KRISHI VIGYAN KENDRA

KISHANGANJ

ACTION PLAN

(January to December 2023)

Submitted to

ICAR-ATARI, Patna, (Zone-IV)

BIHAR AGRICULTURAL UNIVERSITY

KRISHI VIGYAN KENDRA
KISHANGANJ (BIHAR)

ACTION PLAN, 2023

GENERAL INFORMATION ABOUT THE KVK

Introduction:

Krishi Vigyan Kendra, Kishanganj is an innovative centre of Indian Council of Agricultural Research (ICAR), Pusa, New Delhi sanctioned vides F. No. 61 /2004-AE-1dated 05.04.2006 under the administrative control of Bihar Agricultural University, Sabour, Bhagalpur, Bihar. This KVK was initially established at Thakurganj of Kishanganj district of Bihar in March, 2006 and then shifted to Hawai Adda Road Khagra, Kishanganj. It is a unique scheme of ICAR oriented to serve the farmers by being the fountain head of agricultural technologies at the district level. KVKs are the agricultural knowledge and resource centers for farmers, farmwomen, rural youth and extension functionaries. The centre has the mandated activities of conducting on farm testing/trials (OFTs) with emerging advances in agricultural research for assessing, refining and demonstration of recently released technology to develop location specific sustainable production system and dedicated to organize vocational training in agriculture and allied fields for practicing farmers, farm women and rural youth. The Kishanganj district is quite suitable for cultivation of Rice, Maize, Jute, Makhana, Pineapple, Banana, Potato, Pulses, Oilseeds and Vegetables crops in different seasons of the year. The productivity enhancement of the field, fiber and horticultural crops and livestock with the concept of integrated farming system module is the major arena of thrust for development of agriculture in the district. KVK Kishanganj is working with following specific mandates and activities:

KVK System: Mandate and Activities

The mandate of KVK is **Technology Assessment** and **Demonstration** for its **Application** and **Capacity Development**.

To implement the mandate effectively, the following activities are envisaged for each KVK

1. On-farm testing to assess the location specificity of agricultural technologies under various farming systems.
2. Frontline demonstrations to establish production potential of technologies on the farmers' fields.
3. Capacity development of farmers and extension personnel to update their knowledge and skills on modern agricultural technologies.
4. To work as Knowledge and Resource Centre of agricultural technologies for supporting initiatives of public, private and voluntary sector in improving the agricultural economy of the district.
5. Provide farm advisories using ICT and other media means on varied subjects of interest to farmers.

In addition, KVKs produce quality technological products (seed, planting material, bio-agents, livestock) and make it available to farmers, organize frontline extension activities, identify and document selected farm innovations and converge with ongoing schemes and programs within the mandate of KVK.

Address	Mobile No.	E mail
Krishi Vigyan Kendra, Hawai Adda Road, Khagra (Near BSF-SHQ) Kishanganj, PIN- 855107	7903864332	*kishanganjkvk@gmail.com*

1. Name of host organization :

Address	Telephone		E mail
	Office	**FAX**	
Bihar Agricultural University Sabour, Bhagalpur	0641-2452611	0641-2452611	*deebausabour@gmail.com*

2. Staff Position (As on 01.01.2023)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Permanent/ Temporary	Category
1.	Senior Scientist & Head	Er. Manoj Kumar Roy	Senior Scientist & Head	Permanent	OBC
2.	Subject Matter Specialist	Dr. Niraj Prakash	Subject Matter Specialist (Entomology)	Permanent	OBC
3.	Subject Matter Specialist	Dr. Hemant Kr. Singh	Subject Matter Specialist (Horticulture)	Permanent	Other
4.	Subject Matter Specialist	**Vacant**	Subject Matter Specialist (Agronomy)	-	-
5.	Subject Matter Specialist	**Vacant**	Subject Matter Specialist (Home Sci.)	-	-
6.	Subject Matter Specialist	**Vacant**	Subject Matter Specialist (Animal Sci.)	-	-
7.	Subject Matter Specialist	**Vacant**	Subject Matter Specialist (Soil Sci.)	-	-
8.	Programme Assistant	**Vacant**	PA(Lab Technician)	-	-
9.	Programme Assistant	Anjum Hashim	PA(Computer)	Permanent	OBC
10.	Farm Manager	Smt. Sunita Kumari	Farm Manager	Permanent	OBC
11.	Accountant / Superintendent	**Vacant**	Assistant	-	-
12.	Stenographer	Sri Rakesh Mandal	Stenographer	Permanent	OBC
13.	Driver (Bolero)	Sri Niraj Kumar Singh	Driver	Permanent	Other
14.	Driver (Tractor)	**Vacant**	-	-	-
15.	Supporting staff	**Vacant**	Supporting Staff	-	-
16.	Supporting staff	**Vacant**	Supporting Staff	-	-

3. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings & Demo Units	1.5
3.	Under Crops	5.2
4.	Orchard	1.0
5.	Others with details (Canal)	2.3
Total		**10.0**

4. Major farming systems/enterprises (based on the analysis made by the KVK)

S. No.	Farming system/enterprise
1.	Paddy-maize based farming system
2.	Jute – Paddy based-vegetables farming system
3.	Paddy- Mustard/Potato- wheat –green gram based farming system
4.	Paddy-wheat based farming system
5.	Pineapple based farming system
6.	Makhana based farming
7.	Fish Farming
8.	Poultry/ goat farming
9.	Bee Keeping

5. About District

Demographic Features	
Area (in ha.)	188682.34
No. of Sub-Division	01
No. of Block	07
No. of Gram Panchayat	126
No. of Village	771
Total Population	1296348
Population Density (per sq. km.)	688/ sq km
SC Population	85818 6.62(%)
ST Population	47057 3.63(%)
Sex Ratio	940/1000
Literacy rate	31.02 (%)

Source: As per 2011 Census

6. Description of Agro-climatic Zone & major agro ecological situations (based on soil and Topography)

S. No	Agro-climatic Zone	Characteristics
1	Zone-II (North – East Alluvial Plain)	The climate is sub-tropical and humid having mean maximum and minimum temperature between 41^{o}C and 3.52^{o}C respectively. The average annual rainfall of the district is about **2269.49 mm**. Kishanganj is the only one district that receive maximum rainfall with rainy days in Bihar

7. Agro ecological situation

S. No	Agro ecological situation	Area (ha)	Characteristics
1	Up land sandy soil	33700	Suitable for maize, wheat, vegetables & fruits
2	Medium sandy loam soil	50700	Wheat, maize, jute, rice, oilseeds, pulses, vegetables & fruits cultivation
3	Low lying clay soil	42979	Flood & water lodging condition suitable for Paddy, Boro-paddy & paira cropping
4	Diara land of Mahananda flooded during rainy season with sandy and loamy soil	-	Suitable for rabi Maize, oilseeds and cucurbits

8. Soil types

S. No	Soil type	Characteristics	Area in ha
1	Very deep coarse loamy soil	Coarse loamy soil	63000
2	Very deep sandy soil	Sandy soil	2200
3	Very deep calcareous, coarse loamy soil	Calcareous loamy soil	8600
4	Very deep fine soil	Fine soil	21900
5	Very deep fine loamy soil	Fine loamy soil	85500

10. Details of operational area / villages

Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Kishanganj	Kishanganj	Bairgachhi, Andhwakol, Singhia, Motihara Taluka, Kashipur Belwa, Chhagalia, Lohadanga and Farsadangi	Rice, Wheat, Maize, Jute, Potato, Fruits &Vegetables, Mustard, green gram, Mushroom, Livestock, goatry, and Backyard Poultry	Unavailability of quality seeds, injudicious use of fertilizers, incidence of weeds, diseases and pests, lack of scientific knowledge of crop cultivation, Problematic soil	ICM,WM,INM, Improved seed and seed treatment, Vermiculture, Mushroom Production, Capacity Building, Value Addition, Disease management in animals
2.		Pothia	Panasi	Rice, Wheat, Maize, Jute, Potato, pineapple &Vegetables, Mustard, green gram, Banana, Mushroom, Livestock, goatry, and Backyard	Unavailability of quality seeds injudicious use of fertilizers, incidence of weeds, diseases and pests, lack of scientific knowledge of crop cultivation.	ICM,WM,INM, Improved seed and seed treatment, Vermiculture, Mushroom Production, Capacity Building, Value Addition, Disease management in animals
3.		Kochadhaman	Surang, Dogariya, Shitalnagar Purandaha	Rice, Maize, Makhana, Backyard Poultry	Unavailability of quality seeds incidence of weeds, diseases and pests, lack of scientific knowledge of crop cultivation.	ICM, Weed Management, Integrated Nutrient Management
4.		Thakurganj	Chapati, Patharia, Khanabari, Govindpur	Rice, Maize, Wheat, Makhana, Banana, Vegetables, Fish Culture and Backyard Poultry	Unavailability of quality seeds incidence of weeds, diseases and pests, lack of scientific knowledge of crop cultivation.	Natural Farming, ICM, Weed Management, Integrated Nutrient Management
5.		Bahadurganj	Maltola-Bangama, Mahesh Bathna, Kharsel	Rice, Maize, Wheat, Green Gram, Makhana, Banana, Vegetables, Fish Culture and Backyard Poultry	Unavailability of quality seeds incidence of weeds, diseases and pests, lack of scientific knowledge of crop cultivation.	ICM, Weed Management, Integrated Nutrient Management

11. Priority thrust areas

S. No	Thrust area
1.	INM and IPM practices for sustainable agriculture.
2.	Management of Jute, Banana and Pineapple/ fruit orchard based cropping system.
3.	Popularization of Dragon Fruit
4.	Popularization of quality seed production.
5.	Income generation activities through beekeeping, mushroom production, vermi-composting, goatary, Poultry, and preservation of fruits and vegetables etc. & Farm women empowerment.
6.	Promotion and adoption of Integrated farming system in the district.
7	Enhancement of milk production through proper management of miltch animals.

12. Training program to be organized (May to December 2023)

1. Agronomy

Thematic area	Title of Training	Qtr No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmers														
	~~AWD in paddy cultivation~~	~~II~~	~~2~~	~~Off/On~~	~~24-25 May, 2023~~	~~2~~	~~1~~	~~1~~	~~1~~	~~15~~	~~5~~	~~18~~	~~7~~	~~25~~
	~~WH & FB in paddy cultivation~~	~~III~~	~~2~~	~~Off/On~~	~~20-21 July, 2023~~	~~2~~	~~1~~	~~1~~	~~1~~	~~15~~	~~5~~	~~18~~	~~7~~	~~25~~
	Weed management in paddy		2	Off/On	16-17 Aug, 2023	2	1	1	1	15	5	18	7	25
	~~preparation of Jeevamrit and Amrit Jal and its uses in natural farming.~~		~~2~~	~~Off/On~~	~~21-22 Sept, 2023~~	~~2~~	~~1~~	~~1~~	~~1~~	~~15~~	~~5~~	~~18~~	~~7~~	~~25~~

Thematic area	Title of Training	Qtr No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
	Maize cultivation by raised bed method	IV	2	Off/On	19-20 Oct, 2023	2	1	1	1	15	5	18	7	25
	Scientific cultivation of Mustard		2	Off/On	7-8 Nov, 2023	2	1	1	1	15	5	18	7	25
Rural Youth														
Seed production	Seed production	IV	4	Off/On	05-08 Dec, 2023	2	1	1	1	15	5	18	7	25
Extension Functionaries														
	Productivity enhancement in field crops	II	2	Off/On	24-25 Aug, 2023	2	1	1	1	15	5	18	7	25
INM	Integrated Nutrient management	IV	2	Off/On	10-11 Oct, 2023	2	1	1	1	15	5	18	7	25
Total														

2. Agricultural Engineering

Thematic area	Title of Training	Qtr No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmers														
Installation and maintenance of micro irrigation system	Installation and operation of micro-irrigation system	I	2	Off/On	06-07 Mar, 2023	2	1	1	1	15	5	18	7	25

Thematic area	Title of Training	Qtr No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Use of farm machinery and implements	Sowing of green gram by zero tillage machine	II	2	Off/On	05-06, April 2023	2	1	1	1	15	5	18	7	25
Micro irrigation water management	Importance of Micro irrigation system & its maintenance		2	Off/On	10-11 May, 2023	2	1	1	1	15	5	18	7	25
Use of farm machinery and implements	Direct Seeded Rice technology		2	Off/On	24-25 May, 2023	2	1	1	1	15	5	18	7	25
Use of farm machinery and implements	Use of improved tools for land preparation of paddy field	III	2	Off/On	20-21 July, 2023	2	1	1	1	15	5	18	7	25
Use of farm machinery and implements	Use of improved tools for weed management in Kharif crops		2	Off/On	16-17 Aug, 2023	2	1	1	1	15	5	18	7	25
Use of farm machinery and implements	Calibration of seed drill and zero till drill machine		2	Off/On	21-22 Sept, 2023	2	1	1	1	15	5	18	7	25
Use of farm machinery and implements	Use of raised bed planter for maize cultivation	IV	2	Off/On	19-20 Oct, 2023	2	1	1	1	15	5	18	7	25
Use of farm machinery and implements	Use of zero till drill machine for wheat cultivation.		2	Off/On	7-8 Nov, 2023	2	1	1	1	15	5	18	7	25

Thematic area	Title of Training	Qtr No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Rural Youth														
Installation and maintenance of micro irrigation system	Installation and maintenance of micro irrigation system	IV	4	Off/On	05-08 Dec, 2023	2	1	1	1	15	5	18	7	25
Extension Functionaries														
Resource Conservation Technology	Calibration of zero till drill machine	II	2	Off/On	24-25 Aug, 2023	2	1	1	1	15	5	18	7	25
Water Management	Use of micro – irrigation for horticultural crops.	IV	2	Off/On	10-11 Oct, 2023	2	1	1	1	15	5	18	7	25
Total			**27**			**24**	**12**	**12**	**12**	**180**	**70**	**216**	**84**	**300**

3. Plant Protection

Thematic area	Title of Training	No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmers														
Integrated Pest management	Insects pest management in mango	I	2	Off/ On	03-04 Jan, 2023	2	1	1	1	15	5	18	7	25
Integrated disease management	Disease management in mango		2	Off/ On	18-19 Jan, 2023	2	1	1	1	15	5	18	7	25
Natural Farming	Preparation and use of Jeewamrit 1,2,3 and Amrit Jal 1,2,3		2	Off/ On	02-03 Feb, 2023	2	1	1	1	15	5	18	7	25
Integrated	Storage pest		2	Off/	22-23	2	1	1	1	15	5	18	7	25

Thematic area	Title of Training	No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
pest management	of grains and their control measures			On	Feb, 2023									
Bio-control of pest and diseases	Bio pesticide and their use in plant production		2	Off/ On	15-16 Mar, 2023	2	1	1	1	15	5	18	7	25
Integrated Pest management	Management of insect pest by cultural practices in summer season	II	2	Off/ On	19-20 April, 2023	2	1	1	1	15	5	18	7	25
Integrated Pest management	Management of insect pest of green gram		2	Off/ On	27-28 April, 2023	2	1	1	1	15	5	18	7	25
Integrated pest management	Integrated pest management in jute		2	Off/ On	18-19 May, 2023	2	1	1	1	15	5	18	7	25
Integrated disease management	Seed treatment of tuber crops		2	Off/ On	16-17 June, 2023	2	1	1	1	15	5	18	7	25
Natural Farming	Preparation and use of Jeewamrit 1,2,3 and Amrit Jal 1,2,3	III	2	Off/ On	06-07 July, 2023	2	1	1	1	15	5	18	7	25
Integrated disease management	Management of sheath blight in kharif paddy		2	Off/ On	10-11 Aug, 2023	2	1	1	1	15	5	18	7	25
Integrated disease management	Management of false smut in kharif paddy		2	Off/ On	23-24 Aug, 2023	2	1	1	1	15	5	18	7	25
Integrated disease management	Disease management of banana		2	Off/ On	07-08 Sept, 2023	2	1	1	1	15	5	18	7	25
Integrated pest management	Integrated pest management in maize	IV	2	Off/ On	11-12 Oct, 2023	2	1	1	1	15	5	18	7	25
Integrated disease	Early and late blight		2	Off/ On	16-17 Nov,	2	1	1	1	15	5	18	7	25

Thematic area	Title of Training	No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
management	disease of potato and their management				2023									
Organic Farming	Use of bio-pesticides, PSB, Azotobacter and Vermi composting		2	Off/ On	13-14 Dec, 2023	2	1	1	1	15	5	18	7	25
Rural Youth														
Bee-keeping	Sustainable Beekeeping and Honey Production technique	I	4	Off/ On	10-13 Jan, 2023	2	1	1	1	15	5	18	7	25
Vermiculture	Technique of vermicompost production and its importance and application.	II	4	Off/On	10-13 Apr, 2023	2	1	1	1	15	5	18	7	25
Production of organic input	Production of vermi wash and uses in vegetable crops.	III	4	Off/On	02-05 Aug, 2023	2	1	1	1	15	5	18	7	25
Mushroom production	Mushroom cultivation technique.	IV	4	Off/On	07-10 Nov, 2023	2	1	1	1	15	5	18	7	25
Extension Functionaries														
Integrated pest management	Integrated pest management in Kharif crops.	II	2	Off/On	27-28 June, 2023	2	1	1	1	15	5	18	7	25
Integrated pest management	Integrated pest management in Rabi crops.	IV	2	Off/On	26-27 Oct, 2023	2	1	1	1	15	5	18	7	25

Thematic area	Title of Training	No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Total			**52**			**44**	**22**	**22**	**22**	**330**	**110**	**396**	**154**	**550**

4. Horticulture

Thematic area	Title of Training	No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmers														
Cultivation of fruits	Scientific cultivation of Pine apple	I	2	Off/On	12-13 Jan, 2023	2	1	1	1	15	5	18	7	25
Cultivation of fruits	Production management of Guava orchard		2	Off/On	13-14 Feb, 2023	2	1	1	1	15	5	18	7	25
Production and management technology of tuber crops	Scientific cultivation of summer vegetables		2	Off/On	03-04 Mar, 2023	2	1	1	1	15	5	18	7	25
Cultivation of fruits	Production management of guava orchards		2	Off/On	13-14 Mar, 2023	2	1	1	1	15	5	18	7	25
Nursery raising	Nursery management of vegetable crops	II	2	Off/On	27-28 April, 2023	2	1	1	1	15	5	18	7	25
Yield increment	Scientific cultivation of elephant foot yam		2	Off/On	11-12 May, 2023	2	1	1	1	15	5	18	7	25
Cultivation of fruits	Scientific cultivation of Banana		2	Off/On	16-17 June, 2023	2	1	1	1	15	5	18	7	25
Plant propagation technique	Methods of plant propagation techniques of fruits	III	2	Off/On	03-04 July, 2023	2	1	1	1	15	5	18	7	25
Rejuvenation of old	Training and pruning of		2	Off/On	17-18 Aug,	2	1	1	1	15	5	18	7	25

Thematic area	Title of Training	No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
orchard	old orchards				2023									
Production & management technology of Vegetable	Scientific cultivation of solanaceous vegetables		2	Off/On	14-15 Sept, 2023	2	1	1	1	15	5	18	7	25
Production and management technology of tuber crop	Scientific cultivation of potato	IV	2	Off/On	19-20 Oct, 2023	2	1	1	1	15	5	18	7	25
Yield increments	Scientific cultivation of leafy vegetables		2	Off/On	28-29 Nov, 2023	2	1	1	1	15	5	18	7	25
Yield increments	Production management of mango orchards		2	Off/On	07-08 Dec, 2023	2	1	1	1	15	5	18	7	25
Rural Youth														
Layout and management methods	Establishment and methodology of new orchards	I	4	Off/On	01-04 Feb, 2023	2	1	1	1	15	5	18	7	25
Cultivation of fruit	Scientific cultivation of Dragon Fruit	III	2	Off/On	19-20 July, 2023	2	1	1	1	15	5	18	7	25
Cultivation of fruit	Organic cultivation of Dragon Fruit		5	Off/On	21-25 Aug, 2023	2	1	1	1	15	5	18	7	25
Layout and management methods	High density planting system for fruit crops		3	Off/On	07-09 Sept, 2023	2	1	1	1	15	5	18	7	25
Export potential fruits	Production and management of Makhana and its processing	IV	4	Off/On	25-27 Oct, 2023	2	1	1	1	15	5	18	7	25
Planting	Technique of		4	Off/On	15-18	2	1	1	1	15	5	18	7	25

Thematic area	Title of Training	No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
propagation techniques	propagation of rootage and graftage in fruit crops				Nov, 2023									
Protected cultivation techniques	Nursery management of vegetable crops and poly tunnel technology		4	Off/On	04-07 Dec, 2023	2	1	1	1	15	5	18	7	25
Extension Functionaries														
Water Management	Increasing water use efficiency and high productivity of horticultural crops.	II	2	Off/On	22-23 June, 2023	2	1	1	1	15	5	18	7	25
Protected cultivation	Production technology for growing off season vegetables and flowers.	IV	2	Off/On	08-09 Nov, 2023	2	1	1	1	15	5	18	7	25
Total			**55**			**44**	**22**	**22**	**22**	**330**	**110**	**396**	**154**	**550**

12. (A) Skill Development training to be organized (January to December 2023)

Sl. No.	Job Role	Duration (hrs)	No. of participants	Remarks
1	Gardner	240	30	BSDM (RPL)

13. Frontline demonstration to be conducted 2023

Sl. No	Season	Crop	Variety	Technology	Area in ha.	No. of Demonstration
1.	Summer	Jute	JRO – 204	Jute sowing by multi row jute	4.0	10

Sl. No	Season	Crop	Variety	Technology	Area in ha.	No. of Demonstration
				seed drill		
2.	Summer	(Pointed Gourd) Cucurbitaceous crop	Existing Farmer's Variety	Pheromone trap for management of fruit fly	4.0	20
3.	Kharif	Brinjal	Existing Farmer's Variety / Hybrid	Emamectin Benzoate 5 SG for management of Fruit and Shoot borer	4.0	20
4.	Kharif	Tea	Existing Farmer's Variety (T-24/25)	Yellow Sticky Trap	8.0	20
5.	Kharif	Finger Millet	Available Variety	Improved Seed	4.0	10
6.	Rabi	Pseudo Millet (Buck Wheat)	Him Priya	Improved Seed	4.0	10
7.	Rabi	Makhana	Sabour Makhana – 1	Improved Seed	7.0	7
8.	Rabi	Maize	Hybrid	Inter culturing by brush cutter cum weeder	2.0	10
9.	Rabi	Maize	Existing Farmer's Variety / Hybrid	Emamectin benzoate 5SG, Thiomethoxame and Lamdacyhalothrin for management of fall army worm	4.0	20
10.	Rabi	Pine apple	Existing Farmer's Variety / Joint Kew	Post emergence herbicide for weed control	4.0	10
Total					**37**	**125**

(1). Crop: Jute
Thrust Area: Management of jute based farming system
Thematic Area: Farm Mechanization
Season: Summer
Farming Situation: Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Jute	4	Jute sowing by multi row jute seed drill	Field capacity, Yield	Seed, Jute Seed Drill	-	-	0	0	1	0	9	0	10	0	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Scientific cultivation of jute	1	PF	2	Off	5	10	-	-	5	10	10	20	30
Field Day	Scientific cultivation of jute	1	PF	1	Off	5	10	-	-	5	10	10	20	30

(2). Crop/Technology: Cucurbitaceous crop/ Pheromone trap
Thrust Area: Integrated pest management for sustainable agriculture
Thematic Area: Integrated Pest Management
Season: Summer
Farming Situation: Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha) / Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
1	Cucurbitaceous crop/ Pheromone trap	4	Pheromone trap for management of fruit fly	Yield	Pheromone trap	-	-	1	1	-	-	8	5	9	6	15

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training/ Field Day	IPM in cucurbitaceous crop	3	PF	4	ON/Off	10	20	-	-	10	20	20	40	60

(3). Crop / Technology: Brinjal / Emamectin Benzoate 5 SG for management of Fruit and Shoot borer
Thrust Area: Integrated pest management practices for sustainable vegetable crops
Thematic Area: Integrated Pest Management
Season: Kharif
Farming Situation: Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T

1	Brinjal	4	Emamectin Benzoate 5 SG for management of Fruit and Shoot borer	Yield	Emamectin Benzoate 5 SG	-	-	2	2	2	2	8	4	12	8	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Scientific cultivation of vegetables	3	PF	3	Off	10	20	-	-	10	20	20	40	60

(4). Crop/ Technology: Tea / Yellow Sticky Trap
Thrust Area: IPM practices for sustainable agriculture.
Thematic Area: Integrated Pest Management
Season: Kharif
Farming Situation: Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Tea	8	Yellow Sticky Trap	Leaf Yield	Tin and Sticky Trap	-	-	4	-	-	-	12	4	16	4	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field	Field	2	PF & EF	1	Off	15	5	-	-	25	5	40	10	50

Day	day and Training													

(5). Crop/ Technology: Finger Millet
Thrust Area: Millet popularization.
Thematic Area: Millet cultivstion
Season: Kharif
Farming Situation: Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha) / Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Finger Millet	4	Available Variety	Yield	Seed	-	-	2	-	-	-	6	2	8	2	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field Day	Field day of Millet	1	PF & EF	1	Off	15	5	-	-	25	5	40	10	50
Training	Popularization of millet	2	PF & EF	6		15	5	-	-	25	5	40	10	50

(6). Crop/ Technology: Pseudo Millet (Buck Wheat)
Thrust Area: Popularization of bio-fortified seed
Thematic Area: Nutritional security
Season: Rabi
Farming Situation: Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Pseudo Millet (Buck Wheat)	4	Cultivation technique of buck wheat	Yield	Seed	-	-	1	1	-	-	6	2	7	3	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Scientific cultivation of buck wheat	2	PF	2	ON/Off	5	10	-	-	5	10	10	20	30

(7). Crop/ Technology: Makhana
Thrust Area: Management of wet land
Thematic Area: Wet land development
Season: Rabi
Farming Situation: Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Makhana	1.0	Sabour Makhana - 1	Yield	Seed	-	-	1	-	-		4	0	5	0	5

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field Day	Cultivation of makhana	1	PF & EF	1	Off	15	5	-	-	25	5	40	10	50

8). Crop/ Technology: Maize
Thrust Area: Popularization of farm machinaries
Thematic Area: Farm Mechanization
Season: Rabi
Farming Situation: Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit	Technology package for demonstration	Parameter (Data) in relation to technology	Cost of Cultivation (Rs.)			No. of farmers / demonstration			
					Name of	Demo	Local	SC	ST	Other	Total

		(No.)		demonstrated	Inputs			M	F	M	F	M	F	M	F	T
1	Maize	2.0	Brush cutter cum weeder	Yield	Seed	-	-	2	-	-		8	0	10	0	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field Day	Brush cutter cum weeder	1	PF & EF	1	Off	15	5	-	-	25	5	40	10	50

(9). Crop/ Technology: Maize/ Package of insecticide for Fall Army Worm

Thrust Area: Integrated pest management for sustainable agriculture

Thematic Area: Integrated pest management

Season: Rabi

Farming Situation: Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Maize	08	Emamectin benzoate 5SG, Thiomethoxame and Lamdacyhalothrin	Yield	Insecticide	-	-	4	-	-	-	12	4	16	4	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field Day and training	Performance of Insecticide for control of fall army worm	1	PF & EF	1	Off	15	5	-	-	25	5	40	10	50

(10). Crop/ Technology: Pineapple/ Post-emergence herbicide

Thrust Area: Management of pineapple based cropping system
Thematic Area: Weed management
Season: Kharif
Farming Situation: Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Pineapple	4.0	Post-emergence herbicide	Yield	chemicals	-	-	2	-	2		4	2	8	2	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field Day	Performance of post-emergence herbicides in pineapple	1	PF & EF	1	Off	15	5	-	-	25	5	40	10	50

13 (A). Cluster Front Line Demonstration(CFLD)

Sl. No	Season	Crop	Variety	Technology	Area in ha.	No. of Demonstration
1.	Summer	Green gram	IPM – 205-7	Popularization of pulse crop in summer season	20	50
2.	Rabi	Oilseed	R-Suflam	Popularization of oilseed crop in rabi season	30	75

13 (B). National Innovations in Climate Resilient Agriculture (NICRA).

Sl. No	Season	Crop/ Animals	Variety/ Breed	Technology	Area in ha./no.	No. of Demonstration
1.	Summer	Green gram	IPM – 205-7	Popularization of pulse crop in summer season	8	20
2.		Turmeric	R-Sonia	Popularization of Turmeric variety in upland area	0.5	6
3.	Kharif	Paddy	Swarna Sub – 1	Flood tolerant variety	10	25
4.			Sabour Sampann	Flood and drought tolerant variety	12	30
5.						
6.	Rabi	Maize	P-3355	Raised Bed Maize	12	30
7.		Makhana	Sabour Makhana – 1	Makaha Production	8	8
8.	**Total**				**50.5**	**119**
9.	Others	Dairy Animal	Cow	Mineral Mixture	24 no.	12
10.		Fish	Indian Major Carp	Fish Feed	10 pond	10
Total					**34**	**22**

13 (C). Makhana Development Scheme, Govt. of Bihar.

Sl. No	Season	Crop/ Animals	Variety/ Breed	Technology	Area in ha.	No. of Demonstration
1.	Summer	Makhana	Sabour Makhana – 1	Makaha Production	50	50

13 (D). Demonstration under Climate Resilient Agriculture Programme, Govt. of Bihar.

Sl. No	Season	Name of Technology	Area (ha)	No. of demonstrations
1	Summer 2023	Line sowing of green gram	4	10
		Green manuring with sesbania	100	240
2	Kharif 2023	DSR/line sowing with climate resilient variety	168	420
		Water harvesting and field bunding in paddy	24	60
		Alternate wetting and drying of paddy	16	40
		INM/ green seeker based nutrient management in paddy	16	40
		Ginger-bitter gourd intercropping	6	15
		Community irrigation	8	20
3	Rabi 2023-23	Raised Bed Maize	220.8	1104
		Zero tillage wheat	4	10
		INM wheat	4	10
		Raised Bed mustard	10	25
		Raised Bed Potato	1.2	10
		Community irrigation	8	20
		Leaser Land Leveling	40	100
Total			**630**	**2134**

14 a) Seed and planting material production by utilization of instructional farm (Crops / Enterprises)

Name of the Crop / Enterprise	Variety / Type	Period From Jan to December 2023	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	Sabour Sampann	Kharif	4.6	Seed	160.00	135000.00	532000.00	397000.00
Wheat	HD-2967	Rabi	4.0	Seed	80.00	80000.00	320000.00	240000.00
Mustard	R.Suflam	Rabi	1.0	Seed	08.00	10000.00	88000.00	78000.00
Dragon Fruit	Red cover with red flesh	-	0.035	Cutting	4000 no.	10000.00	240000.00	230000.00
Guava	VNR-VIHI/ Allahabad Safeda	-	0.050	Plant	1000 no.	20000.00	40000.00	20000.00
Cauliflower	Sabour Agrim	Rabi	-	Sapling	5000 no.	2000.00	5000.00	3000.00
Total					**248 q 10000 no.**	**257000.00**	**1225000.00**	**968000.00**

15. Extension Activities

Sl. No.	Activities/ Sub-activities	No. of activities proposed	Total		
			Male	Female	Total
1.	Field Day	05	160	90	250
2.	Kisan Mela	02	720	180	1000
3.	Kisan Ghosthi	05	330	170	500
4.	Exhibition	02	165	35	200
5.	Workshop	01	0	0	50
6.	Advisory Services	750	840	220	1060
7.	Scientific visit to farmers field	75	165	35	200
8.	Farmers visit to KVK	550	450	100	550
9.	Diagnostic visits	45	370	80	450
10.	Exposure visits	02	40	10	50
11.	Ex-trainees Sammelan	01	30	20	50
12.	Soil health Camp	02	60	40	100
13.	Animal Health Camp	02	60	40	100
14.	Soil test campaigns	02	60	40	100
15.	Celebration of important days (specify)	06	170	130	300
16.	Swatchta Hi Sewa	06	170	130	300
17.	Mahila Kisan Diwas	01			50
18.	Any Other (Specify)	25	250	100	350
	Total	**1482**	**4040**	**1420**	**5660**

16. Revolving Fund (in Rs.)

Opening balance of 2023-2023 (As on 01.04.2023)	Amount proposed to be invested during 2023-23	Expected Return
41,37,986.50	2,10,000.00	968000.00

17. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
Assessment and validation of technology	ATMA, Kishanganj	0.50

19. ON FARM TRIAL

OFT-1 (Entomology)

i.	**Season:**	Rabi
ii.	**Title of the OFT**	Eco-friendly management practices to control fruit fly in cucurbits.
iii.	**Thematic Area:**	Integrated Pest management
iv.	**Problem diagnosed**	Most of the fruit of cucurbits damage due to fruit fly, ultimately yield affected and farmers indiscriminate use hard insecticides which is harmful for human.
v.	**Important Cause**	Due to crop damage farmers could not achieve desired production.
vi.	**Production system:**	Vegetables cropping system
vii.	**Micro farming system:**	Medium-Up land
viii.	**Technology for Testing:**	Farmers practice- Use of any pesticides as per their knowledge. TO1- Commercial fruit fly pheromone trap @ 10/h. TO2- Self made poison bait fruit fly trap @ 10/h.
ix.	**Existing Practice:**	Farmers indiscriminate use hard insecticides
x.	**Hypothesis:**	Protect crop by attack of fruit fly keeping in view environmentally safe.
xi.	**Objective(s):**	To enhance the income of farmers through vegetable production.
xii.	**Treatments**	Farmers practice- Use of any pesticides as per their knowledge. TO1- Commercial fruit fly pheromone trap @ 10/h. TO2- Self-made poison bait fruit fly trap @ 10/h.
xiii.	**Critical Inputs:**	Pheromone trap/Insecticide for self-made poison bait fruit fly trap
xiv.	**Unit Size:**	2000 sqm
xv.	**No of Replications:**	10
xvi.	**Unit Cost:**	Rs.500
xvii.	**Total Cost:**	Rs.5000
xviii.	**Monitoring Indicator:**	Technological observations: Number of fruits/infected fruits at different harvest Insect infestation (%) Yield (q/ha) Economic indicators: Cost of cultivation(Rs.) Net return (Rs.) B:C Ratio
xix.	**Source of Technology (ICAR/AICRP/SAU/ Other, please specify):**	**DRPCAU, Pusa**

OFT-2 (Entomology)

i.	**Season:**	Rabi
ii.	**Title of the OFT**	Management of *Phytophthora* heart rot and root rot disease in pineapple
iii.	**Thematic Area:**	Integrated disease management
iv.	**Problem diagnosed**	Heart rot and root rot one of the major disease caused by *Phytophthora parasitica* and *P. cinnamoni* is the most serious problem in all the pineapple growing area. So development of integrated disease management technology is very necessary.
v.	**Important Cause**	*Phytophthora parasitica* and *P. cinnamon* cause mortality in pineapple.
vi.	**Production system:**	Pineapple farming situation.
vii.	**Micro farming system:**	Medium-Up land
viii.	**Technology for Testing:**	TO1- (i) Soil application of Trichoderma sp. @ 5 Kg/ha with FYM (ii) Fosetyl AL @ 1000 ppm bi-monthly spray with first spray after two month of planting. TO2- (i) Soil application of Trichoderma sp. @ 5 Kg with FYM (ii) Mancozeb @ 2000 ppm and Difenconazole @ 1000 ppm alternate bi-monthly spray with first spray after two month of planting.
ix.	**Existing Practice:**	No use of any fungicide
x.	**Hypothesis:**	Protect crop by Heart rot and root rot for quality production
xi.	**Objective(s):**	To enhance the farmers income through quality production
xii.	**Treatments**	TO1- (i) Soil application of Trichoderma sp. @ 5 Kg/ha with FYM (ii) Fosetyl AL @ 1000 ppm bi-monthly spray with first spray after two month of planting. TO2- (i) Soil application of Trichoderma sp. @ 5 Kg with FYM (ii) Mancozeb @ 2000 ppm and Difenconazole @ 1000 ppm alternate bi-monthly spray with first spray after two month of planting.
xiii.	**Critical Inputs:**	Trichoderma, , Fosetyl AL, Mancozeb, Difenconazole
xiv.	**Unit Size:**	1000 sqm
xv.	**No of Replications:**	10
xvi.	**Unit Cost:**	Rs.1000
xvii.	**Total Cost:**	Rs. 10000
xviii.	**Monitoring Indicator:**	Technological observations: Observation on disease severity, Plant mortality after 5 days of each spray, (Disease infestation%) Yield (q/ha) Economic indicators: Cost of cultivation(Rs.) Net return (Rs.) B:C Ratio
xix.	**Source of Technology (ICAR/AICRP/SAU/ Other, please specify):**	

OFT-3 (Horticulture)

I.	**Season:**	Rabi
II.	**Title of the OFT**	**Performance evaluation of raised bed with paddy straw mulch in potato production.**
III.	**Thematic Area:**	Resource Conservation Technology
IV.	**Problem diagnosed**	Potato producers are facing increasing costs of cultivation, incidence of potato late blight, and a delay in sowing next crop.
V.	**Important Cause**	Low yield accompanied with high cultivation costs, incidence of late blight, and delay in growing the following crop in the field.
VI.	**Production system:**	Rice-Potato-Maize
VII.	**Micro farming system:**	Medium and up land situation
VIII.	**Technology for Testing:**	Raised bed with paddy straw mulch & Zero tillage with paddy straw mulch
IX.	**Existing Practice:**	Farmers practice Flat method or ridge method
X.	**Hypothesis:**	a. Low incidence of insect- pest (99 % reduction of damage by cut worm) and delayed late blight incident. b. Effective way of weed management (80-95 % reduction of weed incidence) c. Early harvesting to facilitate timely sowing of upcoming crops.
XI.	**Objective(s):**	Climate resilient technology based potato production
XII.	**Treatments**	a. *Farmer's Practice: Sowing of potato in plough field and earthing up.* b. TO_1 – Zero tillage with rice straw mulch (ZTRM) **a.** TO_2 – Raised bed with rice straw mulch (RBRM)
XIII.	**Critical Inputs:**	Tuber
XIV.	**Unit Size:**	1000 m^2
XV.	**No of Replications:**	08
XVI.	**Unit Cost:**	1250/-
XVII.	**Total Cost:**	10000/-
XVIII.	**Monitoring Indicator:**	**A. Technological observations:** • No of tuber/plants • Days of maturity • Average Yield (q/ha.) **B. Economics:** • Cost of cultivation (Rs/ha) • Net return (Rs/ha) • B:C ratio
XIX.	**Source of Technology (ICAR/AICRP/SAU/ Other, please specify):**	CIP, Shillong

OFT – 4 (Horticulture)

I.	**Season:**	Rabi
II.	**Title of the OFT**	**Performance assessment of pineapple variety *MD 2* in Kishanganj district.**
III.	**Thematic Area:**	Varietal evaluation
IV.	**Problem diagnosed**	Pineapple farming is more expensive (about Rs one lakh per acre). In Kishanganj, farmers exclusively produce the kew and queen varieties, which have a poor shelf life.
V.	**Important Cause**	Poor shelf life of existing pineapple varieties
VI.	**Production system:**	Pineapple based farming
VII.	**Micro farming system:**	Up land situation
VIII.	**Technology for Testing:**	Performance of Variety *MD 2*
IX.	**Existing Practice:**	Local variety Kew & Queen
X.	**Hypothesis:**	a. Adoptability of new variety due to superior quality, yield, and shelf life of the product. b. Variety will boost the revenue of district.
XI.	**Objective(s):**	Introduction of new variety in kishnagnaj
XII.	**Treatments**	a. *Farmer's Practice: local variety* b. TO_1 – *Queen (Tissue culture or Suckers)* c. TO_2 – *MD2 (Tissue culture or Suckers)*
XIII.	**Critical Inputs:**	Suckers
XIV.	**Unit Size:**	1000 m^2
XV.	**No of Replications:**	08
XVI.	**Unit Cost:**	1250/-
XVII.	**Total Cost:**	10000/-
XVIII.	**Monitoring Indicator:**	**A. Technological observations:** • Days of D-leaf • Days of 50 % flowering • Days of maturity • Fruit yield (q/ha.) **B. Economics:** • Yield (q/ha) • Cost of cultivation (Rs/ha) • Net return (Rs/ha) • B:C ratio
XIX.	**Source of Technology (ICAR/AICRP/SAU/ Other, please specify):**	BAU, Sabour

OFT – 5 (Horticulture)

I.	**Season:**	Rabi
II.	**Title of the OFT**	**Performance assessment of pineapple variety *MD 2* in Kishanganj district.**
III.	**Thematic Area:**	Varietal evaluation
IV.	**Problem diagnosed**	Pineapple farming is more expensive (about Rs one lakh per acre). In Kishanganj, farmers exclusively produce the kew and queen varieties, which have a poor shelf life.
V.	**Important Cause**	Poor shelf life of existing pineapple varieties
VI.	**Production system:**	Pineapple based farming
VII.	**Micro farming system:**	Up land situation
VIII.	**Technology for Testing:**	Performance of Variety *MD 2*
IX.	**Existing Practice:**	Local variety Kew & Queen
X.	**Hypothesis:**	c. Adoptability of new variety due to superior quality, yield, and shelf life of the product. d. Variety will boost the revenue of district.
XI.	**Objective(s):**	Introduction of new variety in kishnagnaj
XII.	**Treatments**	d. *Farmer's Practice: local variety* e. TO_1 – *Queen (Tissue culture or Suckers)* f. TO_2 – *MD2 (Tissue culture or Suckers)*
XIII.	**Critical Inputs:**	Suckers
XIV.	**Unit Size:**	1000 m^2
XV.	**No of Replications:**	08
XVI.	**Unit Cost:**	1250/-
XVII.	**Total Cost:**	10000/-
XVIII.	**Monitoring Indicator:**	**B. Technological observations:** • Days of D-leaf • Days of 50 % flowering • Days of maturity • Fruit yield (q/ha.) **B. Economics:** • Yield (q/ha) • Cost of cultivation (Rs/ha) • Net return (Rs/ha) • B:C ratio
XIX.	**Source of Technology (ICAR/AICRP/SAU/ Other, please specify):**	BAU, Sabour

OFT- 6 (Agril. Engg.)

i.	**Season:**	Kharif – 2023
ii.	**Title of the OFT**	**Assessment of different weeding tools in paddy.**
iii.	**Thematic Area:**	Farm mechanization
iv.	**Problem diagnosed**	Inter-culturing of paddy is costly and strenuous
v.	**Important Cause**	Low level of farm mechanization
vi.	**Production system:**	Rice-maize
vii.	**Micro farming system:**	Irrigated upland
viii.	**Technology for Testing:**	Suitability of inter culturing tools for paddy.
ix.	**Existing Practice:**	Manually by local hand tools
x.	**Hypothesis:**	Use of power weeder will increase the field capacity and reduce drudgery
xi.	**Objective(s):**	To increase the level of farm mechanization.
xii.	**Treatments**	**a) Farmer Practice (FP):** Manually by local hand tools **b) TO_1**: Manual inter culturing by grubber. **c) TO_2:** Inter culturing with power weeder.
xiii.	**Critical Inputs:**	Weeder, Seed
xiv.	**Unit Size:**	600 m^2
xv.	**No of Replications:**	06
xvi.	**Unit Cost:**	35000
xvii.	**Total Cost:**	40000
xviii.	**Monitoring Indicator:**	**A. Technological observations:** • Field capacity (ha/h) • Field efficiency (%) • Weeding efficiency (%) **B. Economical observations:** • Cost (Rs/ha) • Yield (q/ha) • B:C ratio
xix.	**Source of Technology (ICAR/AICRP/SAU/ Other, please specify):**	DRPCAU, Pusa, Samastipur

OFT – 7 (Agril. Engg.)

I.	**Season:**	Rabi/Summer – 2023
II.	**Title of the OFT**	**Assessment of Multi crop planter for sowing of pulses in different field conditions.**
III.	**Thematic Area:**	Farm Mechanization
IV.	**Problem diagnosed**	
V.	**Important Cause**	
VI.	**Production system:**	Paddy – Maize/ Paddy - wheat cropping system
VII.	**Micro farming system:**	Medium land
VIII.	**Technology for Testing:**	Sowing of pulses with Multi crop planter.
IX.	**Existing Practice:**	Broadcasting in tilled condition.
X.	**Hypothesis:**	Line sowing will increase the production.
XI.	**Objective(s):**	i. To find out the best sowing method of pulses.
XII.	**Treatments**	a. Farmer's Practice: Broadcasting in tilled condition. b. TO_1: Sowing with Multi crop planter in no tilled condition. c. TO_2: Sowing with Multi crop planter in tilled condition.
XIII.	**Critical Inputs:**	Seed, fuel for planting, herbicide.
XIV.	**Unit Size:**	1000 m^2
XV.	**No of Replications:**	08
XVI.	**Unit Cost:**	1250/-
XVII.	**Total Cost:**	10000/-
XVIII.	**Monitoring Indicator:**	**A. Technological observations:** • No. of plants/m^2 • Labour saving (man-days/ha) • Yield **B. Economics:** • Cost of cultivation (Rs/ha) • Net return (Rs/ha) • B:C ratio
XIX.	**Source of Technology (ICAR/AICRP/SAU/ Other, please specify):**	RPCAU, Pusa

OFT-09 (Agronomy)

i.	**Season:**	
ii.	**Title of the OFT**	**Improvement of Nitrogen use efficiency in rice**
iii.	**Thematic Area:**	INM
iv.	**Problem diagnosed**	**Excessive use of chemical fertilizer and Spiraling price of urea leads to increase in cost of cultivation**
v.	**Important Cause**	
vi.	**Production system:**	
vii.	**Micro farming system:**	
viii.	**Technology for Testing:**	Farmers practice- **RDF (100:40:20) Kg/ha** TO1- **50% of RDN & 100% PK + nano urea @4ml/lt. water (Single spray at pre flowering stage)**. TO2- **50% of RDN & 100% PK + 2 sprays of Nano Urea at (25 to 30 days) and (60-65 days) @ 4 ml/lt water.** **(Especially for Medium duration variety of BAU Sabour, BAU Ranchi and Dr RPCAU, Pusa, ICAR RCER, Patna)**
ix.	**Existing Practice:**	
x.	**Hypothesis:**	
xi.	**Objective(s):**	
xii.	**Treatments**	
xiii.	**Critical Inputs:**	
xiv.	**Unit Size:**	
xv.	**No of Replications:**	
xvi.	**Unit Cost:**	
xvii.	**Total Cost:**	
xviii.	**Monitoring Indicator:**	Plot size (10x10 m2)/ in each tech. option, soil data before and after (pH, EC, OC, NPK,), Yield data, No. of effective tillers/m2, 1000 grain weight, Panicle weight, Grain and Straw yield and Economics.
xix.	**Source of Technology (ICAR/AICRP/SAU/ Other, please specify):**	BAU, Sabour

OFT-10 (Agronomy)

i.	**Season:**	
ii.	**Title of the OFT**	**Improvement of Nitrogen use efficiency in wheat.**
iii.	**Thematic Area:**	INM
iv.	**Problem diagnosed**	**Excessive use of chemical fertilizer and Spiraling price of urea leads to increase in cost of cultivation**
v.	**Important Cause**	
vi.	**Production system:**	
vii.	**Micro farming system:**	
viii.	**Technology for Testing:**	Farmers 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.** **(Timely sown variety of BAU Sabour. BAU Ranchi and RPCAU, Pusa, ICAR RCER, Patna)** **Under Rice-Wheat cropping system.**
ix.	**Existing Practice:**	
x.	**Hypothesis:**	
xi.	**Objective(s):**	
xii.	**Treatments**	
xiii.	**Critical Inputs:**	
xiv.	**Unit Size:**	
xv.	**No of Replications:**	
xvi.	**Unit Cost:**	
xvii.	**Total Cost:**	
xviii.	**Monitoring Indicator:**	Plot size (10x10 m2)/ in each tech. option, soil data before and after (pH, EC, OC, NPK,), Yield data, No. of effective tillers/m2, 1000 grain wt., Panicle wt., Straw yield and Economics.
xix.	**Source of Technology (ICAR/AICRP/SAU/ Other, please specify):**	BAU, Sabour

19. List of Projects to be implemented by funding from other sources (other than KVK fund)

Sl. No.	Name of the project	Fund expected (Rs.)
1	Climate Resilient Agriculture Programme GOB	10000000.00
2	Assessment and refinement of short term technology, ATMA	75000.00
3	Skill Development Training (RPL+Domain) RYVK	1800000.00
4	NICRA Project	820000.00
5	Demonstration and popularization of dragon fruit in Koshi region.	750000.00
6	Makhana Development Scheme	150000.00
	Total	**13595000**

20. No. of success stories proposed to be developed with their tentative titles - 02

21. No. of Scientific Advisory Committee Meeting – 01

22. Soil and water testing

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	500	90	10	20	5	350	25	460	40	500	20	500
Water Samples	-	-	-	-	-	-	-	-	-	-	-	-
Other (Please specify)	-	-	-	-	-	-	-	-	-	-	-	-
Total	500	90	10	20	5	350	25	460	40	500	20	500

23. Fund requirement and expenditure (Rs.)*

Item	Fund required for 2023-24 (Rs.)
Pay & Allowances	**9500000.00**
Traveling allowances	**150000.00**
HRD	**25000.00**
Contingency	
Stationary & POL	**400000.00**
Training	**250000.00**
FLD	**75000.00**
OFT	**50000.00**
M.O.B	**800000.00**
Extension Activities	**30000.00**
Swachhta Expenditure	**30000.00**
Total	**11310000.00**

* Any additional requirement may be suitably justified.

24. Every KVK should bring a brief write-up supported by quality photographs about the technology having wide acceptability among the farming community of the district with factual data

Twisting technique of guava has got wide acceptability among the farming community of Kishanganj district. KVK Kishanganj has been popularizing this technology through training and awareness programme since last eight years. The success stories of farmers engaged in guava production through this technique are being published in print as well as electronic media such as uploading video on YouTube by KVK and BAU, Sabour. The area under guava cultivation has increased by 200 acres in the district under this technology. Through this technique farmer are getting a net income of rupees around one lakh fifty thousand per acre per annum.

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