ACTION PLAN, 2023

GENERAL INFORMATION ABOUT THE KVK, Madhepura

Introduction:

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KRISHI VIGYAN KENDRA, MADHEPURA OPP. OF INDIAN OIL PETROL PUMP, NH-107	9430943067	Madhepura.kvk@gmail.com

1. Name of host organization :

Address	Telephone		E mail
	Office	FAX	
Bihar Agricultural University, Sabour, Bhagalpur	0641 - 2452606	0641- 2452604	www.bausabour.org.in vcbausabour@gmail.com

2. Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Sr. Scientist & Head	Dr. Bipul Kumar Mandal	Sr. Scientist & Head	Permanent	OBC
2	SMS	Dr. Mithilesh Kumar Roy	SMS(Agronomy)	Permanent	OBC
3	SMS	Dr. Ram Prakash Sharma	SMS(Entomology)	Permanent	OBC
4	SMS	Dr. Sunil Kumar	SMS (Animal.Sc.)	Permanent	OBC
5	SMS	Sri Rahul Kr. Verma	SMS(Horticulture)	Permanent	General
6	SMS	Vacant			
7	SMS				
8	Farm Manager	Sri Mritunjay Kumar	Farm Manager	Permanent	OBC
9	Prog. Asst. (Lab)	Smt Rubi Kumari	Prog. Asst. (Lab)	Permanent	SC
10	Prog. Asst. (Comp.)	Smt. Neha Kumari	Prog. Asst. (Comp)	Permanent	OBC
11	Assistant	Sri Ratan Kumar	Assistant	Permanent	OBC
12	Stenographer	Sri Bikas Kumar	Stenographer	Permanent	OBC
13	Driver	Sri Santosh Kumar Diwana	Driver	Permanent	OBC
14	Driver	Sri Sanjay Kumar	Driver	Permanent	OBC
15	Supporting Staff	Sri Vidyanand Kumar	Supporting staff	Temporary	OBC
16	Supporting Staff	Sri Umesh Mandal	Supporting staff	Temporary	OBC

3. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	01.50
2.	Under Demonstration Units	00.30
3.	Under Crops	10.70
4.	Orchard/Agro-forestry	02.00
5.	Others with details	05.50
Total		**20.00**

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

<table>
<tr><th>S.N.</th><th>Item</th><th colspan="4">Information</th></tr>
<tr><td>1</td><td>Major Farming system/enterprise</td><td colspan="4">Rice based Farming system, Paddy –wheat-moong, paddy-Maize-Jute, paddy-maize-summer vegetables, paddy-maize-summer moong</td></tr>
<tr><td>2</td><td>Agro-climatic Zone</td><td colspan="4">North East Alluvial Plain. The Climate of this district is sub-tropical can be classified as humid to sub humid.</td></tr>
<tr><td>3</td><td>Agro ecological situation</td><td colspan="4">Three type of topography occur in the district such as upland medium, low land and chaur. The soil of upland is generally loamy sand to sandy loam silt loam to silt clay loam soils occur in medium upland, low land and chaur.</td></tr>
<tr><td>4</td><td>Soil type</td><td colspan="4">Loamy sand to silty clay loam. The soil of this district can be placed under Recent Alluvium and light textured, non-calcareous, non-saline, medium to poor in fertility with low water holding capacity. The organic matter content of the soil varies from 0.2 to 0.8 percent. Nitrogen, phosphorus, potassium, sulphur, zinc Copper and boron are deficient.</td></tr>
<tr><td>5</td><td>Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others</td><td>Crop</td><td>Area (ha)</td><td>Production (Qtl)</td><td>Productivity (Qtl /ha)</td></tr>
<tr><td></td><td></td><td>Rice</td><td>69.27</td><td>169.57</td><td>2448</td></tr>
<tr><td></td><td></td><td>Maize</td><td>43.85</td><td>269.85</td><td>61.54</td></tr>
<tr><td></td><td></td><td>Linseed</td><td>65</td><td>487.00</td><td>7.50</td></tr>
<tr><td></td><td></td><td>Sunflower</td><td>178</td><td>1780.00</td><td>10.00</td></tr>
<tr><td></td><td></td><td>Wheat</td><td>38.67</td><td>97.89</td><td>2531</td></tr>
<tr><td></td><td></td><td>Maize **</td><td>43.85</td><td>269.85</td><td>6154</td></tr>
<tr><td></td><td></td><td>Rice (Summer)</td><td>305</td><td>6954</td><td>22.80</td></tr>
<tr><td></td><td></td><td>Barley</td><td>37</td><td>231</td><td>5.76</td></tr>
<tr><td></td><td></td><td>Gram</td><td>438</td><td>2737</td><td>6.25</td></tr>
<tr><td></td><td></td><td>Pea</td><td>495</td><td>3093</td><td>6.25</td></tr>
<tr><td></td><td></td><td>Lentil</td><td>1857</td><td>11600</td><td>6.20</td></tr>
<tr><td></td><td></td><td>Rai</td><td>5000</td><td>37500</td><td>7.50</td></tr>
<tr><td></td><td></td><td>Linseed</td><td>1800</td><td>18000</td><td>10.00</td></tr>
<tr><td></td><td></td><td>Sunflower</td><td>245</td><td>1531</td><td>6.25</td></tr>
</table>

		Summer moong	1361.38	64000	7.521
		Pulses	21.60	13.00	602

6 Mean yearly temperature, rainfall, humidity of the district

Weather Data

Month	**Rainfall(mm)**	**Temperature^{0}C**		**Relative Humidity(%)**	
		Maximum	**Minimum**	**Morning**	**evening**
April 2023					
May 2023					
June 2023					
July 2023					
August 2023					
September 2023					
October 2023					
November 2023					
December 2023					
January 2024					
February 2024					
March 2024					

Source:- IRS, Madhepura

7 Production of major livestock products like milk, egg, meat etc.

Category	Population	Production	Productivity	Category
Cattle	2,47,439	-		Cattle
Crossbred	6,568	NA	8 litre	Crossbred
Indigenous	2,40,871	NA	1.5 litre	Indigenous
Buffalo	1,22,266	NA	2.5 litre	Buffalo
Sheep	1205	NA	NA	Sheep
Crossbred	-	-	-	Crossbreed
Indigenous	-	-	-	Indigenous
Goats	2,85,875	NA	0.5 litre	Goats
Pigs	9115	NA	NA	Pigs
Crossbred	67	NA	NA	Crossbred

		Indigenous	9048	NA	NA	Indigenous
		Rabbits	32	NA	NA	Rabbits
		Poultry	1,44,141	NA	NA	Poultry
		Hens	-	-	-	Hens
		Desi	-	-	-	Desi
		Improved	-	-	-	Improved
		Ducks	-	-	-	Ducks
		Source : Animal husbandry Deptt., Madhepura, 2012				

4. About District

DEMOGRAPHIC FEATURES	
Area (in ha.)	179.6
No. of Sub-Division	2
No. of Block	13
No. of Gram Panchayat	170
No. of Village	449
Total Population	15,26,646
Population Density (per sq. km.)	1116
SC Population	260461
ST Population	9295
Sex Ratio	911
Literacy rate	36.07%

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	North East Alluvial Plain. The Climate of this district is sub-tropical can be classified as humid to sub humid.	Three type of topography occur in the district such as upland medium, low land and chaur. The soil of upland is generally loamy sand to sandy loam silt loam to silt clay loam soils occur in medium upland, low land and *chaur*.

Source:

7. Agro ecological situation

S. No	Agro ecological situation	Area (ha)	Characteristics
1			Three type of topography occur in the district such as upland medium, low land and chaur. The soil of upland is generally loamy sand to sandy loam silt loam to silt clay loam soils occur in medium upland, low land and *chaur*.

8. Soil types

S. No	Soil type	Characteristics	Area in ha
1	**Loamy sand to silty clay loam**	Loamy sand to silty clay loam. The soil of this district can be placed under Recent Alluvium and light textured, non-calcareous, non-saline, medium to poor in fertility with low water holding capacity. The organic matter content of the soil varies from 0.2 to 0.8 percent. Nitrogen, phosphorus, potassium, sulphur, zinc Copper and boron are deficient.	

9. Area, Production and Productivity of major crops cultivated in the district

S.N.	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1	Rice	69.27	169.57	2448
2	Maize	43.85	269.85	61.54
3	Linseed	65	487.00	7.50
4	Sunflower	178	1780.00	10.00
5	Wheat	38.67	97.89	2531
6	Maize **	43.85	269.85	6154
7	Rice (Summer)	305	6954	22.80
8	Barley	37	231	5.76
9	Gram	438	2737	6.25
10	Pea	495	3093	6.25
11	Lentil	1857	11600	6.20
12	Rai	5000	37500	7.50
13	Linseed	1800	18000	10.00
14	Sunflower	245	1531	6.25
15	Summer moong	1361.38	64000	7.521
16	Pulses	21.60	13.00	602

10. Details of operational area / villages

S.N.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Madhepura	Gamhariya	Aurahi	Paddy, Wheat, Vegetable etc.	Sheath blight in Paddy	Training about disease of Paddy
2.	Madhepura	Madhepura	BalamGadhiya	Paddy, Wheat, Vegetable etc.	Sheath blight in Paddy& Imbalance use ofMicronutrient in cob borers.	Training about disease of Paddy& FLD on Boron application in caulliflower
3.	Madhepura	Madhepura	Sripur	Paddy, Wheat, Vegetable etc.	Sheath blight in Paddy, No use of sulphur in onion	Training about disease of Paddy& OFT in sulphur application in onion
4	Madhepura	Singheshwar	Sukhasan	Paddy, Wheat, Vegetable etc.	Sheath blight in Paddy, No use of sulphur in onion	Training about disease of Paddy
5.	Madhepura	Murliganj	Baghinya	Paddy, Sunflower & vegetables etc.	Sheath blight in Paddy, No use of sulphur in onion	Training about disease of Paddy
6.	Madhepura	Murliganj	Rampur, Terasi	Sunflower, Paddy	BLB Rodent in nursery of sunflower	Training about disease of Paddy
7	Madhepura	Madhepura	Jiwachhpur	Paddy, Maize	Cob borer in Maize	OFT for cob borer
8.	Madhepura	Madhepura	Tulsibari	Paddy, Maize& vegetables	Cob borer in Maize, Imbalance use of Boron in cauliflower & no use of sulphur in onion	OFT for cob borer, OFT in sulphur application in onion
9.	Madhepura	Madhepura	Mathahi	Paddy, Maize	Cob borer in Maize	OFT for cob borer
10.	Gwalpara	Gwalpara	Reshna	Paddy, Maize, wheat	Sheath blight in Paddy & Cob borer in Maize	CFLD on Rye, Lentil &moong, CSISA trial
11.	Mulriganj	Mulriganj	Chamgarh	Paddy, Maize, wheat	Sheath blight in Paddy & Cob borer in Maize	CFLD on sunflower, Rye, Lentil &moong,

12.	Madhepura	Madhepura	Sakarpura	Paddy, wheat & vegetables	Less area under cultivation of oilseed & pulses	CFLD on Rye, Lentil &moong,
13.	Kumarkhand	Kumarkhand	Parmanandpur	Paddy, wheat & vegetables	Less area under cultivation of oilseed & pulses	CFLD on Rye, Lentil &moong,
14.	Kumarkhand	Kumarkhand	Mangarwara	Paddy, wheat & vegetables	Less area under cultivation of oilseed & pulses, no use of sulphur in onion	CFLD on Rye, Lentil &moong, OFT in sulphur application in onion
15.	Ghailadh	Ghailadh	Bhantekthi	Paddy & Maize	Less area under cultivation of oilseed & pulses	CFLD on Rye, Lentil &moong, CSISA trial
16.	Murliganj	Murliganj	Bhatkhora	Paddy, Maize, wheat	Less area under cultivation of oilseed & pulses	CFLD on Rye, Lentil &moong, CSISA trial
17.	Gwalpara	Gwalpara	Shahpur	Paddy, Maize & Vegetables	Less area under cultivation of oilseed , pulses & vegetable pea	CFLD on Rye, lentil &Moong&FLDon Vegetable pea
18	Gwalpara	Gwalpara	Resana	Paddy, Maize & Vegetables	Traditional method of cultivation	Zero tillage cultivation of Paddy & wheat

11. Priority thrust areas

S. No	Thrust area
1.	Promotion of organic vegetable cultivation.
2.	Promotion and area expansion through chain system of Aromatic & medicinal crops
3.	Promotion of plant Growth Regulator in yield of increment in cucurbits, solanaceous & cole crops.
4.	Popularization of Drum stick.
5.	Promotion of high value low volume crops (Broccoli, capsicum, Red cabbage) & season vegetables.
6.	Promotion of Integrated Pest Management.
7.	Ensuring safe, judicious and quality pesticides for sustaining crop production from pests & disease.
8.	Promotion of bio-pesticide to minimize application of chemical pesticides.
9.	Popularization of seed treatment.
10.	Promotion of non-chemical method of insect pest management like use of pheromone trap.
11.	Breed up gradation of cattle poultry Duck piglets and goats.
12.	To provide veterinary services for proper preventive and creative measure for disease of livestock and birds.
13.	Need base Training programme to skill up gradation for livestock farmers and Technical personal of the department.
14.	Adoption of appropriate breeding policy for increasing productivity of local low yielding livestock and birds.
15.	Promotion & area expansion of Climate Resilient varietes & intervention
16.	Awareness on Nano urea application in crops
17.	Promotion & Emphasis on natural Farming
18.	Integrated weed management in crops

12. Training program to be organized (January 2022 to December 2022)

1. Agronomy

Thematic Area	Title of Training	Qr. No.	Duration	Venue OFF/On Campus	Tentative Date	Participants/Trainees								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
Weed Managemen	Weed Management in Kharif Crops	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**

t	Weed Management in Rabi Crops	1	3	ON		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Integrated Weed Management in Crops	1	3	ON		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Impact of climate change on weeds	1	3	ON/OFF		2	1	1	0	24	2	27	3	30
Resource Conservation Technology	SRI Methods in Paddy Cultivation	1	3	ON		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Zero tillage methods in wheat cultivation.	1	3	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	SRI Methods in Wheat Cultivation (SWI)	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Direct Seeding of Paddy.	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Conservation cultivation in perspective of climate change	1	3	ON		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
Cropping System	Crop planning in Madhepura District	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Intensification of existing cropping system like paddy – wheat.	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
Crop Diversification	Crop Diversification of existing cropping system like paddy – wheat.	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Production technology of baby corns in perspective of climate change existing cropping system like paddy – wheat	1	1	OFF		2	1	1	0	24	2	27	3	30
ntegrated farming	Integrated farming system as per Topography in Madhepura District.	1	3	ON		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**

Water Management	Water Management in Kharif Crops	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Water Management in Rabi Crops	1	3	ON		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Water Management in Rabi Crops	1	1	ON		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Water Management in Summer Crops	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Water management in perspective of climate change	1	1	ON		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
Seed Production	Seed Production Technique of Rice, Maize and Wheat.	1	3	ON		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Seed Production Technique of Pulses and Oil seed	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Post Harvest management and marketing of seeds	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
Nursery Management	Nursery management of Paddy	1	3	ON		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
Integrated Crop Management	Integrated Crop Management in Kharif Crop	1	3	ON		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Integrated Crop Management Rabi Crop	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Agronomic management intervention for climate resilient agriculture.	1	3	ON		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
Fodder production	Scientific method of fodder production	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Annual fodder production system	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Cultivation of fodder crops in perspective of climate change.	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**

Production of organic inputs	Production of NADEP compost	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
	Orgainic farming and traditional/conventional farming in Bihar	1	1	OFF		**2**	**1**	**1**	**0**	**24**	**2**	**27**	**3**	**30**
Rural Youth														
Seed Production	Seed production Technique of paddy	1	5	ON		5	0	0	0	20	0	25	0	25
	Seed production Technique of maize and wheat	1	10	ON		5	0	0	0	20	0	25	0	25
	Seed production Technique of pulse crops	1	5	ON		5	0	0	0	20	0	25	0	25
	Seed production Technique of oilseed crops	1	5	ON		5	0	0	0	20	0	25	0	25
Production of organic inputs	Production technique of NADEP compost	1	5	ON		5	0	0	0	20	0	25	0	25
Vermi Culture	Production technique of vermin compost at commercial level	1	7	ON		5	0	0	0	20	0	25	0	25
Extension Functionaries														
Productivity enhancement in field crops	Productivity enhancement in cereal crops	02	02	ON		02	0	0	0	54	04	56	04	60
	Productivity enhancement in oilseed and pulses crops	01	01	OFF		01	0	0	0	27	02	28	02	30
	Intensification and or diversification of existing cropping system like paddy-wheat system.	01	01	ON		01	0	0	0	27	02	28	02	30
Integrated nutrient management	Integrated nutrient management	01	01	ON		01	0	0	0	27	02	28	02	30

2. Horticulture

Thematic Area	Title of Training	Qr. No.	Duration	Venue OFF/On Campus	Tentative Date	Participants/Trainees								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
Layout & Management	Layout & Management of mango & guava orchards	02	01	OFF		5	3	0	0	10	7	15	10	25
Cultivation of vegetable	Scientific cultivation of cucumber	01	01	OFF		1	3	0	0	18	2	25	5	30
Yield increment	Use of PGR for the yield increment	01	02	ON		3	2	0	0	15	0	18	2	20
Tuber crop	Production & Management of amorphophallus	01	01	OFF		4	0	0	0	18	3	22	3	25
Integrated Nutrient Management	Integrated Nutrient Management of cucurbits	01	01	OFF		5	2	0	0	20	3	25	5	30
Tuber Crop	Production & Management of turmeric crop	01	02	ON		8	0	0	0	15	2	23	2	25
Cultivation of vegetable	Scientific cultivation of kharif onion	01	01	OFF		5	0	0	0	20	0	25	0	25
Nursery raising	Nursery raising techniques of solanaceous crop	01	02	ON		5	2	0	0	15	3	20	5	25
Grading & standardization	Use of grading & standardization of fruit and vegetable crop	01	02	ON		5	3	0	0	12	5	17	8	25
Propagation technique of fruit crop	Propagation technique of Mango & guava	02	02			5	2	0	0	12	6	17	8	25
Cultivation of vegetable	Scientific cultivation of vegetable (Tomato & Brinjal)	01	01	OFF		3	2	0	0	15	5	18	7	25

INM	INM in fruits crop (Mango, guava etc)	01	01	OFF		05	01	0	0	18	1	23	2	25
Nursery raising	Nursery raising of cauliflower	02	01	OFF		5	2	0	0	15	3	20	5	25
Production of low volume & high price	Production & Management of low volume & high price like(capsicum & Tomato)	01	02	ON		3	2	0	0	15	5	18	7	25
Cultivation of fruit	Scientific cultivation of papaya	01	01	OFF		05	03	0	0	10	7	15	7	22
Cultivation of vegetable	Scientific cultivation of early cauliflower	01	01	OFF		3	2	0	0	15	5	18	7	25
Protected cultivation	Cultivation of capsicum & tomato under poly house	01	02	ON		5	0	0	0	18	2	23	2	25
Tuber Crop	Scientific cultivation of early potato	01	01	OFF		6	0	0	0	12	7	18	7	25
Cultivation of vegetable	Scientific cultivation of vegetable pea	01	01	OFF		5	3	0	02	15	2	20	5	25
Cultivation of flower	Scientific cultivation of marigold	01	01	OFF		5	5	0	0	10	5	15	10	25
INM	Use of micro nutrient in mango crops	01	01	OFF		5	2	0	0	15	3	20	5	25
Cultivation of vegetable	Scientific cultivation of broccoli	01	01	OFF		7	0	0	0	18	0	25	0	25
Cultivation of vegetable	Scientific cultivation of Beans, Cluster beans & French beans	01	02	OFF		10	2	0	0	10	3	20	5	25
Cultivation of vegetables	Scientific cultivation of onion	01	02	ON		5	2	0	0	15	3	20	5	25
Cultivation of vegetable	Scientific cultivation of Root crops	01	01	OFF		10	2	0	0	10	3	20	5	25
Protected cultivation	Use of poly tunnel & cultivation of cucurbits in	01	01	OFF		3	2	0	0	15	5	20	5	25

	poly tunnel													
Training & pruining	Training & pruining of fruit crops	01	02	ON		5	1	0	0	16	3	21	4	25
INM	Integrated nutrient management in fruit crop (Mango & litchi)	01	02	ON		5	2	0	0	15	3	20	5	25
Cultivation of vegetables	Scientific cultivation of bottle gourd	01	01	OFF		6	2	0	0	14	3	20	5	25
Cultivation of vegetable	Scientific cultivation of Cowpea	01	01	OFF		5	3	0	0	15	2	20	5	25
Cultivation of vegetable	Scientific cultivation of Kharif okra	01	01	OFF		10	2	0	0	10	3	20	5	25
Cultivation of vegetable	Scientific cultivation of Ridge gourd /pointed gourd	01	02	ON		8	4	0	0	10	3	18	7	25
Cultivation of vegetable	Scientific cultivation of cucumber	01	01	OFF		10	3	0	0	10	2	20	5	25
Yield increment	Use of PGR in vegetable crops	01	01	OFF		8	4	0	0	12	1	20	5	25
Value addition	Value addition of fuit & vegetable crops	01	02	ON		12	4	0	0	8	1	20	5	25
Rural Youth														
Plant propagation	Plant propagation technique of fruit crop	01	04	ON		5	0	0	0	20	0	25	0	25
Protected cultivation	Protected cultivation of fruit &vegetable	01	04	ON		5	2	0	0	18	1	25	0	25
Skill	Seed Production technique of vegetable	01	04	ON		5	2	0	0	15	3	20	5	25
Extension Functionaries														
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

3. Plant Protection

Thematic area	Title of Training	Quarter	Duration	Venue	Tentative Date	Participants								
						SC/		ST		Other		Total		
						M	F	M	F	M	F	M	F	**T**
Practicing Farmer														
Integrated Pest Management	Control of store grain pests	01	01	OFF		4	1	2	1	15	2	21	4	25
Integrated Pest Management	Management of pest & disease in summer vegetable	02	02	OFF		8	2	4	2	30	4	42	8	50
Integrated Pest Management	Management of fall army worm in maize	02	02	OFF		8	2	4	2	30	4	42	8	50
Integrated Disease Management	Seed treatment with fungicide in summer & rainy crops	01	01	OFF		4	1	2	1	15	2	21	4	25
Integrated Disease Management	Disease management of paddy	04	04	OFF		16	4	8	4	60	4	84	16	100
Integrated Disease Management	Seed treatment with suitable fungicide in rabi crops	02	02	OFF		8	2	4	2	30	4	42	8	50
Integrated Pest Management	Insect pest management in paddy crop	02	02	OFF		8	2	4	2	30	4	42	8	50

Integrated Pest Management	Management of cucurbits fruit fly	01	01	OFF		4	1	2	1	15	2	21	4	25
Integrated Pest Management	Management of fruits& shrop borer in brinjal	01	01	OFF		4	1	2	1	15	2	21	4	25
Integrated Pest Management	Management of aphod in mustard	02	02	OFF		8	2	4	2	30	4	42	8	50
Integrated Pest Management	Management of disease & insect pest in mango	02	02	OFF		8	2	4	2	30	4	42	8	50
Production of bio control agent & bio-pesticides	Production of neem based pesticides	02	02	OFF		8	2	4	2	30	4	42	8	50
Rural youth														
Bee Keeping	Technique of honey production	05	06	ON		8	2	4	2	30	4	42	8	50
Mushroom Culture	Technique of Mushroom Production	03	05	ON		12	3	6	3	45	12	126	24	150
Extension Functionaries														
Integrated Pest Management	IPM in Kharif Crops	02	01	Off		8	2	4	2	30	4	42	8	50
Integrated Disease Management	IDM in Kharif crops	02	01	Off		8	2	4	2	30	4	42	8	50

Integrated Pest Management	IPM in Rabi crops	02	01	Off		8	2	4	2	30	4	42	8	50
Integrated Disease Management	IDM in Rabi Crops	02	01	Off		8	2	4	2	30	4	42	8	50

4. Animal Science

Thematic area	Title of Training	Quarter	Duration	Venue	Tentative Date	Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
Goatry Farming	Scientific Goat Farming	01	02	ON		12	4	0	0	8	1	20	5	25
Goatry Farming	Scientific Goat Farming	01	01	OFF		10	2	0	0	10	3	20	5	25
Goatry Farming	Scientific Goat Farming	01	01	OFF		10	2	0	0	10	3	20	5	25
Goatry Farming	Scientific Goat Farming	01	01	OFF		10	2	0	0	10	3	20	5	25
Goatry Farming	Scientific Goat Farming	01	01	OFF		10	2	0	0	10	3	20	5	25
Goatry Farming	Scientific Goat Farming	01	01	OFF		10	2	0	0	10	3	20	5	25
Feed Management	Fodder Production & their conservation	01	01	OFF		10	2	0	0	10	3	20	5	25
Feed Management	Feeding Management of Dairy Animal	01	01	OFF		10	2	0	0	10	3	20	5	25
Feed Management	Feeding Management of Goatry	01	01	OFF		10	2	0	0	10	3	20	5	25

Disease Management	Common disease of cattle & buffalo their treatment & vaccination	01	01	OFF		10	2	0	0	10	3	20	5	25
Disease Management	Common disease of cattle & buffalo their treatment & vaccination	01	01	OFF		10	2	0	0	10	3	20	5	25
Disease Management	Common disease of cattle & buffalo their treatment & vaccination	01	01	OFF		10	2	0	0	10	3	20	5	25
Disease Management	Important disease of Goatry	01	01	OFF		10	2	0	0	10	3	20	5	25
Disease Management	Important disease of Goatry	01	01	OFF		10	2	0	0	10	3	20	5	25
Disease Management	Important disease of Goatry	01	01	OFF		10	2	0	0	10	3	20	5	25
Quail Farming	Quail Farming	01	01	OFF		10	2	0	0	10	3	20	5	25
Dairy Management	Management of Dairy animal	01	02	ON		12	4	0	0	8	1	20	5	25
Dairy Management	Management of Dairy animal	01	01	OFF		10	2	0	0	10	3	20	5	25
Dairy Management	Management of Dairy animal	01	01	OFF		10	2	0	0	10	3	20	5	25
Poultry Management	Management of poultry	01	01	OFF		10	2	0	0	10	3	20	5	25
Poultry Management	Backyard poultry farming	01	01	OFF		10	2	0	0	10	3	20	5	25
Piggery	Pig farming in	01	01	OFF		10	2	0	0	10	3	20	5	25

	village													
Rural Youth														
Dairying	Dairy Management	01	04	ON		5	2	0	0	15	3	20	5	25
Dairying	Important disease of Dairy animal & their treatment & vaccination	01	01	OFF		5	2	0	0	15	3	20	5	25
Dairying	Artificial insemination technique	01	01	OFF		5	2	0	0	15	3	20	5	25
Sheep & Goat rearing	Goat Farming	01	04	ON		5	2	0	0	15	3	20	5	25
Sheep & Goat rearing	Goat Farming	01	04	ON		5	2	0	0	15	3	20	5	25
Poultry Production	Poultry farming	01	04	ON		5	2	0	0	15	3	20	5	25
Extension functionaries														
Management of Farm Animal	Management of dairy Farm Animal	01	01	OFF										**25**

2. Frontline demonstration to be conducted during 2023

Sl. No	Season	Crop/Enterprises	Variety/Technology	Area in ha.	No. of Demonstration
1	Summer 2023	Moong	Pendimethalin 30EC(PE) @ 1kg ai/ha at 0-3 DAS fb.Imazethaper (PoE) @ 40g ai./ha at 20-25 DAS	4.0	10

2	Kharif 2023	Finger Millet	Pretilachlor 50EC PE@1 kg ai/ha + bispyribac sodium 10 SC PoE@ 20 gram ai/ha	10.0	25
3	Kharif **202**3	Paddy	PyrazosulfuronEthyl 10% WP@20 g.ai/ha as PE + Bispyribac sodium 10 SC @ 20 g.ai/ha as PoE at 15-25 DAT.	6.0	15
3	Kharif/Pre Rabi 2022-23	Mango	Paclabutrazole @25-30ml/plant	10HHS	10
4	Kharif 2023	Brinjal	Streptocycline	1ha	10
5	Rabi 2023-24	Banana	PPV Bag in Banana	1 ha	10
6	Rabi 2023-24	Potato	PSB & Trichodarma	1 ha	10
7	Rabi 2023-24	Maize	Management of Fall army worm (Spodoptera frugiperda) in Maize	05	20
7	Kharif/Pre Rabi 2023-24	Mango	Management of Red banded caterpillar in Mango	05	20
8	Kharif/Pre Rabi 2023-24	Cucurbits	Management of fruit fly through pheromone traps.	10	50

Livestock

Category	**Thematic Area**	**Technology Demonstrated**	**No. of Farmers**	**No. of Cow**	**No. of Day**	**Cost**
Milch Cow	Disease Management	Validation of Ovysynch protocol in un-oestrus cow	10	15	60	12000.00

Goat	Feeding Management	Feeding of Hydroponic fodder of Oat @250 gram/day in goat	10	30	60	12000.00

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	**Paddy**	**6.0**	Pyrazosulfuron Ethyl 10% WP@20 g.ai/ha as PE + Bispyribac sodium 10 SC @ 20 g.ai/ha as PoE at 15-25 DAT.	Yield attributing characters, yield & economics	PyrazosulfuronEthyl 10% WP, Bispyribac sodium 10 SC	47000	36000	1	0	0	0	14	0	15	0	15
2	Moong	4.0	Pendimethalin 30EC(PE) @ 1kg ai/ha at 0-3 DAS fb.Imazethaper (PoE) @ 40g ai./ha at 20-25 DAS	Yield attributing characters, yield & economics	Pendimethalin 30EC(PE) Imazethaper 10 SC	18000	3000	1	0	0	0	9	0	10	0	10

3	Mango	10HHS	Paclabutrazole @25-30ml/plant	Yield attributing characters, yield & economics	Paclabutrazole	5000	1000	2	0	0	0	8	0	10		10
4	Brinjal	1ha	Streptocycline	Yield attributing characters, yield & economics	Streptocycline	2500	1000	2	0	0	0	8	0	10		10
5	Onian	0.5 ha	Sulfur	Yield attributing characters, yield & economics	Sulfur	3500	1500	2	0	0	0	8	0	10		10
6	Maize Rabi 2023-24	05	Management of Fall army worm (Spodoptera frugiperda) in Maize	Percent infestation yield and economics	Insecticides			2	0	0	0	18	0	0	0	20
7	Mango Kharif/Pre Rabi 2023-24	05	Management of Red banded caterpillar in Mango	Percent infestation yield and economics	Insecticides			2	0	0	0	18	0	0	0	20
8	Cucurbits Kharif/Pre Rabi 2023-24	10	Management of fruit fly through pheromone traps.	Percent infestation yield and economics	Pheromon traps			7	0	0	0	43	0	0	0	50

2.2 Cluster Frontline Demonstration (CFLD) conducted during F.Y. 2023-24

S.N.	Season	Crop	Variety	Target	
				No. of Demo	Area (ha.)
A. Pulse					
1	Kharif 2023	Pigeon Pea	IPA-203/ Available Vr.	50	20
2	Rabi 2023-24	Lentil	HUL-57/ IPL- 316	125	50
3	Summer 2024	Moong	HUM-16/ Virat	75	30
			A. Sub Total	**250**	**100**
B. Oilseeds					
1	Rabi 2023-24	Rapeseed/Mustard	R.Suflam	175	70
2.	Summer 2024	Sunflower	Hybrid	50	20
3.	Summer 2024	Lenseed	Garima / Available Vr.	25	10
			Sub Total B	**250**	**100**

13. **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
1.	Farmers training on "Nursery Masnagement of Paddy, Current RDF ,Weed management in wheat & Input distribution	03	PF & EF	01	ON	10	15	5	5	60	5	75	25	100
2.	Training cum field day on impact of Current RDF ,Paddy cv.Sabour Sampann in Paddy & Weed management in wheat	03	PF & EF	01	OFF	8	4	8	0	68	12	84	16	100
3.	Farmers training on bottle gourd, Cabbage & Drumstick & Input	3	PF & EF	3	ON	2	1	-	-	6	1	8	2	10

	distribution													
4.	Training cum field day	3	PF & EF	3	OFF	8	4	8	0	68	12	84	16	100
5.	Farmers training on Milch cow & Input distribution	2	PF & EF	2	ON	2	1	-	-	6	1	8	2	10
6.	Management of Fall army worm (Spodoptera frugiperda) in Maize	02	PF & EF	01	OFF	8	4	8	0	68	12	84	16	100
7.	Management of Red banded caterpillar in Mango	3	PF & EF	3	ON	2	1	-	-	6	1	8	2	10
8.	Management of fruit fly through pheromone traps	3	PF & EF	3	OFF	8	4	8	0	68	12	84	16	100

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

Name of the Crop / Enterprise	**Variety / Type**	**Period** **From 1Jan 2023 to Dec.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	R.M 1	Kharif 2023	6	C/S Seed	240	300000	960000	660000
Paddy	SabourSampann	Kharif 2023	4	C/S Seed	160	200000	640000	440000
Mango	All Vr.	Kharif 2023	3000			60000	210000	150000

(Plants/Scion)			(No.)					
Guava			100	Gootee plant		15000	40000	25000
Litchi			300			30000	120000	80000
Dragon Fruits			1000			10000	60000	50000
Vegetable seedlings			50000 (No.)	Seedlings		10000	50000	40000

b) Village Seed Production Programme : Not Applicable

Name of the Crop / Enterprise	**Variety / Type**	**Period From…… to ……..**	**Area (ha.)**	**No. of Farmers**	**Details of Production**				
					Type of Produce	**Expected Production(q)**	**Cost of inputs (Rs.)**	**Expected Gross income (Rs.)**	**Expected Net Income (Rs.)**

14. Extension Activities

Nature of Extension Activity	**No. of activities**	**Total**		
		Male	**Female**	**Total**
Field Day	35	25660	1348	27008
KisanMela	4	4283	223	4506
Kisan Ghosthi	12	860	44	904
Exhibition	3	2572	134	2706
Film Show	5	435	21	456
Method Demonstrations	10	860	43	903
Farmers Seminar	2	431	22	453
Workshop	5	432	22	454
Group meetings	5	433	21	454
Lectures delivered as resource persons	50	1718	88	1806
Scientific visit to farmers field	80	223	10	233
Farmers visit to KVK	`	862	44	906
Diagnostic visits	50	2145	111	2256

Exposure visits	5	2143	111	2254
Ex-trainees Sammelan	2	1715	89	1804
Soil health Camp	50	2143	112	2255
Animal Health Camp	25	2572	133	
Soil test campaigns	5	221	10	231
Farm Science Club Conveners meet	5	264	13	277
Self Help Group Conveners meetings	5	265	12	277
MahilaMandals Conveners meetings	1	862	43	905
Celebration of important days (specify)	10	8556	449	9005
Sankalp Se Siddhi	1	863	44	907
Swatchta Hi Sewa	25	17108	898	18006
Mahila Kisan Diwas	1	864	43	907
Parthenium week	10	863	44	907
Technology week	1	434	22	456

15. Revolving Fund (in Rs.)

Opening balance of As on 01.04.2021	Amount proposed to be invested during 2021-22	Expected Return
8626891.44	**700000 - 800000**	**1000000 - 12000000**

16. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
CIMMYT collaborative project – CSISA & ICAR	CIMMYT	100000/-
CRA Programme	Govt. of Bihar	23,60,000/-
PMKVY	G.O.I	3,50,000/-
Establishment of Small model Nursery-NHM	Govt. of Bihar	15,00,000/-
IFS	Govt. of Bihar	7,53,000/-
Garib Rojgar kalian Abhiyan	G.O.I	3,28,000/-

17. On-farm trials to be conducted*

ON FARM TRIAL (2023-24)

OFT-1 (AGRONOMY) : NEW

I	**Season**	Rabi 2023-24
Ii	**Title of the OFT**	Improvement of Nitrogen use efficiency in Wheat
Iii	**Thematic Area**	Nutrient Management
Iv	**Problem diagnosed**	Excessive use of chemical fertilizer and spiraling price of urea leads to increase in cost of cultivation
V	**Important Cause**	Prevention from scarcity, Environmental pollution,Cost minimization & maximize profit.
Vi	**Production system**	Rice –wheat –Moong , Rice-Rabi maize
Vii	**Micro farming system**	Nutrient Management.
Viii	**Technology for Testing**	To find out appropriate nutrient management method in Wheat.
Ix	**Existing Practice**	Application of granular DAP in soil.
X	**Hypothesis**	Nano fertilizer increase soil fertility, yield and quality of crops, they are nontoxic and less harmful to environment and humans, they minimize cost and maximize profit.
Xi	**Objective(s)**	o find out appropriate source & method of nitrogenous fertilizer application.
Xii	**Treatments**	**Farmers Practice:** RDF (100:40:20) kg/ha **T.O. I :** 50%of RDN & 100% PK+nano urea@4ml/lit. water (single spray at pre flowering stage35 DAS) **T.O.II :** 50%of RDN & 100% PK + 2 spray of Nano urea at (25- 30 DAS) and (60-65 DAS) @ 4 ml/lit water(Timely sown

		variety at BAU, Sabour) under Rice wheat cropping system.
Xiii	**Critical Inputs**	Nano - urea & insecticide, fungicide as per need
Xiv	**Unit Size**	0.4 ha
Xv	**No of Replications**	08
Xvi	**Unit Cost**	Rs. 2000
Xvii	**Total Cost**	Rs. 10,000
Xviii	**Monitoring Indicator**	Soil data,Harvest index, Yield attributing Characters, Yield & Economics
Xix	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)**	OFT finalization held on 01-03 Sep. 2022 committee member of house as per proceeding on dated 22.09.2022 ATARI, Patna

OFT-2 (AGRONOMY) : NEW

I	**Season**	Rabi 2023-24
Ii	**Title of the OFT**	Diversification of Rice based cropping system.
Iii	**Thematic Area**	Nutrient Management
Iv	**Problem diagnosed**	To reduce the chemical fertilizer used Spiraling price of urea leads to increasing price.
V	**Important Cause**	Prevention from scarcity of urea and pollution of drinking water.
Vi	**Production system**	Rice –wheat –Moong , Rice-Rabi maize
Vii	**Micro farming system**	Nutrient Management.
Viii	**Technology for Testing**	To find out appropriate nutrient management method in wheat.
Ix	**Existing Practice**	Application of granular urea as top dressing in soil.
X	**Hypothesis**	Rabi 2022-23
Xi	**Objective(s)**	Influence of Urea Nano-urea fertilizer on the growth and yield of wheat.
Xii	**Treatments**	**Farmers Practice –** Rice-wheat (Prominent cropping system of district) **T.O I** – Rice- Rabi Maize + Potato **T.O II** – Rice- Rabi Maize + vegetable pea **T.O III** – Rice- Wheat- Green gram

Xiii	**Critical Inputs**	Seed (Rice,Rabi maize,Potato,Vegetable Pea,Wheat,Green gram).
Xiv	**Unit Size**	10X 10 m^2 in each Tech.Option
Xv	**No of Replications**	06
Xvi	**Unit Cost**	Rs. 2000
Xvii	**Total Cost**	Rs. 10,000
Xviii	**Monitoring Indicator**	Soil data before and after (pH,EC,OC,NPK),Yield data ,No.of effective tillers/m^2,Length of earhead(cm),No.of grain per earhead,1000 grain wt.(gm),Grain (q/ha) , Straw yield (q/ha) and Economics.
xix	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)**	OFT finalization held on 01-03 Sep. 2022 committee member of house as per proceeding on dated 22.09.2022 ATARI, Patna

OFT-3 (AGRONOMY) : New

I	**Season**	Kharif 2023
Ii	**Title of the OFT**	Improvement of nitrogen use efficiency in rice .
Iii	**Thematic Area**	Nutrient Management
Iv	**Problem diagnosed**	To reduce the chemical fertilizer used Spiraling price of urea leads to increasing price.
V	**Important Cause**	Prevention from scarcity, Environmental pollution,Cost minimization & maximize profit.
Vi	**Production system**	Rice –wheat –Moong , Rice-Rabi maize
Vii	**Micro farming system**	Nutrient Management.
Viii	**Technology for Testing**	To find out appropriate nutrient management method in Rice.
Ix	**Existing Practice**	Application of granular DAP in soil.
X	**Hypothesis**	Nano fertilizer increase soil fertility, yield and quality of crops, they are nontoxic and less harmful to environment and humans, they minimize cost and maximize profit.
Xi	**Objective(s)**	To find out appropriate source & method of nitrogenous fertilizer application.
Xii	**Treatments**	**Farmers Practice –** RDF (100:40:20)kg/ha. **T.O I –** 50% RDN and 100% PK+ Nano urea (4 ml/litre)

		water (Single spray at pre flowering stage). **T.O II -** 50% RDN and 100% PK+ 2 spray of Nano urea at (25 to 30 DAT) and 55 DAT @ 4ml/lt water (specially for medium duration variety).
Xiii	**Critical Inputs**	Nano - urea & insecticide, fungicide as per need
Xiv	**Unit Size**	0.4 ha
Xv	**No of Replications**	08
Xvi	**Unit Cost**	Rs. 2000
Xvii	**Total Cost**	Rs. 10,000
Xviii	**Monitoring Indicator**	Soil data,Harvest index, Yield attributing Characters, Yield & Economics
xix	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)**	OFT finalization held on 01-03 Sep. 2022 committee member of house as per proceeding on dated 22.09.2022 ATARI, Patna

OFT-4 (Entomology)-

I	**Season**	Rabi 2023
Ii	**Title of the OFT**	**Assessment of management practices for Red banded caterpillar in Mango**
Iii	**Thematic Area**	Integrated Pest Management.
Iv	**Problem diagnosed**	Red banded caterpillar appeared as a major insect pest of mango which generally appear on the stage of marble size fruit and bore the fruits resulted rotting and fruit drops. It causes heavy losses to growing fruits resulted premature falling and hence poor fruiting of orchards.
V	**Important Cause**	Caterpillar bores developing fruits and causes premature falling.
Vi	**Production system**	Small Production system
Vii	**Micro farming system**	Mango cultivation
Viii	**Technology for Testing**	Assessment of insecticides for management of the pest.
Ix	**Existing Practice**	Spray of Chlorpyriphos as and when symptom appear.
X	**Hypothesis**	Removal of affected fallen fruits and spray of agro chemicals may mange the infestation of fruits by the pest.
Xi	**Objective(s)**	To asses effective practices for management of the pest.
Xii	**Treatments**	Farmers Practice – Spray of Chlorpyriphos as and when symptom appear T. O I – • Collection and distraction of all fallen fruits. • Spray deltamethrin 0.0028%(deltamethrin 2.8 EC@ 1 ml/ lit) at marble size and repeat after two weeks.

		T.O II – • Two Spray of thiacloprid 21.7SC 0.04%@2 ml/lit at 25-30 days interval. Note:- All spray during mornig hours.
Xiii	**Critical Inputs**	Agro chemicals.
Xiv	**Unit Size**	10 plants.
Xv	**No of Replications**	10 Farmers
Xvi	**Unit Cost**	1000-1500
Xvii	**Total Cost**	10000-15000
Xviii	**Monitoring Indicator**	Infestation, Yield , Economic analysis & B:C Ratio
xix	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)**	ATARI, PATNA (Proceeding of OFT Workshop, Plant Protection held on 29-30 Sept. 2022 mailed on 19.10.2022

OFT-5 (Entomology) New

I	**Season**	Kharif 2023
Ii	**Title of the OFT**	**Assessment of fungicides for the management of Sheath blight of Rice**
Iii	**Thematic Area**	***Integrated Disease Management***
Iv	**Problem diagnosed**	Low yield of rice due to heavy infestation of Sheath blight
V	**Important Cause**	Infestation of sheath blight causing rotting of sheath of paddy started from 30 days after transplanting.
Vi	**Production system**	Rice wheat cropping system
Vii	**Micro farming system**	Fungal infection
Viii	**Technology forTesting**	Evaluation of different fungicides for the management of sheath blight
Ix	**Existing Practice**	Spray of hexaconazole 5EC @2ml/lit when symptom appear on leaves.
X	**Hypothesis**	Combination of fungicides or thifluzamide 24 SC@1 ml/lit may manage the infestation of sheat blight
Xi	**Objective(s)**	Evaluation of efficacious fungicides
Xii	**Treatments**	PF: Spray of hexaconazole 5 EC@2ml/lit when symptom appear T1= Spray of propiconazole 13.9% +difenoconazole 13.9EC @500ml/ha. T2 = Spray of thifluzamide 24 SC@1 ml/lit water (45 days after transplanting)
Xiii	**Critical Inputs**	Fungicides
Xiv	**Unit Size**	0.2 ha
Xv	**No of Replications**	10
Xvi	**Unit Cost**	1500-1800
Xvii	**Total Cost**	15000-18000
Xviii	**Monitoring Indicator**	Infestation, Yield , Economic analysis & B:C Ratio
Xix	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)**	ATARI, PATNA (Proceeding of OFT Workshop, Plant Protection held on 29-30 Sept. 2022 mailed on 19.10.2022

OFT : 6 (Horticulture)

i	Season	Kharif -2023
ii	Title of the OFT	Assessment of bio control agent farm management of Panama wilt in Banana
iii	Thematic Area	INM
iv	Problem diagnosed	Low yield due to wilting
v	Important Cause	Seedling treatment is not practiced by farmers
vi	Production system	Banana +Maize
vii	Micro farming system	Pea- Maize - banana
viii	Technology for Testing	To find out suitable bio control agent to control wilting
ix	Existing Practice	Farmers don't use bio control agent
x	Hypothesis	Use of bio control agent to control the wilting and increase the yield of Banana.
xi	Objective(s)	Higher yield through use of appropriate bio agent
xii	Treatments	**Farmers practice-** Tissue culture plant **TO1**- ICAR Fusicont **TO2**- Sabour trichodarma - 1
xiii	Critical Inputs	ICAR fusicont + Sabour trichodarma -1
xiv	Unit Size	2000 meter2
xv	No of Replications	10
xvi	Unit Cost	1000 appx
xvii	Total Cost	10000 appx
xviii	Monitoring Indicator	Initial plant population 1st wilt incidence (Day after transplanting) wilting % at 15,30,45,60,75 DAT Yield quintal /ha, BCR
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	ATARI, PATNA (Proceeding of OFT Workshop, Horticulture held on 23-24 Sept. 2022)

OFT-7 (Horticulture)

i	Season	Rabi 2023-24
ii	Title of the OFT	Assessment of Bio mass mulching in mango
iii	Thematic Area	RCT
iv	Problem diagnosed	Low yield due to moisture conservation
v	Important Cause	
vi	Production system	Mango + turmeric
vii	Micro farming system	ICM
viii	Technology for Testing	

ix	Existing Practice	Farmers don't use bio mass near root
x	Hypothesis	
xi	Objective(s)	To improve soil health and weed control
xii	Treatments	**F:P: No mulching / litter fall of trees** **TO.1:** Taphrosia 1 kg dry biomass/ m^2 canopy- (Plant spread) **TO.2:** Grass / paddy straw / any local available mulching 15cm thick (plant spread) + greece band 30 cm from Gl
xiii	Critical Inputs	Taphrosia grass, greece band
xiv	Unit Size	10 HHs
xv	No of Replications	10
xvi	Unit Cost	Rs. 500.00
xvii	Total Cost	Rs.5000.00
xviii	Monitoring Indicator	Soil moisture percentage, Weed count @34 intimment stage at one month inteval, NPK status pre and post, yield (kg/plant) or (quintal/ha), economics Rs./ha
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	ATARI, PATNA (Proceeding of OFT Workshop, Horticulture held on 23-24 Sept. 2022)

OFT: 9 (Animal science)

i	Season	Kharif -2022
ii	Title of the OFT	Effect of feeding and local application of herbal medicine on clinical and sub-clinical mastitis in cow
iii	Thematic Area	Disease Management
iv	Problem diagnosed	Mastitis is the major problem in milch cow. Its treatment is very costly and reduction in milk production.
v	Important Cause	Unhygienic milking
vi	Production system	Small production system
vii	Micro farming system	Unhygienic milking
viii	Technology for Testing	To test the herbal medicine to control mastitis problem in milch cow
ix	Existing Practice	Hot fermentation+aconite 30@10 pills@3 hrs. interval 4 times.
x	Hypothesis	To maintain the hygienic milking to be controlled the mix infection by herbal medicine
xi	Objective (s)	Minimize the treatment cost by use of herbal medicine
xii	Treatments	All the animals were dewormed before starting trial **Farmers Practice**–Hot fermentation+aconite 30@10 Pills at 3 hrs. interval 4 times. **T.O I** – Herbal gel application 4-5 times for 5 days and oral herbal 80ml orally 3 days. **T.O II**–Transit feed permits (Trace mineral,Vit E &

		Selenium)@100 gm/day for 7 days.
xiii	Critical Inputs	Medicine
xiv	Unit Size	07 milch cow
xv	No of Replications	03
xvi	Unit Cost	4000
xvii	Total Cost	12000
xviii	Monitoring Indicator	Total milk yield, milk color, Milk PH, BCR
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	BASU, Patna

OFT: 10 (Animal science)

i	Season	Rabi-2022-23
ii	Title of the OFT	Effect of Harbal mixture on repeat breeding in dairy animal
iii	Thematic Area	Disease Management
iv	Problem diagnosed	Repeat breeding is a major problem in Dairy Animal. Its causes financial losses to dairy farmers
v	Important Cause	Hormonal in balance
vi	Production system	Small production
vii	Micro farming system	Mal nutrition
viii	Technology for Testing	To test the herbal mixture having curry leaves (50gram), turmeric powder (5gram), radish (1), Moringa leaves (100gram), Alovera pulp (100gram), Cissus stem (100gram), Jaggery (100gram) and salt (25gram)
ix	Existing Practice	Deworming and miniral mixture feeding
x	Hypothesis	Herbal mixture balance the harmonal problems and positive effect on repeat breeding dairy animal.
xi	Objective (s)	To find out the appropriate feeding materials and their dose to resolve the repeat breeding problem in dairy animals.
xii	Treatments	Farmers Practice – Deworming and miniral mixture 50 gram daily T.O I – FP + 1st injection of Buserelin(GnRH) 20 microgram(5ml) I/M, 6 h before the AI and 2nd on day 12 h after last insemination. T.O II – FP+herbal mixture having curry leaves (50gram), turmeric powder (5gram), radish (1), Moringa leaves (100gram), Alovera pulp (100gram), Cissus stem (100gram), Jaggery (100gram) and salt (25gram) for 5 days.
xiii	Critical Inputs	herbal mixture and Buserelin (GnRH)
xiv	Unit Size	07 cows in one treatment
xv	No of Replications	10

xvi	Unit Cost	3000
xvii	Total Cost	12000
xviii	Monitoring Indicator	No. of cycle repeated or no. of day require for successful conception, reduction of cost of maintenance ration .
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	NDDB Website

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

S. N.	Name of the project	Fund expected (Rs.)
1	CIMMYT collaborative project – CSISA & ICAR	1,00000/-
2	CRA Programme	23,60,000
4	Establishment of Small model Nursery-NHM	15,00,000/-
5	IFS	7,53,000/-

19. No. Of success stories proposed to be developed with their tentative titles – 6

1	Formation of Marketing hub. For aromatic crops
2	Conversion of Unfertile sandy land into Highly Profitable AgriculturalPractices.
3	Resource Conservation Technology
4	Mushroom Production and value addition of Mushroom
5	Diversification through Dairing and Organic Farming
6	Diversification through Medicinal and Aromatic cultivation and processing.

20. Scientific Advisory Committee

Date of SAC meeting held during 2022-23	Proposed date during 2023-24
20.07.2022	19.06.2023

21. 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	20		8		360	112	388	112	500	20	5

22. Fund requirement and expenditure (Rs.)*

Item	Fund required for 2023-24
Pay & Allowances	16294288
General Recurring	786500
Non-Recurring	0.0

23. **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**