracts/Proceeding Book ISBN 978-93-340-7696-7, 6th International Conference on “Cutting-Edge Solutions in Science- Agriculture, Technology, Engineering and Humanities” August 24-26, 2024: 560-562</p> <p>2. Kumar, Abhay, Malik, M.S., Sabnam, Swati, Prasad, M., Mahto, D., Hasan, W., <b>Kumar, J.</b>, Kumari, V., Lakra, T.S. and Kumar, R. (2024). Innovative approach for enhancing the farmers' income through Agroforestry, Souvenir cum Abstracts/Proceeding Book ISBN 978-93-340-7696-7, 6th International Conference on “Cutting-Edge Solutions in Science- Agriculture, Technology, Engineering and Humanities” August 24-26, 2024: 536</p> <p>3. Kumari, V., Mahapatra, P., Prasad,M., Mahto, D., Hasan, W., <b>Kumar, J.</b> and Kumar, A. (2024). Protective Role of Silicon In Plants Under Stress Conditions. Souvenir cum Abstracts/Proceeding Book ISBN 978-93-340-7696-7, 6th International Conference on “Cutting-Edge Solutions in Science- Agriculture, Technology, Engineering and Humanities” August 24-26, 2024: 565</p>		
Books published	<p><b>1. Wajid Hasan</b>, Mohd Ashaq, G J Abhishek, Ningaraj Belagalla, Tapas Kumar Hembram, Masarat Bashir and Omais Bin Ayoub 2024. Sericulture, Principals, Practice Biotechnology and Breeding Techniques. ISBN: 978-93-58991-14-7. 428 Pages. Published by: Elite Publishing House, New Delhi. <a href="http://www.elitepublishing.in">www.elitepublishing.in</a>.</p> <p><b>2. Wajid Hasan</b>, Arshad Ali Haider, Sheetanshu Gupta, Awanindra Kumar Tiwari, and Shivangi S. Kansara 2024 Global Climate Stress: Smart Plant Protection and Management. Published by: Red’shine Publication Pvt. Ltd. Lunawada, India. ISBN: 978-93-93239-79-2. Pages 386. DOI: <a href="https://doi.org/10.25215/9393239797">https://doi.org/10.25215/9393239797</a></p> <p><b>3.</b> Singh, R., <b>Kumar, J.</b>, Shukla, P., Pachlasiya, N. and Agnihotri, N. (2024). Introductory Soil and Water Conservation Engineering. ND Global Pub. House, Ayodhya, ISBN 978-81-972418-3-3: 251 PP.</p> <p><b>4.</b> Prasad, M., <b>Kumar, J.</b>, Kumar, M., Mahto, D. and Hasa W. (2024). Krishak Sandesh, August 2024, KVK, Jehanabad, issue 50, year 12: 46 pages</p>	-	-
Book chapter published			

Popular articles published	<ol style="list-style-type: none"> <li>1. <b>Wajid Hasan</b> 2024. Biopesticides: An Eco-Friendly and Sustainable Alternative to Synthetic Pesticides. Global Agri Vision 2024, 38(5):247-255. e-ISSN 2583-9683, May 2024,</li> <li>2. <b>Wajid Hasan</b> 2024. The Emergence of Biopesticides as a Key Component of Integrated Pest Management Systems. Global Agri Vision 2024, 24(8):155-160. ISSN: 2583-9683 June 2024 <a href="http://www.globalagrivision.in/">http://www.globalagrivision.in/</a></li> <li>3. Vikas Yadav and <b>Wajid Hasan</b> 2024. Exploring the Economic Potential of Insects in Food and Feed Production. The Agriculture Magazine, 4(2): 105-108. ISSN 2583-1755. <a href="https://theagricultureonline.com/">https://theagricultureonline.com/</a></li> <li>4. <b>Kumar, J.</b>, Prasad, M. and Sohane, R.K. (2024). Drip (Tapak) Sinchai Pranali: Sinchai ki Aadhunik Taknik, Krishak sandesh, September 2024, KVK, Arwal ISSN 2320-6950: 25-27 <b>Kumar, J.</b>, Prasad, M., Sohane, R.K., Mandal, B.K. and Kumar, Abhay. (2024). Drip Sinchai Pranali keliye Dripper ka Chayan, Krishak sandesh, Year 12 issue 49, July 2024, KVK, Aurangabad, ISSN 2320-6950: 14-15.</li> <li>5. <b>Kumar, J.</b> and Kumar, A. (2024). Apkendri pump ki trutiyanevamNirakaran, Krishak Sandesh, Year 12 issue 50, August 2024, KVK, Jehanabad, ISSN 2320-6950: 21-22.</li> <li>6. <b>Kumar, J.</b>, Prasad, M., Sohane, R.K., Kumar, M. and Kumari, V. (2024). BagwaniFaslon me Mulching, Krishak Sandesh, Year 12 issue 50, August 2024, KVK, Jehanabad, ISSN 2320-6950: 30-31.</li> <li>7. Kumar, A., Kumar, M., Kumar, V. and <b>Kumar, J.</b> (2024). Sprinkler, Foggerevam Mister Hitek Sinchai Vidhiyon ka MahatvevamUpyog, Krishak Sandesh, Year 12 issue 50, August 2024, KVK, Jehanabad, ISSN 2320-6950: 34-35.</li> <li>8. Kumar, P., Singh, S.K., Sharda, K. and <b>Kumar, J.</b> (2024). Gramin Kshetron me Rojgar keAwsaron se RukegaPalayan, Krishak Sandesh, Year 12 issue 50, August 2024, KVK, Jehanabad, ISSN 2320-6950: 43-44.</li> <li>9. Kumar, M. and <b>Kumar, J.</b> (2024). Mungfali ki Kheti, Krishak Sandesh, Year 12 issue 50, August 2024, KVK, Jehanabad, ISSN 2320-6950: 45-46.</li> <li>10. Dr. Manoj Kuamr, SMS (Agronomy)Vermicompost ki Taiji Laav, Krishak Sandesh, Nov. 2024 Ank-53 Varsh-12, KVK, Lakhisarai</li> </ol>	-	-
Success story published			
TOTAL			

**C. Details of Extension Publications**

Particulars	Details of publication (Totle, authors name, organization)	No of copies published (if any)	No of copies distributed (if any)
Extension Bulletins published			
Agro-advisory bulletins	-	-	-
Extension folders/leaflet/pamphlets			
Technical reports	Annual report, Extension Council report	10	10
News letter	-	-	-
Electronic Publication (CD/DVD etc)	-	-	-
<b>TOTAL</b>			

**D. Details of HRD programmes undergone by KVK personnel**

Sl. No.	Name of KVK personnel	designation	Name of course/training program attended	Date	Duration	Organizer/Venue
1.	Ms. Varsha Kumari	SMS (Soil Sc.)	“Training cum exposure visit on Natural farming for the master trainers”	14-18 May 2024	5	MANAGE, hyderabad
2.	Dr. Dinesh Mahto	SMS (Animal Sc.)	Summer school on “Current development in dairy science & Technology”	July 2024	21	SGIT & BASU, Patna
3	Ms. Varsha Kumari	SMS (Soil Sc.)	Training programme on Innovation in Digital Extension	16-20 Dec. 2024	5	ICAR-NAARM, Hyderabad
4	Dr. Dinesh Mahto	SMS (Animal Sc.)	Exposure visit cum training programme of Vermicomposting culture “Jai Gopal” under SAP	17-18.May 2024	2	IVRI, Izatnagar, Bareilly, U.P.
5	Er. Jeetendra Kumar	SMS (Agril. Engg.)	Solar powered irrigation system	09-11 Sept. 2024	3	BISA, Jabalpur

**E. Awards/Recognition****Institutional Award received by KVK**

Sl. No.	Name of KVK	Name of the Award	Value (In Amount/kind)	Achievement	Conferring Authority
1					

**Award received by KVK Scientists**

Sl.	Name of KVK personnel	Name of the Award	Value (In Amount/kind)	Achievement	Conferring Authority

**Award received by Farmers**

Sl.	Name of KVK	Name of the Farmer	Name of the Award	Address	Contact No.	Value (In Amount/ kind)	Achievement	Conferring Authority
1	Jehana bad	Sri Dhanesh Kumar	Certificate of participation	Vill- Chappa na, Block Ghosi-804406	9065689513	Certificate and Memento	Outstanding performance in agriculture	ICAR-RCER, Patna
2	Jehana bad	Sri Mohan Prasad Verma	Certificate of participation	Vill- Korma, Block Ghosi-804406	9801664700	Certificate and Memento	Outstanding performance in agriculture	ICAR-RCER, Patna

**3.7. TECHNOLOGY DEVELOPMENT****A. Give details of Innovative Methodology/Process/Product or Innovative Technology developed by KVK**

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

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

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

Give details of by the farmer (if Any)

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

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

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

#### 4. IMPACT

##### A. Impact of KVK activities/ large-scale adoption of technology

Name of specific area	Brief details of the area	No. of farmers benefitted	Horizontal spread (in area/no.)	% Adoption	Impact of the technology in subjective terms	Impact of the technology in objective terms	Change in income (Rs.)	
							Before (Rs./Unit)	After (Rs./Unit)
Bee keeping	Apiculture	135	121	25	Income generation by Honey production and enhance pollination	25	0	24000
Poultry farm worker	Polutry	42	36	74	High demand of Poultry meat	74	10000	180000
Dairy farmer (entrepreneurship)	Dairy	112	84	70	Self employment by sale of milk and dairy products	70	5000	20000
Animal Health Worker	Dairy	32	18	80	Self employment	80	-	60000
Mushroom Grower	Mushroom	70	62	65	Self employment	65	0	6000
Goatry	Goatry	42	34	60	Self employment by sale of kid and goat meat	60	0	7000
Value addition in paddy straw	CRM	21	46	12	Fodder and mushroom production	12	0	6000
Zero tillage	Farm Machinery	580	210	40	Soil health conservation and reduction in cost of cultivation	40	0	5250
Vermicomposting	Vermicompost	85	32	30	Improved Soil health and organic cultivation	30	800	3210

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

##### B. Details of entrepreneurship/startup developed by KVK

Name of the entrepreneur/ Name of the enterprise/firm	IFS, Poultry, fish, paddy, wheat, Lentil, Mushroom, Plantation, Drip irrigation
Registered address of the entrepreneur/firm	Mr. Amit Kumar, Village; Daharpur, Ghosi, jehanabad
Year of establishment	2022
Type of Enterprise	IFS Model
Registration details	-

No. of members associated	05
Technical components of the enterprise (with commodity)	Fishery, poultry, crop cultivation along with drip irrigation
Annual Income/revenue of the enterprise	670000/-
Role of KVK/Technology backstopping (quantitative data support)	Training, Technology Demonstration, Linkage with line department
Period/Timeline of the entrepreneurship development	3 years
Economic and Social status of entrepreneur before and after the enterprise	Earlier he earned average income 1.8 lakh per year and after adopting IFS model his income increased upto 6.2 lakh per year
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Market link with Patna, Gaya and local Market of Jehanabad, Model is well economically viable He worked with his family member
Major achievements	Financial and Social status improved
Major constrains	Disease in Poultry, Scarcity of Labour
Images/Imp Documents	



## C. Success stories/Case studies, if any

### 1. Personal information

1.	Name of the farmer/ entrepreneur: <b>Ravindra Prasad</b>
2.	Date of Birth: 01.01.1971
3.	Education: B.A. (Hons.)
4.	Farming Experience/ Experience in enterprise: IFS (Pond, Poultry, Cow, Agriculture)
5.	Cell no./ e-mail: 7044881451
6.	Full address: Daharpur, Ghosi, (PS+PO), Jehanabad
7.	Professional membership: P.M. Kisan/ SHG (Farmer club/SHG/ATMA/etc.)
8.	Major achievement of the farmers: Paddy, Wheat, Lentil, Mustard, Mohogani, Nimbu, Banana, Mango
9.	Awards received: No

### 2. Professional Information

1.	Title of the success story/case study : Integrated farming system
2.	Situation analysis/Problem statement (What prompted this initiative? What was the problem that needed to be addressed?) : SWOT analysis after survey/ PRA
3.	Plan, Implement and Support/KVK Intervention(s): (Describe what systems of extension have done to address the challenge. What

	technology/ technical knowledge being used? How were different agencies engaged in or consulted in the extension process? - Who, What, How): Through Training, FLD and OFT
4.	Details of Practices followed by the farmer: Paddy, Wheat, Lentil, Mustard, Mohogani, Nimbu, Banana, Mango
5.	Results/ Output (economical/ social/ etc.) : Paddy production- 100 q, Wheat production- 50q, Lentil production- 1 q, Mustard- production 1 q (Key results/ Insight/ Interesting fact- initial, intermediate, or long-term outcome)
6.	Impact/ Outcome: (Determine the HIGHEST level of impact the program had on individuals, families, groups and/or society- Provide a short summary of the actual change (on knowledge, attitude, skills, practice, or policy) that took place. Provide quantitative measures, where possible and use simple graphs or tables to illustrate a point.) (50–100 words) <i>Dairy, Poultry and training</i>
7.	Future plans: Dairy farm with 50 animals
8.	Supporting Images

### 3. Economic Information of Ravindra Prasad

Enterprise	Gross Income (annual)	Net income	Cost-Benefit ratio
Paddy	200000	150000	3.0
Wheat	100000	70000	2.33
Mustard	20000	16000	3.8
Lentil	20000	15000	3.5
Fisheries	100000	70000	2.38
Poultry	200000	110000	1.9
Dairy	50000	26000	1.9
Total	<b>690000</b>	<b>457000</b>	

## 5. LINKAGES

### 5.1. Functional linkage with different organizations

Sl.No	Name of organization	Nature of linkage
1	DM Office	Krishi Task force meeting
2	DAO	Diagnostic survey, joint implementation and training
3	DHO	Participation in meetings and training.
4	ATMA	Training, Demonstration and Refinement of technology
5	Bank	Coordination for Farmers club and SHG formation & functioning.
6	COMFED	Marketing & Training.
7	Bihar Veterinary College, Patna	Infertility camp/ training
8	Magadh Dairy, Gaya	Animal health camp along with vaccination, Training of AI workers, PashuMela, Crop Residue Management
9	NABARD	Farmer's club formation, FPO
10	BAU, Sabour	Training, workshop, administration, financial, kisanmela, seed production etc.
11	Bihar Govt.	Crop Resilient Agriculture Programme, Centre of Excellence for Millets Value Chain
12	BAMETI, Patna	Domain and RPL training

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

#### a) Programmes for infrastructure development

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
CRA Programme	Crop Resilient Agriculture	Kharif & Rabi Season	Bihar Govt.	8555000
Centre of Excellence for Millets Value Chain	MLT	Summer and Kharif	Bihar Govt.	1000000

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

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Aam Mahtosva 2024	Awareness	14-16 June, 2024	Govt. of bihar	
Awareness on scientific cultivation on Millets (Smile project Phase-III)	Awareness	08.06.2024	Govt. of bihar	
Visit of Krishi Gyan Vahan from BASU, Patna (Vill- Kako, Serthua, Makhdumpur, Modanganj)	Awareness	June 2024	BASU, Patna	
Parthenium awareness week	Awareness	16-22 Aug. 2024	ICAR	
Awareness programme of benefits of Millets cultivation on raised bed	Awareness	02.08.2024	Govt. of bihar	
Awareness programme on machine for Millet's production	Awareness	06.08.2024	Govt. of bihar	
Ek Ped Maa Ke Naam	Awareness	21.08.2024	ICAR	
National Nutrition week/ Month celebration	Awareness	01-30.09.2024	ICAR	
Swachhta hi Sewa pakhwara	Awareness	17.09.2024	ICAR	

Kharif Maha Abhiyan	Awareness	11.06.2024 25-26.06.2024	ATMA, Jehanabad	
Vaccination and animal health camp	Animal Vaccination	12.04.2024 05.08.2024 17.08.2024	Govt. of bihar	
Technology week celebration	Celebration of Tech. week	23-28.09.2024	ICAR	
Prayogshala se khet tak	Awareness through BAU You tube channel	02.12.2023	BAU, Sabour	
Kisan Mela participation (Sonepur) and exhibition of CRA stall	Kisan Mela	14.12.2023	CRA	
Vaccination of H.S.+B.C. vaccination	Vaccination	04-28.12.2023	Bihar Govt.	
Participation in Kisan gosthi on modern agricultural machineries	Awareness	17.12.2023	CRA	
Participation in Kisan yantrikaran mela	Awareness	08-09.12.2023	CRA	
Participation in launching of 4 <sup>th</sup> agriculture Road Map at Patna	Krishi Road Map	18.10.2023	Bihar Govt.	
Kisano ki baat Krishi Mantri ke Sath	Awareness	13.10.2023	BAU, Sabour	
Animal Health camp cum vaccination of goats	Animal Health camp	20.10.2023	DAHO, Jehanabad	
Attended training on safe use of Glyphosate as master trainer conducted by NIPHM, Hyderabad	Scientist training	11.10.2023	NIPHM, Hyderabad	
Sawal jabab, progshala se khet tak	Awareness through BAU You tube channel	01.11.2023	BAU, Sabour	
Kisan Gosthi on Kharif DSR	Awareness	01.11.2023	CRA	
Animal Health Camp participation	Animal Health camp	12.04.2024	DAHO, Jehanabad	
Kisan Mela participation at KVK, Arwal	Kisan Mela	14.03.2024	KVK, Arwal	
Participation of Infertility camp organized by line dept.	Infertility camp	11.03.2024	DAHO, Jehanabad	
Kisan Gosthi on Garma crop	Kisan Gosthi	28.02.2024	Line Dept.	
Kisan Mela Agro Bihar, Patna	Kisan Mela	10.02.2024	Bihar Govt.	
Participation in Kisan mela at Khunti, Ranchi organized by ICAR, NISA, Ranchi	Kisan Mela	03-05.02.2024	Khunti, Ranchi organized by ICAR, NISA, Ranchi	
Participaition in Kisan Mela at BAU, sabour	Kisan Mela	17-19.02.2024	BAU, sabour	
Participation in workshop on the topic Agri clinic Agri business centre programme organized by NABARD	Kisan Mela	22.02.2024	NABARD	
Participation in Krishi Yantrikaran Mela with KVK exhibiton at Krishi Bhawan, Jehanabad	Kisan Yantrikaran Mela	30-31.01.2024	Krishi Bhawan, Jehanabad	

## 6. PERFORMANCE INDICATORS

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

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq.mt)	Details of production			Amount (Rs.)		Remarks
				Variety/ breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Vermicompost	2018	41.8	Jai Gopal	Vermi-compost	60	-	49700	
2.	Azolla	2020	9.3	Azolla Carolina	Azolla	75 kg/month	-	0	
3.	Dairy	2022	27.87	Sahiwal cross	Milk	2689.2 Litre	-	123705	
4.	Net House	2010	12	-	Seedlings	15000	-	9000	
5.	Mushroom	2018	60.04	Oyster/ Button	Mushroom	12	-	1400	
6.	Goat unit	2025	14.23	Black Bengal		3	-		New unit
7.	Poultry	2025	7.16	Vanraja		15	-		New unit

### 6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Paddy	1-7 July, 2024	1-10 Dec., 2024	4.5	R. Sweta	F/S	85.76	210580.0	445952.0	
	1-7 July, 2024	1-10 Dec., 2024	4.5	R. Sweta	C/S	69.4		326180.0	
Wheat	10-20 Dec. 2023	15-20 April, 2024	4.5	HD-2967	F/S	115.65	185280.0	647640.0	
Potato	28.11.2023	15.03.2024	0.4	BARI	T/L	16.5	20600.0	49400.0	
				UCIMAP	T/L	15.0		54000.0	

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

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

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Cow	Sahiwal cross	Milk	2	105500	123405	Functional
2.	Goat	Black Bengal	Kids	3	27450	-	Started
3.	Poultry	Vanraja	Eggs	15	750	-	Started

**6.5. Performance of Automatic Weather Station in KVK:**

Date of establishment	Source of funding i.e. IMD/ICAR/Others	Present status of functioning
2010	ICAR	Not functional

**6.6. Utilization of hostel facilities**

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
September 2024	7	120	-
Total:	7	120	

(For whole of the year)

**6.7 Utilization of staff quarters**

- Whether staff quarters have been completed: Yes
- No. of staff quarters:6
- Date of completion:
- Occupancy details: 3 occupied and 3 vacant

Months	Q I	Q II	Q III	Q IV	Q V	Q VI
Jan to Dec. 2024	✓					

**7. FINANCIAL PERFORMANCE****7.1. Details of KVK Bank accounts**

Bank account	Name of the bank	Location	Account Number
KVK Main A/c	PNB	Kako, Jehanabad	2321000100338968
KVK Main A/c	SBI	BVC, Patna	11435538045
KVK R/F A/c	PNB	Kako, Jehanabad	2321000100338977
KVK R/F A/c	SBI	BVC, Patna	30777637395
CFLD in Pulse	SBI	SBI, Kako	42183581628
CFLD in Oilseed	SBI	SBI, Kako	42183583557

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

Item	Released by ICAR		Expenditure		Unspent balance as on -
	Kharif	Rabi	Kharif	Rabi	
Mustard	-	5.67500	-	1.27000	4.40500

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April 2024
	Kharif	Rabi	Kharif	Rabi	

**7.4. Utilization of KVK funds during the year 1<sup>st</sup> April 2024 to 15 January 2025 (Not audited)**

Sl. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	Pay & Allowances	12269500	12269500	12164838
2	Traveling allowances			
3	Contingencies			
A	Stationary telephone, postage and other charges POL, repair of vehicle, tractor and equipments	434000		401265
B	Training of farmers			
C	Training material			
D	Training of EF			
E	Training of RY	271000		
F	FLD	120000		101305
G	OFT	65000		42520
H	Extension activities/ Exhibiton, Kisan Mela etc.	40000		
I	Maintenance of building	30000	846350	29330
J	Swachhta Expenditure	40000		32900
<b>TOTAL (A)</b>		<b>13269500</b>		
<b>B. Non-Recurring Contingencies</b>				
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
<b>TOTAL (B)</b>		<b>-</b>	<b>-</b>	<b>-</b>
<b>C. REVOLVING FUND</b>				441995
<b>GRAND TOTAL (A+B+C)</b>		<b>13269500</b>	<b>13115850</b>	<b>13214153</b>

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year (Kind + cash)
2021	6816907.17	863036.00	296734.00	7979567.17
2022	7979567.17	451319.00	355248.00	8075638.17
2023	8075638.17	945479.17	424367.00	9146355.17
2024	9146355.17	957479.00	441995.00	11261839.17

**7.6. (i) Number of SHGs formed by KVKs – 8**

Sl. No.	Name of SHG	Village	Block	No. Of farmer attached
1	Kiran SHG	Nurpur	Modanganj	12
2	Aditya SHG	Nurpur	Modanganj	15
3	Aradhya SHG	Nurpur	Modanganj	11
4	Adarsh SHG	Nurpur	Modanganj	13
5	Puja Mahila Mandal	Godsur	Ghosi	10
6	Kamal Swawn Shayata Samuh	Korma	Ghosi	10
7	Saraswati Jeevika Swayam Sahayata	Ranipur	Kako	12
8	Ganga Jeevika Swayam Sahayata	Ranipur	Kako	12

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

- Vegetable production.
- Goatry.
- Mushroom production.
- Agarbatti Making
- Decorative items making by use of Paddy straw
- Dairy
- Poultry
- Herbal pesticides & dhoopbatti
- Apiary
- Pickles making

(iii) Details of marketing channels created for the SHGs

- Mahila Bank,
- Gramin Bank,
- Local market Patna, Gaya, Nalanda,
- Magadh dairy Co-operative Gaya
- Agricultural Institutions
- FPO

#### 7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With department	line	With ATMA	With both
Kharif Maha Abhiyan	01	Kharif				✓
Rabi Maha Abhiyan	01	Rabi				✓
Animal health Camp	01	Rabi	✓			
Kharif workshop	01	Kharif				✓
Rabi workshop	01	Rabi				✓
Soil health awareness programme	01	Rabi				✓
Farmers scientist interaction programme	01	Kharif/Rabi			✓	
Extension functionaries Training	01	Rabi	✓			
Krishi Yantrikaran Mela	02	Rabi				✓

#### 7.8 Revenue generation

Sl.No.	Name of Head	Income (Rs.)	Sponsoring agency
1.	BSDM	3,00,000.00	BAMETI, Patna
2.	BSDM	20000.00	BAMETI, Patna
3.	BSDM	20000.00	BAMETI
4	BSDM	52,613.00	BAMETI
5	BSDM	71,720.00	BAMETI
6	BSDM	49,240.00	BAMETI
7	BSDM	75,900.00	BAMETI

## 7.9 Resource Generation

Sl. No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
1	Sale of Seed	Sale of Seed	KVK	13,45,838.00	-
2	Sale of Non seed	Sale of Non seed	KVK		-
3	Training Hall and Farmer's Hostel	RAWE programme	KVK	5000.00	-
4	Sale of paddy straw bales	CRA	KVK	40,000.00	-
5	Soil Testing	Soil Testing	KVK		-
6	Plant sale and Orchard	Plant sale and Orchard	KVK	68,200.00	-
7	Bio-pesticide	Bio-pesticide	KVK		-
8	Biochar	Biochar	KVK		-
9	Vermicompost	Vermicompost	KVK	59,036.00	-
10	Fish seed	Fish seed	KVK		-
11	Mushroom Spawn	Mushroom Spawn	KVK		-
12	Scrap	Scrap	-	-	-

## 8. MISCELLANEOUS INFORMATION

### 8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
False smut	paddy	October	150	10%	510
Wilt disease	lentil	December	500	10-15%	300
Sheath Blight	Paddy	Sept- Oct.	110	10%	200

### 8.2. Prevalent diseases in Livestock/Fishery

Name of the disease	Species affected	Date of outbreak	Number of death/ Morbidity rate (%)	Number of animals vaccinated	Preventive measures taken in pond (in ha)
LSD	Hiefer & Cattle	2023-24	30%	No	-

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

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

### 8.6 Details of 'Pre-Rabi Campaign' Programme

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

### 8.7 . Vikisit Viksit Bharat Sanklap Yatra: NIL

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

### 8.8. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK

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

Date of Visit	Name of Hon'ble Minister	Name of Ministry	Salient points in his/ her observation (2-3 bulleted points)
17.01.2024	Dr. Pragya Bhaduria, Scientist, ATARI, Zone-IV, Patna	ATARI, Zone-IV, Patna	KVK actively involved in diversified activities. Good linkage with Line Department & farmers. May chose some key area for wide impact in the region. Staff are self motivated & hardworking
07.03.2024	Sri Uday Kumar, Jail Superitendant	Kako Jail Jehanabad	Interaction with farmers awareness programme conducted by KVK, Jehanabad
09.04.2024	Sri Ajay Kumar, AGM, FCI, Gaya	FCI, Gaya	Crop cutting experiment of ZT Chickpea & Raised Bed Maize
25.09.2024	Dr. Jaba Jagdish	ICRISAT, Hyderabad	Monitoring of trials, interaction with farmers, BSc students

### 8.10 Details of Scientific Advisory Committee (SAC) Meetings

Date	No of participants	Total statutory members present (state line department)	Salient recommendations	Action Taken	If not, State reason
17.01.2024	32	11	<b>अनुशंसा</b>	<b>कार्यवाही</b>	
			पिछले दो साल के ऑन फार्म ट्रायल के परिणामों को बुलेटफार्म में सहायगी विभागों एवं किसानों के बीच प्रचार-प्रसार किया जाये।	ऑन फार्म ट्रायल के परिणामों को संकलित कर संबंधित विभागों एवं किसानों के बीच प्रचार-प्रसार हेतु बिहार कृषि वि" वविद्यालय, सबौर को भेजा गया।	
			नारी पोषण वाटिका में फलदार एवं औषधीय पौधे लगाये जायें।	मौसमी फलों में अमरूद एवं सब्जियों में टमाटर, गाजर तथा म"रूम लगाये गये। जिसमें 42 लाभार्थी थे। पोषण वाटिका किट में सब्जियों के बीज 130 किसानों को उपलब्ध कराया गया।	
			जलवायु अनुकूल कृषि कार्यक्रम में म"रूम उत्पादन तकनीक (आयस्टर, बटन व मिल्की प्रभेदों) पर प्र"िक्षण व प्रत्यक्षण किये जायें।	<ul style="list-style-type: none"> <li>• किसानों के लिए म"रूम उत्पादन पर 05 प्र"िक्षण दिये गये जिसमें कुल 151 लाभार्थी शामिल हुए।</li> <li>• ग्रामीण युवाओं के लिए प्रशिक्षण के अंतर्गत 04 प्रशिक्षण में कुल 105 लाभार्थी शामिल हुए।</li> <li>• प्रसार कार्यकर्ताओं के लिए 01 प्र"िक्षण में कुल 88 लाभार्थियों का प्र"िक्षण कराया गया। तथा मशरूम प्रत्यक्षण हेतु कुल 50 किसानों के बीच मशरूम किट वितरण किया गया।</li> </ul>	
			कृषि में प्रयोग होने वाली म"रीनों के कस्टम हायरिंग प्रयोग पर प्रशिक्षण आयोजित की जाये। जीविका दीदीयों को इसमें सम्मिलित किया जाये।	02 प्रशिक्षण आयोजित किया गया जिसमें 61 प्र"िक्षणार्थियों ने भाग लिया।	
			आगामी 3 माह का प्र"िक्षण कैलेंडर तैयार किया जाये एवं संबंधित विभागों का भेजा जाये।	प्रशिक्षण कैलेंडर तैयार कर संबंधित विभागों को भेजा गया।	
			ऑन फार्म ट्रायल एवं प्रथम पंक्ति प्रत्यक्षण एवं जलवायु अनुकूल कृषि कार्यक्रम आदि कार्यक्रम में मिट्टी जाँच करवाई जाये।	ऑन फार्म ट्रायल-30, अग्रिम पंक्ति प्रत्यक्षण कार्यक्रम में-35, जलवायु अनुकूल कृषि कार्यक्रम में-214 मिट्टी जाँच कृषि अनुसंधान संस्थान, पटना में कराया गया एवं मृदा स्वास्थ्य कार्ड वितरण किया गया।	
			प्रत्येक माह दूरस्थ किसानों के लिए 01 से 02 ऑनलाईन प्र"िक्षण का आयोजन किया जाये।	विडियो कान्फ्रेंसिंग के माध्यम से 04 प्रशिक्षण कराया गया।	
			रबी फसलों (2022) के लिए आव"यक उपादान की व्यवस्था जल्दी से जल्दी की जाये।	रबी फसलों के बीज एवं आवश्यक उपादान किसानों को अग्रिम में उपलब्ध कराया गया।	
			प्रत्येक माह के अंतिम सप्ताह में केन्द्र के सभी कर्मचारियों के साथ मासिक बैठक किया जाये एवं इसका प्रतिवेदन क्षेत्रीय निदे"क, कृषि अनुसंधान	मासिक बैठक नियमित रूप से किया जा रहा है जिसकी प्रति क्षेत्रीय निदेशक, कृषि अनुसंधान संस्थान, पटना एवं निदेशक प्रसार शिक्षा, बिहार कृषि विश्वविद्यालय सबौर को भेजा जा रहा है।	

			संस्थान, पटना को भेजा जाये।	
			वैज्ञानिक सलाहकार समिति के अनु"ंसाओं को सभी संबंधित विभागों को जानकारी हेतु प्रेषित किया जाये।	वैज्ञानिक सलाहकार समिति बैठक की अनु"ंसाएँ 03.11.2022 को संबंधित विभागों को भेजा गया।
			जलवायु अनुकूल कृषि कार्यक्रम के तहत रबी मौसम में लेजर लैंड लेवलर म"ंीन का प्रयोग किसानों के खेत पर कराना है तथा प्र"ंीक्षण कराना है।	लेजर लैंड लेवलर का प्रयोग गरमा 2022 में 104 एकड़ क्षेत्र में तथा गरमा 2023 में 76 एकड़ में किसानों के खेत पर किया गया एवं 5 प्रशिक्षण आयोजित किया गया जिसमें 146 कृषकों ने भाग लिया।
			समय पर जलवायु अनुकूल कृषि कार्यक्रम अंतर्गत विभिन्न प्रत्यक्षण के लिए मशीनों के रख रखाव एवं मरम्मती ससमय करवा लेना है।	प्रत्यक्षण के लिए कृषि मशीनों का रखरखाव एवं मरम्मती समयानुसार किया जा रहा है।
			पशुपालन में प्रथम पंक्ति प्रत्यक्षण (थ्स्क) बरसीम घास की जगह जई फसल पर करना है।	अग्रिम पंक्ति प्रत्यक्षण के माध्यम से हरा चारा जई बीज प्रभेद: केन्ट, 01 हे0 के लिए 31 किसानों को उपलब्ध कराया गया।
			बकरियों के लोकल ब्लैक बंगाल प्रजाति का प्रचार प्रसार ज्यादा करना है।	अग्रिम पंक्ति प्रत्यक्षण के माध्यम से बकरियों के ब्लैक बंगाल प्रजाति को बढ़ावा दिया जा रहा है। जिसके अंतर्गत ब्लैक बंगाल प्रजाति (08 बकरी तथा 01 बकरा) 08 किसानों को उपलब्ध कराया गया।
			अगली वैज्ञानिक सलाहकार समिति की बैठक से अनुसूचित जाति उपयोजना मद का अलग से जानकारी देना है।	अनुपालन किया गया। एस0सी.एस.पी. मद के तहत 08 प्र"ंीक्षण जिसमें 298 प्र"ंीक्षणार्थियों ने भाग लिया तथा 08 प्रत्यक्षण कराया गया, जिसमें 332 लाभार्थियों ने भाग लिया।
			प्रगतिशील किसानों द्वारा सी.आर. ए. गांवों के अलावा अन्य गांवों में खेती से संबंधित म"ंीनों को मुहैया कराने का आग्रह किया गया जिसमें डॉ0 आर.एन. सिंह, अध्यक्ष महोदय ने बताया किसी सी.आर.ए. के गांवों का कार्य पूरा होने के बाद मशीन को दूसरे अन्य गांवों को दिया जा सकता है।	मशीनों की संख्या कम होने के कारण फिलहाल सी.आर.ए. गांवों को आच्छादित किया जा रहा है। मांग के अनुसार मशीन दिया जा रहा है।
			अगली बैठक से आत्मा जहानाबाद से प्राप्त राशि के उपयोगिता का भी ब्यौरा प्रदर्शित करना है।	अनुपालन किया गया। अल्प अवधि शोध/प्रत्यक्षण के लिए 75000 रुपये उपलब्ध कराया गया। पूरी राशि शोध कार्य में खर्च किया गया।
			सूक्ष्म सिंचाई प्रणाली पर प्रशिक्षण आयोजित करना है।	कुल 5 प्रशिक्षण किया गया जिसमें 213 कृषकों/प्रसार कार्यकर्त्ताओं ने भाग लिया।
			प्राकृतिक कृषि (नेचुरल फार्मिंग) पर किसानों को प्रशिक्षण देना है तथा अपने केन्द्र पर भी प्रत्यक्षण करना है।	केन्द्र प्रक्षेत्र पर प्राकृतिक कृषि का प्रत्यक्षण किया गया है तथा 8 प्रशिक्षण कराया गया जिसमें 381 किसानों ने भाग लिया।

\*Salient recommendations of SAC in bullet points

## Details of other meeting related to ATARI

Date	Type of Meeting	Agenda	Representative from ATARI
17.12.2024	CFLD	Financial issue & progress of CFLD programme	Director, ATARI, Patna
27.12.2024	Technology Certification	Technology Certification	Director, ATARI, Patna
13.12.2024	Review	Review of KVK	Director, ATARI, Patna
18.12.2024	Stack Holder meeting	Stack Holder meeting	Director, ATARI, Patna
05.12.2024		Meeting on Non-Productive Cattle	Director, ATARI, Patna
21.11.2024	Kisan Sarathi Meeting	Kisan Sarathi Meeting	Kisan Sarathi team
12.11.2024	CFLD	CFLD Oilseed and Pulses implementation & Fund utilization	Director, ATARI, Patna

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

Type of attachment	No of student trained	No of days stayed
RAWE	7	120

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

## 1. Centre for Excellence for Millets Value Chain Project

## Capacity Building:

Particulars	Awareness Programme		Capacity Building (Training)	
	No. of Programme	No. of Beneficiary	No. of Programme	No. of Beneficiary
Millet Promotion	14	1030	9	236

## Germplasm Evaluation (Summer 2024):

Project	Crop	Germplasm	Variety	Total
Centre for Excellence for Millets Value Chain	Finger millet	6	7	42
	Proso Millets	7	5	35
	<b>Total</b>	13	12	77

## Germplasm Evaluation (Kharif 2024):

Project	Crop	Germplasm	Released Variety	Local control	Total
Centre for Excellence for Millets Value Chain	Finger Millet	24	4	2	30
	Foxtail millet	23	5	2	30
	Barnyard millet	18	5	2	25
	Proso millet	18	5	2	25
	Little millet	18	5	2	25
	Kodo millet	23	5	2	30
	<b>Total</b>	124	29	12	165

## 2. Eradication of Malnutrition Programme Project

S. No.	Name of activities	Number of activities	Participates			Total Number/Area
			Children	Male	Female	
1.	<b>Trainings</b>	10	0	68	245	313
2.	Nutrition garden unit developed	37	0	4	33	4480 sq. m Production- 5287 kg
3.	Health Camp Organized	1	0	2	43	45 No.
4.	Awareness program	5	0	49	210	259
5.	FLD	14	0	110	166	276
6.	Other activities Animal Health camp	2	0	25	74	99 No.

### Intervention taken towards Malnutrition Eradication (Kharif 2024)

S.No.	Intervention	Demonstration	Number	Result
1.	Seed	Kitchen garden kit	37	Dietary diversity achieved
2.	Seed	Paddy (R. Sweta)	20	
3.	Seed	Finger millet (Birs Madua-3)	12	
4.	Back yard Poultry	Poultry chicks (Kadakhnath)	10	Average body weight 1.2 kg/bird after 6 months of age (2% Mortality)
5.	Sprayer	Sprayer	01	Use for insecticide application
6.	Milk production and infertility control	Mineral Mixture	10	4 cows out of 10 conceived after feeding of mineral mixture
7.	Sorted semen for cow (inseminated)	Sahiwal	06	2 cows conceived

### Intervention taken towards Malnutrition Eradication (Rabi 2024-25)

Sl. No	Crop/ enterprises	Technology demonstrated	Area in ha./ unit	No. of Demo.
1	Duck	Fish cum Duck farming	115 duckling	20
2	Veg. Pea	Use of vermicompost and bio- fertilizer	0.5 ha	12
3	Veg. Seed Kit	Nutritional gardening	50 No.	50
4	Vegetable seedling	Tomato, Cape Gooseberry, Brinjal, Chilli, Cauliflower, cabbage, Marigold	50 No.	50
5	Fruit Plants	Mango, Guava	25 No.	25
6	Onion seed & garlic clove	Kitchen Garden	10 No.	10

### On Station Trial:

**Title: Assessment of Maize yield potential in Bihar**

**Name of programme- On station trials (OST)**

**Location- KVK, Gandhar, Jehanabad**

**No. of variety-2**

**Sowing time- 1<sup>st</sup> and 2<sup>nd</sup> week of June, 2024**

**Source- DOR, BAU, Sabour**

**Spacing- Row to row 60 cm, Plant to plant- 20 cm**

**Sowing Method- raised Bed**

**Fertilizer application- As per recommended dose of fertilizer (NPK- 120:60:40 kg/ha) and Zinc- 25kg/ha**

**Data to be recorded:**

1. Initial plant stand (10 DAS) in 5 random sample (4 m sq. each)
2. Final plant stand at harvest in 5 random sample (4 m. sq. each)
3. Days to 50% tasseling (On plot basis)
4. Days to 50% silking (on plot basis)
5. Days to 75% brown husk (On plot basis)
6. Diseases and insect pest incidence score
7. Plant height (cm) in 5 random sample (4 m. sq. each)
8. Grain yield (kg/ha) at 15% moisture

Data format for OST kharif Maize, 2024

Date of sowing: 15.06.2024

Plot size- 500 m. sq.

Table: Growth parameter, yield contributing character, yield and occurrence of insect pest and diseases as affected by assessment of maize yield potential in Jehanabad

Sl. No.	Initial plant population (No.)	Final plant population (No.)	Final plant ht. (cm)	Days to 50% tasseling	Days to 50% silking	Days to 75% brown husk	Plot yield (kg)	Yield (q/ha)	% occurrence of disease	% occurrence of pest
V1	2040	1916	240.5	70	81	90	179	71.5	Nil	15
V2	2065	1958	260.3	75	85	95	191	76.4	Nil	09



## 11 PROJECT-WISE REPORTING (Applicable for KVKs identified under the given project): NA

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

Season	Village Covered (no.)	Block Covered (no.)	District Covered (No.)	Respondent (no.)	Trial Name	Area covered (ha)	Number of Crop	Technology Options	Variety name	Duration (Days)	Sowing date	Harvesting date	Days of Maturity	Grain Yield (q/ha)	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B/C R

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

#### a. Achievements of physical output under TSP

Sl.	Activities	Physical Achievement	
		No. of Trainings/Demos	No. of beneficiaries
1)	Trainings		
a.	Farmer		
b.	Women		
c.	Rural Youths		
d.	Extension Personnel		
2)	OFT	No. of OFTs	No. of beneficiaries
3)	FLD	No. of FLDs	No. of beneficiaries
4)	Mobile agro- advisory to farmers	No. of advisory	No. of beneficiaries
5)	Other activities		
a.	Participants in extension activities (No.)		
b.	Production of seed (q)		
c.	Production of Planting material (No. in lakh)		
d.	Production of Livestock strains (No. in lakh)		
e.	Production of fingerlings (No. in lakh)		
f.	Testing of Soil, water, plant, manures samples (Nos.)		
g.	Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)		
h.	No. of other programmes oraginsed (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)		

b. Fund received under TSP in 2024-25 (Rs. In lakh):

c. Achievements of physical outcome under TSP during 2024

Sl. No.	Description	Unit	Achievements
1	Change in family income	%	
2	Change in family consumption level	%	
3	Change in availability of agricultural implements/ tools etc.	No. per household	

d. Location and Beneficiary Details during 2024

District	Sub-district	No. of Village covered	Name of village(s) covered	ST population benefitted (No.)		
				M	F	T

### 11.3. Details of Scheduled Caste Sub Plan (SCSP)

Sl.	Activities	Physical Achievement	
		No. of Trainings/Demos	No. of beneficiaries
1)	Trainings		
a.	Farmer	8	241
b.	Women	3	125
c.	Rural Youths	5	195
d.	Extension Personnel	0	0
2)	OFT	No. of OFTs	No. of beneficiaries
		4	47
3)	FLD	No. of FLDs	No. of beneficiaries
		24	991
4)	Mobile agro- advisory to farmers	No. of advisory	No. of beneficiaries
		65	65
5)	Other activities		
a.	Participants in extension activities (No.)		
b.	Production of seed (q)		0
c.	Production of Planting material (No. in lakh)		0
d.	Production of Livestock strains (No. in lakh)		0
e.	Production of fingerlings (No. in lakh)		0
FTSP	Testing of Soil, water, plant, manures samples (Nos.)		0

#### 11.4. NICRA (Technology Demonstration component) : NA

Name of KVK	NRM		Crop production		Livestock & Fisheries			Capacity Building		Extension Activities	
	Demonstrations	Area (ha)	Demonstrations	Area (ha)	Demonstrations	Area (ha)	No. of animals	No of Courses	Farmers	No. of programmes	Farmers
<b>Zone IV</b>											

Overall achievements

#### Basic Information

KVKs Name	Districts data				NICRA Adopted village					
	RF (mm) district		Temperature °C		Dry spell/ drought			Intensive rain >60 mm	Flood	
	Normal	Received	Max.	Min.	> 10 days	> 15 days	> 20 days		Water depth (cm)	Duration (days)

#### Performances of demonstration of in-situ moisture conservation technologies

FST type	Crop / season (name)	Technology demonstrated	No. of farmers	Area (ha)/ Unit	Yield (q/ha)	Economics of demonstration (Rs/ha)		
						Gross Cost	Net Return	BCR

#### Performances of water harvesting and recycling for supplemental irrigation

FST type	Crop / season (name)	Technology demonstrated	No. of farmers	Area (ha)/ Unit	Yield (q/ha)	Economics of demonstration (Rs/ha)		
						Gross Cost	Net Return	BCR

#### Performance of ZTD in various crops

FST type	Crop / season (name)	Technology demonstrated	No. of	Area	Yield	Economics of






#### Performance of different crop diversification in NICRA villages

FST type	Crop / season (name)	Technology demonstrated	No. of farmers	Area (ha)	Yield (q/ha)	Economics of demonstration (Rs/ha)		
						Gross Cost	Net Return	BCR

#### Performance of other demonstration

FST type	Crop / season (name)	Technology demonstrated	No. of farmers	Area (ha)/ Unit	Yield (q/ha)	Economics of demonstration (Rs/ha)		
						Gross Cost	Net Return	BCR

#### Performance of different fodder demonstration in community lands

FST type	Crop / season (name)	Technology demonstrated	No. of farmers	Area (ha)/ Unit	Yield (q/ha)	Economics of demonstration (Rs/ha)		
						Gross Cost	Net Return	BCR

#### Performance of improved fodder

FST type	Crop / season (name)	Technology demonstrated	No. of farmers	Area (ha)/ Unit	Yield (q/ha)	Economics of demonstration (Rs/ha)		
						Gross Cost	Net Return	BCR

#### Performance of various vaccination camps organized

FST	Type of animal and Month	Technology demonstrated	No. of farmers covered	No. of animal covered			
					Less 1 yr calf	Heifer	Adult



**Performance of livestock demonstration in NICRA adopted villages (poultry)**

FST type	Birds / season (variety/breed)	Technology demonstrated	No. of farmers	No. of birds/ unit	Body wt. (Kg / bird)	Economics of demonstration (Rs/ha)		
						Gross Cost	Net Return	BCR

**Performance of improved shelters for poultry and dairy animals**

FST	Technology demonstrated	No. of farmers	Demo. Unit size (No.)	Survival rate		% Increase in survival	Economics (Rs. /ha)				
				Demo	Local		Gross Cost	Gross Return	Net Return	BCR	

**INSTITUTIONAL INTERVENTION**

Name Of KVK	Seed bank		Fodder bank	
	Crop with variety	Quantity in (q)	Fodder crop with variety	Quantity in (q)

**Revenue generated through Custom Hiring Centres and VCRMC in KVKs**

Name of KVK	Revenue Generated (Rs.)	
	From Custom Hiring Centres (2022-23)	Total under VCRMC

**Extension Activities**

Name of the activity	Number of Programmes	No. of beneficiaries		
		Male	Female	Total

**Soil Health Card prepared and distributed**

KVK	No. of soil samples collected	No. of samples analysed	SHC issued	No. of farmers benefitted



**Table: Custom Hiring of Farm-Implement**

Name of farm implement/equipment	No. of farmers used Implement	Area covered by Farm Implement	Farm Implement used (In Hours)	Revenue generated by Farm Implement (Rs.)	Expenditure incurred on repairing (Rs.)

**Table: Village wise VCRMC**

Village name	VCRMC Constitution date	VCRMC members (no.)		Meetings organized by VCRMC (no.)	Date of VCRMC meeting	Name of Secretary	Name of President	Major decision taken
		M	F					

**Attachments:** Good quality Photograph

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

Name of State	Name of district	No. of blocks allocated	No. of FPOs registered as CBBO	Average no of members per FPO	No. of FPO received Management cost	No. of FPO received Equity Grant	Tech. backstop ping provided to no. of FPOs	No. of training programme organized for FPOs for Technology backstop ping as CBBO	Training received by FPO members (Y/N) If yes then major area of training	Assistance to no. of FPOs in economic activities	Is Business plan prepared for FPOs as CBBOs	Is Business plan prepared for FPOs as without CBBOs	No. Of FPOs doing business
<b>Bihar</b>	Jehanabad	7	7	7	Yes	7	0	0	No	Yes	No	Yes	6

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

S.No	Name of the FPO	Address of FPO	Registration No and Date	Proposed Activity	Commodity Identified	Total No. of BOM Members	Total no of farmers attached	Financial position (Rupees in lakh)	Success indicator
1	Praytan Agro FPCL	Jehanabad	U01409BR2021PTC054323	Pulse, Mushroom	Pulse, Mustard Oil	10	402	35.0	-
2	Barabar	Mukhdum	U01100BR2021PTC	Pulse,	Pulse,	10	584	41.0	-

	Agro FPCL	pur	053363	Mushroom	Mustard Oil				
3	Morhar FPCL	Ratni faridpur	U01100BR2022PTC058867	Lentils, Black Gram	Lentil, Wheat, Rice	10	325	18.0	-
4	Bijuka Krishi Fed Producer Company Limited	Kako	U01110BR2023PTC061403	Oilseeds, Gram	Oilseeds, Gram	5	314	116.38	-
5	Hulasganj Krishi Fed Producer Company Limited	Hulasganj	U01114BR2023PTC062394	Oilseeds, Gram	Oilseeds, Gram	5	320	27.935	-
6	Sarvasiddhanta Krishi Fed Producer Company Limited	Ghosi	U01100BR2023PTC061587	Oilseeds, Gram	Oilseeds, Gram	5	337	6.92	-
7	Modanganj Krishi Fed Producer Company Limited	Modanganj	U01100BR2023PTC061741	Oilseeds, Gram	Oilseeds, Gram	5	312	2.345	-

## 11.6. Nutri-Sensitive Agricultural Resources and Innovation (NARI)

### a. Overall achievement

No. of Nutri smart village developed	Total Area covered	Total No of OFT organized	Total No. of FLD organized	No. of training/capacity development programme	Total No. of farmers/beneficiaries	No of Extension programmes	Total No. of farmers/beneficiaries
5	1 ha	-	2	13	279	5	210

### b. Details of OFT/FLD

<b>OFT</b>	-	-
Nutritional Garden	-	-
Bio-fortified Crops	-	-
Value addition (in no. of Unit or no. of Enterprise)	-	-
Other Enterprises (in no. of Unit or no. of Enterprise)	-	-
	<b>Area (ha/ no. of Unit/Enterprise)</b>	<b>No. of farmers/beneficiaries</b>
<b>FLD</b>		
Nutritional Garden	<b>1 ha</b>	<b>100</b>
Bio-fortified Crops	<b>5 ha</b>	<b>12</b>
Value addition (in no. of Unit or no. of Enterprise)	-	-
Other Enterprises (in no. of Unit or no. of Enterprise)	-	-

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

Sl.	Name of Nutri-Smart Village	Type of Nutrition Garden	Number	Area (sqm)	No. of beneficiaries
1.	Safepur	Kitchen Garden	20	2000	20
2.	Keshopur	Kitchen Garden	20	2000	20
3.	Khalispur	Kitchen Garden	20	2000	20
4.	Baramsarai	Kitchen Garden	20	2000	20
5.	Chotkimath	Kitchen Garden	20	2000	20
TOTAL			100	10000	100

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

Name of Nutri-Smart Village	Season	Activity (OFT/FLD)	Category of crop (cereal/pulses/oilseed/fruits & veg./others)	Name of Crop	Variety	Area (ha)	No. of beneficiaries
Korma	Rabi	FLD	cereal	Wheat	DBW-187		
Godsur	Rabi	FLD	cereal	Wheat	DBW		
Maulabigha	Rabi	FLD	cereal	Wheat	DBW		

**e. Details of Value addition in Nutri-Smart village: NIL**

Name of Nutri Smart Village	Name of Crop/veg./ fruits/ other	Name of Value-added product	Activity (OFT/FLD)	No. of farmers/beneficiaries

**f. Training programmes in Nutri-Smart village**

Name of Nutri Smart Village	Area of Training	No of courses	No. of beneficiaries
Safepur	Kitchen gardening, IPM in vegetables	2	40
Keshopur	Kitchen gardening, IPM in vegetables, Scientific cultivation of vegetable	3	62
Baramsarai	Kitchen gardening, IPM in vegetables, Scientific cultivation of vegetable	3	54
Chotkimath	Kitchen gardening, IPM in vegetables, Post harvest management in vegetable, Food processing, Scientific cultivation of vegetable, INM in vegetable	8	170
Khalishpur	Kitchen gardening, Scientific cultivation of vegetable	2	42

**g. Extension activities under NARI Project**

Name of Nutri-Smart Village	Title of Activity	No. of activities	No. of beneficiaries
Safepur	Training/ awareness programme	1	31
Keshopur	Training/ awareness programme	1	37
Baramsarai	Training/ awareness programme	1	25
Chotkimath	Training/ awareness programme	1	39
Khalishpur	Training/ awareness programme	1	32







**Demonstration Information**

KVK/ Farmer wise information of demonstration conducted till date		
<b>Name of State</b>	Bihar	
<b>Name of KVK/Farmer where demonstration conducted</b>	Jehanabad	
<b>Address of Farmer with contact detail</b>	-	
<b>Agro Climatic Zone of KVK/Village of farmer</b>	III(B)	
<b>Cropping patter of KVK plot/ Farmer plot</b>	Rice- Potato	
<b>Farming Situation of the Selected KVK/Farmer</b>	-	
	<b>Latitude (N)</b>	<b>Longitude (E)</b>
	25.219397	85.1286674

Name of Activity	Crop	Variety	Season (Kharif /Rabi/ Summer)	Name of Natural Farming components/Technology demonstrated	Area (ha) in Natural farming practice	Detail of farmer practice	Observations Recorded		
							Name of parameter	Performance	
								Without NF practice	With NF practice
1	Paddy	R. Sweta	Kharif	Jeevamrit	0.4	-	Plant height (cm)	-	-
				Bijamrit			Other relevant parameter	-	-
				Meenastra			Yield (q/ha)	35	30.5
							Cost of cultivation (Rs/ha)	40000	42500
							Gross Return (Rs/ha)	80500	70150
							Net Return (Rs/ha)	40500	27650
							B:C Ratio	2.01	1.65
							Soil PH	6.9	5.9
							Soil OC (%)	0.52	0.42
							Soil EC (dS/m)	0.38	0.63
							Available N (Kg/ha)	353.4	413.1
							Available P (Kg/ha)	20.1	18.5
							Available K (Kg/ha)	214.3	207.1
							Soil Microbes (cfu)		
							Any other, specify		

Feedback of farmer
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### Information of Farmer Already Practicing Natural Farming

S. No.	Name of District	Name of Farmer	Name of Village and address with contact No	No. of Indigenous (Desi Cows)	Land Holding (ha)	Normal Crops Grown	No. of Years practicing in Natural Farming	Area (ha) Covered under Natural Farming	Crop Grown under Natural Farming	Natural Farming Technology practicing/ adopted	Observations Recorded		
											Name of parameter	Performance	
												Without NF practice	With NF practice
											Plant height (cm)		
											Other relevant parameter		
											Yield (q/ha)		
											Cost of cultivation (Rs/ha)		
											Gross Return (Rs/ha)		
											Net Return (Rs/ha)		
											B:C Ratio		
											Soil PH		
											Soil OC (%)		
											Soil EC (dS/m)		
											Available N (Kg/ha)		
											Available P (Kg/ha)		
											Available K (Kg/ha)		
											Soil Microbes (cfu)		
											Any other, specify		
Feedback of farmer:													



**Soil Parameter for Non- Demo plot at Farmer's Field**

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

**Financial information: NIL**

Budget Expenditure (Rs. in Rs)				
Name of activity	Number of activities organized	Budget sanction (Rs)	Budget expenditure (Rs)	Total Budget Expenditure (Rs)
Training				
Awareness Programme				
Demonstration				
Miscellaneous				
Total				

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

**11.7 CRA (Climate Resilient Agriculture)**

Technology demonstrated/ interventions	Cropping system	Farming System crop under demonstration			Area under Demonstration (in acre)			No. of farmers under demonstration			Category				Crop Yield (q/ha)			System productivity (q/ha)	Total return (Rs./ha)	Yield obtained under Farmer Practices (q/ha)	Exposure visit (no.)	Number of farmers under exposure
		Kharif	Rabi	Summer	Kharif	Rabi	Summer	Male	Female	Total	SC	ST	OB	Gen	Kharif	Rabi	Summer					
Direct Seeded Rice,	Rice-Wheat-Greengram	Rice	Wheat	Greengram	50	400	260	420	344	764	14	0	250	370	46.8	42.60	7.7	97.1	173606	89.4	04	211

Zero Tillage, Zero Tillage	am																					
Alternative Wet & Dry, Happy Seeder, Zero Tillage	Rice-Wheat-Greengram	Rice	Wheat	Greengram	95	30	260	280	140	420	65	0	150	205	44.4	43.80	7.5	95.7	169080	87.5		
WH&FB, INM, Zero Tillage	Rice-Wheat-Greengram	Rice	Wheat	Greengram	40	80	260	290	130	420	70	0	160	190	46.6	44.60	7.6	98.8	176828	91.1		
Zero Tillage, Raised bed, Zero Tillage	Rice-Maize-Greengram	Rice	Maize	Greengram	50	5	260	210	148	358	52	0	123	183	46.8	90.30	7.5	144.6	266973	121.8		
Zero Tillage, Zero Tillage, Zero Tillage	Rice-Chickpea-Greengram	Rice	Chickpea	Greengram	50	25	260	235	139	374	58	0	145	171	46.8	16.40	7.4	70.6	173403	63.4		
Raised bed, Zero Tillage, Zero Tillage	Maize-Lentil-Greengram	Maize	Lentil	Greengram	70	50	260	245	190	435	68	0	173	194	53.3	17.70	7.9	78.9	204803	71.9		
Zero Tillage, Zero Tillage, Zero Tillage	Millet-Mustard-Greengram	Millet	Mustard	Greengram	65	10	260	185	179	364	54	0	142	168	10.4	12.60	8.2	31.2	119998	23.7		
Zero Tillage, Raised bed, Zero Tillage	Rice-Potato-Greengram	Rice	Potato	Greengram	50	3	260	192	165	357	51	0	136	170	46.8	195.00	8.1	249.9	284664	210.4		
Raised bed, Zero Tillage	Arhar-Greengram	Arhar	-	Greengram	50	0	260	190	170	360	54	0	140	165	19.8	0.00	8	27.8	159746	19.8		
Zero Tillage, Zero Tillage, Zero Tillage	Rice-lentil-Greengram	Rice	Lentil	Greengram	50	50	260	254	149	403	62	0	164	177	46.8	17.7	8.1	72.6	205387	63.6		

**11.8 District Agro Meteorological Unit (DAMU): NA**

S. No	No. of Block agromet advisories send	No. of advisory bulletin published	No. of Farmers Awareness programmes organized	No. of farmers feedback received	No. of farmers received agromet advisory bulletin	No. of publication

**11.9 KSHAMTA: NA**

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

**11.10 Agri-Drone**

S. No.	Name of parameter	Details of parameter
1	Name of the project implementing centre	KVK, Jehanabad
2	No. of Agri Drones Sanctioned	01
3	Amount sanctioned for Agri Drone Purchase (Rs)	10,00,000
4	No. of Agri Drones Purchased by the PIC	01
5	Purchased cost of each Agri Drone (Rs.)	9,75,000
6	Company and Model of Purchased Agri Drone	Iotech World Aviation (Agribote)
7	Name of Agri Drone Pilot and contact No	Er. Jeetendra Kumar-9472362336 Dr. Wajid Hasan-7677466479
8	Target Area for Agri Drone Demonstration (ha) (1 demo = 1 ha area)	250
9	Amount sanctioned for Agri Drone Demonstrations (Rs.)	7,50,000
10	No. of Agri Drone Demonstration organized (ha) upto 15.06.2024	250
11	Amount utilised for Agri Drone Demonstrations (Rs.) 15.06.2024	7,50,000
12	Date and Place of Agri Drone Demonstration organised	Feb-March 2023 (Bijlipur, Tulsipur, Jaikisunbigha, Gangapur and Sahpur)
13	Operation carried out (Pesticide/Weedicide/Nutrient application) in demonstration organised	Nano Urea
14	Number of farmers participated during demonstration	367
15	Advantages of using Agri Drones as observed during the demonstrations	Time and Labour saving with high application efficiency, uniform spray, Protection from health hazard

**Details of Demonstrations under Agri-drone Project**

	Name of district	Date of demonstration	Place of demonstration	Crop Name	No. of demos	Area covered under demos (area in ha)	No of farmers participated
Demos on insecticide spray							
Demos on weedicide spray							
Demos on nutrient spray	Jehanabad	October	Naushera chak	Rice	34	13.6	39
		March	Chappanna	Wheat	40	16.0	42

**11.11 Augmenting Rapeseed- Mustard Production of Tribal Farmers of Jharkhand state for Sustainable Livelihood Security under Scheduled Tribe Component. : NA**

Varieties used	Situations (Irrigated/ Rainfed)	Varieties used in FP	Yield (Kg/ha)		YIOFP (%)	COC (Rs./ha)		GMR (Rs./ha)		ANMR (Rs./ha)	B:C ratio GMR/CoC	
			IP	FP		IP	FP	IP	FP		IP	FP

S.No	Item /Activity	Units	Quantity	No of beneficiaries
1	Training (Capacity building /skill development etc)			
1.1	1-3 days	No.		
2	Frontline demonstration (FLDs) and other demonstrations			
2.1	Area under FLDs	Hectare		
3	Awareness camps, exposure visit etc	No.		
4	Input Distribution			
4.1	Seeds (Field Crops)	Kg		
4.2	Small equipment's (Upto ₹ 2000)	No.		
4.3	Large equipment's (more than ₹2000)	Nos.		
4.4	Fertilizers (NPK)/ Secondary/ Micro Fertilizers	Kg		
4.5	Plant Protection chemicals	Lit.		
5	Distribution of Literature	No.		
6	Kisan Mela	No.		
7	Any other (specify)	No.		
8	<b>Total Budget Utilized</b>	<b>Rs</b>		

## 12. OTHER INFORMATION

### 12.1 Integrated Farming System (IFS): NIL

#### a. Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
1							
2							

#### b. Activities under IFS

Sl. No.	Component Name	No. of KVKs under the Component	No. of Components established	Area (ha)	No. of Activities		No. of farmers benefited	
					Demo	Training	Demo	Training
1.								
2.								

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

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

### 12.3. PPV & FRA Programme

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

#### Details of plant varieties registered

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

**12.4 . a. Observation of Swachhta hi Sewa (2<sup>nd</sup> -31<sup>st</sup> Oct 2024)**

Date/ Duration of Observation	Activities undertaken	No. of Participants			
		Staffs	Farmers	Others	Total
October 2024	<ol style="list-style-type: none"> <li>1. Oath taken by KVK, Staffs</li> <li>2. Cleaning of office corridor &amp; premises, Cleaning &amp; maintenance of stock office</li> <li>3. Swachta awareness programme about crop residue management</li> <li>4. Sanitation and SWM, Cleanliness and sanitation drive with campuses and surrounding including residential colonies, farm and demonstration units</li> <li>5. Use of compost, home waste material and promoted clean and green technologies including organic farming in kitchen garden established in residential area of KVK Farm</li> <li>6. Campaign on recycling of waste water, water harvesting for agriculture</li> <li>7. Cleaning drive in office premises</li> <li>8. Kisan Day celebration</li> <li>9. Swachhata awareness at village level</li> <li>10. Celebration of Hon'ble Vajpaiji Birthday and Awareness camp on cleanliness</li> <li>11. Organise quiz competition on cleanliness</li> <li>12. Awareness on waste management and utilization of organic waste</li> <li>13. Campaign on cleaning of sewerage and water lines, Application of home waste in kitchen garden</li> <li>14. Creating awareness among the farmers for safe disposal of bio-degradable and non bio-degradable waste</li> <li>15. Awareness camp on cleanliness</li> <li>16. Awareness camp on cleanliness and plantation at KVK campus</li> </ol>	11	320	0	320

**b. Observation of Swachta Pakhwada (15 Dec -31<sup>st</sup> Dec 2024)**

Date/ Duration of Observation	Total No of Activities undertaken	No. of Participants			
		Staffs	Farmers	Others	Total
<b>15 Dec -31<sup>st</sup> Dec 2024</b>	13	11	225	7	232

**c. Details of total budget expenditure on Swachh activities including SAP**

S.No	Activities	No of village covered	Total Expenditure (Rs.in Lakhs)
1.	Vermicomposting	<b>Provided Vermi Bed to the farmers</b>	<b>40000</b>
S.No	Activities	Name of activities conducted	
1.	Activities under Swachata Other than vermicomposting	<ol style="list-style-type: none"> <li>1. Oath taken by KVK, Staffs</li> <li>2. Cleaning of office corridor &amp; premises, Cleaning &amp; maintenance of stock office</li> <li>3. Swachta awareness programme about crop residue management</li> <li>4. Sanitation and SWM, Cleanliness and sanitation drive with campuses and surrounding including residential colonies, farm and demonstration units</li> <li>5. Use of compost, home waste material and promoted clean and green technologies including organic farming in kitchen garden established in residential area of KVK Farm</li> <li>6. Campaign on recycling of waste water, water harvesting for agriculture</li> <li>7. Cleaning drive in office premises</li> <li>8. Kisan Day celebration</li> <li>9. Swachhata awareness at village level</li> <li>10. Celebration of Hon'ble Vajpaiji Birthday and Awareness camp on cleanliness</li> <li>11. Organise quiz</li> </ol>	

		<p>competition on cleanliness</p> <p>12. Awareness on waste management and utilization of organic waste</p> <p>13. Campaign on cleaning of sewerage and water lines, Application of home waste in kitchen garden</p> <p>14. Creating awareness among the farmers for safe disposal of bio-degradable and non bio-degradable waste</p> <p>15. Awareness camp on cleanliness</p> <p>Awareness camp on cleanliness and plantation at KVK campus</p>	
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**Good quality action photographs of overall achievements of KVK during the year**



Training programme on Mal nutrition



Swachhta Programme



Distribution of Vermi Bed



CRA crop cutting



Training on Farm machineries



International Yoga Day



Vocational training on Commercial Dairy farming

Crop Residue Management



Swachhhta Programme

PM Samman Nidhi programme



Use of Drone for spraying of Nano urea



CFLD on Oilseed var. Mustard



Mustard sown by ZT machine



Maize sown by Raised Bed method



Potato sown by Raised Bed method



Lentil sown by ZT method



Chickpea sown by ZT method



Wheat sown by ZT method



Training cum exposure visit of Centre for Excellence of Millets



FPO Meeting



Exposure visit of Incharge, Kako Jail



Training programme on Natural farming



Exposure visit at KVK farm under CRA programme



Training programme on IPM



Training for RAWE student from DKAC, Kisanganj



Krishak Swarn Samridhi Saptak celebrated



Seed distributed under CFLD programme



Training programme on Farm machineries



Small Farm Input distribution under SCSP



Awareness programme



Training on Centre of excellence on Millets value chain



Seed production programme at KVK Farm



Exposure visit of Progressive Farmer at KVK



Use of Fertilizer broadcaster machine



Kadaknath Poultry farming



Sheath blight management in paddy



Automatic water drinker bowl



Backyard Poultry Farming



Female calf production Sex Sorted semen



Microbial based Agricultural Waste Management using Vermicomposting





Eradication of Mal-nutrition programme



ATARI Zone -IV Foundation Day



FPO Technical Guideline



Jehanabad, Bihar, India  
62C3+GJ4, Jarasandh Nagar, Bihar 804417, India  
Lat 25.221642°  
Long 85.004837°  
23/08/24 04:19 PM GMT +05:30





Kitchen gardening at farmers field



PM Kisan Samman nidhi programme



Training on Goat farming



Kisan Vahan at KVK, Jehanabad



OFT Animal Sc



Poshan vatika under NARI programme



Poshan vatika under NARI programme



Training programme



Wheat sown by ZT method



Training programme on Goat farming SCSP



Vriksha ropan programme



OST on Maize crop at KVK farm



FPO meet



Gajar Ghans unmulan karyakaram



Rural Youth vocational training





Rural Youth vocational training



National nutritional week celebration



Exposure visit of EF



RPL training on Vermicompost Producer



Swachhta hi sewa programme at village



Crop sown (LTE) at KVK farm



Exhibition under Jal Jivan Hariyali



Fasal Katni at farmer's field



Training programme under Mal Nutrtnn eradication



Mushroom spawn distribution



Production of vegetable (Poshan vatika)



Goat Vaccination Programe



Scientific Advisory Commettee meeting (17 Jan 2024)



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