



# **ACTION PLAN**

## **2023-24**

**KRISHI VIGYAN KENDRA, PURI**

**ODISHA UNIVERSITY OF AGRICULTURE & TECHNOLOGY**

**ICAR ATARI, KOLKATA**

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**REVISED PROFORMA FOR ACTION PLAN 2023-24**

**1. Name of the KVK:**

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**2. Name of host organization:**

Address	Telephone		E mail
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Orissa University of Agriculture & Technology Bhubaneswar-751003 Odisha, India.	(0674)-2397970/ 2397818/ 2397719/ 2397669 / 2397719 / 2397919 / 2397868		registrarouat@gmail.com

**3. Training programme to be organized (April 2023 to March 2024)**

**(a) Farmers and farmwomen**

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants												
						SC		ST		Other		Total						
						M	F	M	F	M	F	M	F	T				
<b>Agronomy</b>																		
INM	Training on Nitrogen management by LCC in Rice	1	1	Off	July													30
IWM	Training on mechanical and cultural methods of weed management in rice	1	1	Off	Aug													30
INM	Training on integrated nutrient management in Groundnut	1	1	Off	Aug													30
IWM	Training on IWM in rice	1	1	Off	Aug													30
ICM	Training on weed management in	1	1	Off	Sept													30

	maize														
IWM	Integrated Nutrient Management in Green gram	1	1	Off	Sept										30
Ecosystem protection	Training on adverse effect of residue burning and alternative way of rice residue management	1	1	Off	Oct										30
WM	Training on types of nozzles, sprayer and spraying techniques of herbicides in Rice	1	1	Off	Nov										30
INM	Seed treatment in pulse crop through microbial culture	1	1	Off	Jan										30
Soil testing	Training on methods of Soil sample collection, processing of soil sample and testing of different nutrient by Mrida Parikshyak	1	1	Off	Jan										30
INM	Training on deficiency symptoms of micronutrients and their management	1	1	Off	Feb										30
<b>Horticulture</b>															
HOV	Agro techniques for Okra	1	1	Off	July										30
HOV	Agro-techniques for Chilli cultivation	1	1	Off	Aug										30
HOV	Off-season Tomato cultivation	1	1	Off	Aug										30
HOV	Management of vegetable	1	1	On	Sept										30

	nursery																
HOV	INM in Cole crops	1	1	On	Sept												30
HOV	Use of growth regulators in vegetables	1	1	On	Oct												30
HOV	Agro-techniques for Bitter gourd cultivation	1	1	Off	Nov												30
HOV	Package of practices for pointed gourd cultivation	1	1	Off	Dec												30
HOV	Agro techniques of okra cultivation	1	1	Off	Jan												30
HOV	Production technology of pod vegetables	1	1	On	Jan												30
HOV	Package of practices for Brinjal cultivation	1	1	Off	Feb												30
<b>Plant Protection</b>																	
Integrated Pest Management	Management of Stem Borer in Summer rice	1	01	off	Jan.												30
Integrated Pest Management	BPH / WBPH management in rice	1	01	off	Aug.												30
Integrated Disease Management	Management of Sheath blight in rice	1	01	off	Sept.												30
Integrated Disease Management	Management of leaf minor in tomato	1	01	off	November												30
Integrated Pest Management	IPM measures for management YMV in Greengram	1	01	off	Feb.												30
Integrated Disease Management	Integrated management of Rhinoceros beetle and red	1	01	off	March												30

	palm weevil in coconut																
Integrated Disease Management	Management of vine rot in betel vine	1	01	off	June												30
Integrated Disease Management	Management of Tikka disease in Groundnut	1	01	off	November												30
Integrated Pest Management	IPM measures for management of sucking pest in chilli	1	01	off	December												30
Integrated Pest Management	IPM measures for management of shoot and fruit borer in Brinjal	1	01	off	Sept.												30
Integrated Pest Management	Management of spiraling white fly	1	01	off	May												30
Integrated Disease Management	Integrated management of Panama wilt in Banana	1	01	off	Oct												30
<b>Agril. Engineering</b>																	
Farm Mechanization	Operation and maintenance of Farm machineries available for Direct seeding of Rice.	1	01	off	June												30
Farm Mechanization	Training on MAT type nursery raising for using manual and mechanical Transplanters	1	01	off	July												30
Farm Mechanization	Use of mini Pan evaporimeter for on-farm irrigation scheduling in Rice	1	01	off	July												30
Micro Irrigation	Micro Irrigation system management	1	01	off	October												30
Farm Mechanization	Operation and maintenance of Seed cum fertilizer drill for sowing groundnut	1	01	off	December												30
Micro Irrigation	Crop protection from Frost	1	01	off	September												30

	damage using different types of Sprinklers																
Farm Mechanization	Operation and maintenance of Power operated Groundnut Decorticator	1	01	off	November												30
Farm Mechanization	Operation & maintenance of Self-Propelled Digger	1	01	off	February												30
Drudgery reduction	Use of small tools and farm implements for drudgery reduction of farm women	1	01	off	February												30
Farm Mechanization	Operational procedure of coconut climber	1	01	off													30
Irrigation water management	Irrigation scheduling in field crops and vegetable crops	1	01	off													30
Food processing	Operation of Badi making machine	1	01	off													30
<b>Fishery</b>																	
Biofloc Farming	Package of practices for biofloc fish farming	1	01	Off	May												30
Composite fish culture	Pre stocking and post stocking pond management	1	01	Off	June												30
Composite fish culture	Composite fish culture	1	01	Off	June												30
Composite fish culture	Multiple stocking and multiple harvesting method in IMC culture	1	01	Off	July												30
Disease management	Fish diseases and their management	1	01	Off	September												30
Composite fish culture	Scientific mono-sex GIFT tilapia farming	1	01	Off	September												30
Crab fattening	Recent advances in BW crab culture	1	01	Off	October												30

Integrated Farming	Integrated fish Farming	1	01	Off	October										30
Composite fish culture	Intercropping of Minor carps & barbs in composite carp culture	1	01	Off	December										30
Feeding management	Artificial Feeding management in carp culture	1	01	Off	December										30
Composite fish culture	Composite carp culture in community tank by WSHGs	1	01	Off	January										30
Composite fish culture	Breeding and seed production of Amur carp in village ponds	1	01	Off	January										30
Composite fish culture	Adverse aquatic environment of fish ponds & its remedial measures	1	01	Off	February										30
<b>Home science</b>															
Nursery Management	Nursery management for income generation	1	1	Off	September										30
Household food security by kitchen gardening and nutrition gardening	Organic Nutritional Gardening Establishment and importance	1	1	Off	August										30
Value addition	Preparation of Paneer from milk	1	1	Off	August										30
Value addition	Packaging paddy straw mushroom to enhance shelf life	1	1	Off	July										30
Production of organic inputs	Production technique of vermicompost from spent mushroom substrate	1	1	On	November										30
Income	Oyster Mushroom	1	1	On	November										30

Generation	Cultivation																	
Income generation activity for empowerment of rural women	Cultivation practices of Tulsi in backyard	1	1	On	December													30
Value addition	Drying of oyster mushroom	1	1	Off	February													30
Animal Nutrition management	Preparation of millet cookies	1	1	Off	October													30
Income generation activities for empowerment of rural Women	Quail farming-scope & management practices	1	1	Off	January													30
Enterprise development	Milky Mushroom Cultivation	1	1	Off	July													30
Enterprise development	Improved Techniques of Mushroom production for income generation	1	1	Off	August													30
Location specific drudgery reduction technologies	Use of women friendly equipment for drudgery reduction	1	1	Off	June													30
<b>Total</b>																		<b>2160</b>

**(b) Rural youths**

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants												
						SC		ST		Other		Total						
						M	F	M	F	M	F	M	F	T				
<b>Agronomy</b>																		
Composting method	Training on methods of preparation & use of organic inputs	1	2	On	Feb													20
Bio-fertilizer	Training on BGA and Azolla	1	2	On	Mar													20



	cultivation																		
<b>Horticulture</b>																			20
HOV	Protected cultivation of vegetable	1	2	On	Feb														20
HOV	Commercial nursery raising of vegetable	1	2	On	Mar														20
<b>Plant Protection</b>																			
Production of bio control agents and bio pesticides	Production of bio pesticide	1	02	On	October														20
Production of bio control agents and bio pesticides	Preparation of botanical pesticides & ITKs	1	02	On	January														20
<b>Agril. Engineering</b>																			
Farm Mechanization	Custom hiring of Self-propelled Paddy Reaper	1	02	On	August														20
Post harvest management	Operation & maintenance of Rice mill, Dal mill and Oil mill	1	02	Off	November														20
<b>Fishery</b>																			
Production and management	Round the year fish seed production technology	1	2	On	August														20
Production and management	Ornamental fish (Egg layers) breeding technology	1	2	On	August														20
Production and management	Vocational training for fish seed producers	1	5	On	February														20
<b>Home science</b>																			
Value addition	Preparation of value-added products from millet	1	2	Off	October														20
Beekeeping	Honey bee rearing as a subsidiary occupation for income generation	1	2	On	December														20
Mushroom	Mushroom Spawn	1	5	On	September														10

Production	Production																	
<b>Total</b>		<b>14</b>																<b>290</b>

(c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/ Off	Tentative Date	No. of Participants												
						SC		ST		Other		Total						
						M	F	M	F	M	F	M	F	T				
<b>Agronomy</b>																		
Chemical weed management	Different types of new generation herbicide for weed	1	1	On	January													20
Soil Health Management	Management of problem soil in the district	1	1	On	February													20
<b>Horticulture</b>																		
HOV	Physiological disorders in vegetables	1	1	On	February													20
<b>Plant Protection</b>																		
IDM	Integrated disease and pest management in Paddy	1	02	Off	Sept													20
IPM	Fruit fly management in gourds	1	02	On	Dec													20
<b>Agril. Engineering</b>																		
Micro Irrigation	Fertigation Technology	1	01	Off	January													20
Farm Mechanization	Safety precautions while using tractor and power tiller	1	01	On	February													20
<b>Fishery</b>																		
Biofloc fish farming	Biofloc Fish farming	1	02	On	July													20
Production & management	Recent advances in brackish water aquaculture	1	02	On	October													20
<b>Home science</b>																		
Women and Child care	Nutritional & Health Benefits of millets	1	1	Off	July												20	20

Income generation	Entrepreneurship development of WSHGs and SHG Management	1	1	On	February									20	20
<b>Total</b>		<b>11</b>													<b>220</b>

**Abstract of Training: Consolidated table (ON and OFF Campus)**

**Farmers and Farm women**

Thematic Area	No. of Courses	No. of Participants									Grand Total				
		Other			SC			ST			M	F	T		
		M	F	T	M	F	T	M	F	T					
<b>I. Crop Production</b>															
Weed Management	4														120
Resource Conservation Technologies															
Cropping Systems															
Crop Diversification															
Integrated Farming															
Water management															
Seed production															
Nursery management															
Integrated Crop Management	1														30
Fodder production															
Production of organic inputs															
Integrated Nutrient Management	4														120
Ecosystem protection	1														30
<b>TOTAL</b>	<b>10</b>														<b>300</b>
<b>II. Horticulture</b>															
<b>a) Vegetable Crops</b>															
Integrated nutrient management	2														60
Water management															
Enterprise development															
Skill development															
Yield increment															
Production of low volume and high value crops															
Off-season vegetables	1														30
Nursery raising	1														30
Exotic vegetables like Broccoli															
Export potential vegetables															
Grading and standardization															
Protective cultivation (Green Houses, Shade Net etc.)															
Integrated crop management	7														210
<b>TOTAL</b>	<b>11</b>														<b>330</b>

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
<b>b) Fruits</b>														
Training and Pruning														
Layout and Management of Orchards														
Cultivation of Fruit														
Management of young plants/orchards														
Rejuvenation of old orchards														
Export potential fruits														
Micro irrigation systems of orchards														
Plant propagation techniques														
Others, if any(INM)														
TOTAL														
<b>c) Ornamental Plants</b>														
Nursery Management														
Management of potted plants														
Export potential of ornamental plants														
Propagation techniques of Ornamental Plants														
Others, if any														
TOTAL														
<b>d) Plantation crops</b>														
Production and Management technology														
Processing and value addition														
Others, if any														
TOTAL														
<b>e) Tuber crops</b>														
Production and Management technology														
Processing and value addition														
Others, if any														
TOTAL														
<b>f) Spices</b>														
Production and Management technology														
Processing and value addition														
Others, if any														
TOTAL														
<b>g) Medicinal and Aromatic Plants</b>														
Nursery management														
Production and management technology														
Post harvest technology and value addition														

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Others, if any														
<b>TOTAL</b>														
<b>III. Soil Health and Fertility Management</b>														
Soil fertility management														
Soil and Water Conservation														
Integrated Nutrient Management														
Production and use of organic inputs														
Management of Problematic soils														
Micro nutrient deficiency in crops														
Nutrient Use Efficiency														
Soil and Water Testing	1													30
Others, if any														
<b>TOTAL</b>	<b>1</b>													<b>30</b>
<b>IV. Livestock Production and Management</b>														
Dairy Management														
Poultry Management														
Piggery Management														
Rabbit Management														
Disease Management														
Feed management														
Production of quality animal products														
Others, if any (Goat farming)														
<b>TOTAL</b>														
<b>V. Home Science/Women empowerment</b>														
Household food security by kitchen gardening and nutrition gardening	1													30
Design and development of low/minimum cost diet														
Designing and development for high nutrient efficiency diet														
Minimization of nutrient loss in processing														
Gender mainstreaming through SHGs														
Storage loss minimization techniques														
Enterprise development	1													30
Value addition	4													120
Income generation activities for	5													150

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
empowerment of rural Women													
Location specific drudgery reduction technologies	1												30
Rural Crafts													
Capacity building													
Women and child care													
Others, if any	1												30
<b>TOTAL</b>	<b>13</b>												<b>390</b>
<b>VI. Agriculture Engineering</b>													
Installation and maintenance of micro irrigation systems	2												60
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements	6												180
Small scale processing and value addition													
Post Harvest Technology	2												60
Others, if any	2												60
<b>TOTAL</b>	<b>12</b>												<b>360</b>
<b>VII. Plant Protection</b>													
Integrated Pest Management	6												180
Integrated Disease Management	6												180
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
<b>TOTAL</b>	<b>12</b>												<b>360</b>
<b>VIII. Fisheries</b>													
Integrated fish farming	2												60
Carp breeding and hatchery management	1												30
Carp fry and fingerling rearing													
Composite fish culture & fish disease	3												90
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn	1												30
Breeding and culture of ornamental	1												30

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
fishes														
Portable plastic carp hatchery														
Pen culture of fish and prawn														
Shrimp farming														
Edible oyster farming														
Pearl culture														
Fish processing and value addition														
Others, if any	5													150
<b>TOTAL</b>	<b>13</b>													<b>390</b>
<b>IX. Production of Inputs at site</b>														
Seed Production														
Planting material production														
Bio-agents production														
Bio-pesticides production														
Bio-fertilizer production														
Vermi-compost production														
Organic manures production														
Production of fry and fingerlings														
Production of Bee-colonies and wax sheets														
Small tools and implements														
Production of livestock feed and fodder														
Production of Fish feed														
Others, if any														
<b>TOTAL</b>														
<b>X. Capacity Building and Group Dynamics</b>														
Leadership development														
Group dynamics														
Formation and Management of SHGs														
Mobilization of social capital														
Entrepreneurial development of farmers/youths														
WTO and IPR issues														
Others, if any														
<b>TOTAL</b>														
<b>XI Agro-forestry</b>														
Production technologies														
Nursery management														
Integrated Farming Systems														
<b>TOTAL</b>														

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
<b>XII. Others (Pl. Specify)</b>													
<b>TOTAL</b>	<b>72</b>												<b>2160</b>

### Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	1												10
Bee-keeping	1												20
Integrated farming													
Seed production													
Production of organic inputs	4												80
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops	1												20
Commercial fruit production													
Repair and maintenance of farm machinery and implements	1												20
Custom hiring of agricultural implements	1												20
Nursery Management of Horticulture crops	1												20
Training and pruning of orchards													
Value addition	1												20
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													



Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Ornamental fisheries	1												20
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish seed production	2												40
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (ICT application in agriculture)													
<b>TOTAL</b>	<b>14</b>												<b>270</b>

### Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated weed Management	1												20
Integrated Pest Management	1												20
Integrated disease	1												20

Management													
Integrated Nutrient management													
Soil Health Management	1												20
Rejuvenation of old orchards													
Physical deformity in vegetables	1												20
Value addition													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Micro irrigation	1												20
Safe use of farm machineries	1												20
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care	1												20
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs	1												20

Crop intensification													
Bifloc fish farming	1												20
Brackish water aquaculture	1												20
<b>TOTAL</b>	<b>11</b>												<b>220</b>

#### 4. Frontline demonstration to be conducted\*

##### FLD1: Demonstration on weed management in rice

**Crop & code:** Rice (23FAG03 (K))

**Thrust Area:** Weed Mangement

**Thematic Area:** Weed Mangement

**Season:** *Kharif*, 2023

**Farming Situation:** Rainfed Low & medium

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	Rice	2 ha	Application of Cyhalofop butyl + Penoxulam @ 135g ai/ha at 20 DAT	Weed counts/m <sup>2</sup> , yield, economics																			10

##### Extension activities under FLD on Rice

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 on weed management in Rice	1	Farmer /FW	1	Off																		30

##### FLD2: Demonstration on weed management in maize

**Crop:** Maize (23FAG11(R))

**Thrust Area:** Weed Management

**Thematic Area:** Weed management

**Season:** *Rabi* 2023

**Farming Situation:** Rainfed up land

	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	
2	Maize	2 ha	Post emergence application of Tembotrione 100g/ha + Atrazine 500g/ha at 20 DAS+ one hand weeding at 40DAS	Weed counts/m <sup>2</sup> , yield, economics													10

**Extension activities under FLD on Maize**

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	
Field day	Field day weed management in Maize	1	Farmer/FW	1	Off									30

**FLD3: Demonstration on weed management in groundnut**

**Crop:** Groundnut (23FAG16(R))

**Thrust Area:** Weed Management

**Thematic Area:** Weed Management

**Season:** Rabi-2023

**Farming Situation:** Rainfed up & Medium land

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			
3	Groundnut	2.0 ha	Pre-emergence application of pendimethalin 30%+imazethyper 2% @ 1.0 kg/ha ready mix fb post emergence application of quizalfop-p-ethyl @50g/ha at 20 DAS	Weed counts/m <sup>2</sup> , pod yield, Economics															10

#### Extension and Training activities under FLD on Tomato

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants						Total							
						SC		ST		Other			Total						
						M	F	M	F	M	F			M	F	T			
Field day	Field day on Groundnut	1	Farmer/FW	1	Off														30

#### FLD4: Demonstration on groundnut HYV “Kalinga groundnut-101”

**Crop:** Groundnut(23FAG19(R))

**Thrust Area:** Varietal Substitution

**Thematic Area:** Varietal Substitution

**Season:** Rabi 2023

**Farming Situation:** Rainfed Medium & upland

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

	Enterprises	(ha)/Unit (No.)	demonstration	relation to technology demonstrated	Inputs			M	F	M	F	M	F	M	F	T
4	Groundnut	1.0	Cultivation of groundnut HYV “Kalinga ground nut-101”	No.of pods/plant, pod yield,economics												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 on Groundnut hybrid “Kalinga ground nut-101”	1	F/FW	1	Off											50

#### FLD5: Demonstration on application of PGR in chilli

Crop: Chilli

Thrust Area: vegetable production

Thematic Area: ICM

Season: Kharif, 2023

Farming Situation: Irrigated upland

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	Chilli	1 ha	Spray of Triacantanol @ 1.25ml/liter at 40, 60 and 80 <sup>th</sup> days of planting.	No. of fruits /plant, Yield of Fruits/plant Yield (q/ha), B:C ratio													10

**Extension and Training activities under FLD on Chilli**

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 on chilli	1	Farmer /FW	1	Off									50
Farmer's training	Agro-technique for chilli cultivation	1	Farmer /FW	1	Off									25

**FLD6: Demonstration on weed management in okra**

**Crop:** Okra

**Thrust Area:** Vegetable cultivation

**Thematic Area:** Weed management

**Season:** Rabi, 2023

**Farming Situation:** Irrigated up land

	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		
2	Okra	1 ha	Pendimethalin @750 g a.i /ha.as pre- emergence followed by one hand weeding	Weed count Weed control index Yield (q/ha), B:C ratio														10

**Extension and Training activities under FLD on Okra**

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 on okra	1	Farmer/FW	1	Off									50



Farmer's training	Argo-technique for okra cultivation	1	Farmer/FW	1	Off													25
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**FLD7: Demonstration on application of PGR in tomato**

**Crop: Tomato**

**Thrust Area:** vegetable production

**Thematic Area:** ICM

**Season:** Rabi-2023

**Farming Situation:** Irrigated up land

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			
3	Tomato	1.0 ha	Spray of PGRs comprising of NAA@15ppm + Salicylic Acid	No of fruit/plant  Yield of fruit/plant  Yield (q/ha), B:C ratio															10

**Extension and Training activities under FLD on Tomato**

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 on tomato	1	Farmer/FW	1	Off														50
Farmer's training	Off-season Tomato cultivation	1	Farmer/FW	1	Off														25

**FLD8: Demonstration on INM in bitter gourd**

**Crop:** Bitter gourd  
**Thrust Area:** vegetable cultivation  
**Thematic Area:** INM  
**Season:** Rabi 2023  
**Farming Situation:** Irrigated upland

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			
4	Bitter gourd	1.0	STBF + vermicompost (2.5 ton/ha)+Azotobactor:Azospirillum:PSB@1:1:1 @ 4 kg/ha applied 3 time ( basal, 30 days & 45 days)	No. of fruits /plant, fruit weight  Yield, B:C Ratio															10

**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								T					
						SC		ST		Other		Total							
						M	F	M	F	M	F	M	F						
Field day	Field day on bitter gourd	1	F/FW	1	Off														50
Farmer's training	Package of practices for bitter gourd cultivation	1	F/FW	1	Off														25

**FLD9: Demonstration on integrated management of spiraling whitefly in coconut**

**Crop:** Coconut  
**Thrust Area:** To reduce the disease incidence  
**Thematic Area:** IPM  
**Season:** Kharif, 2023

**Farming Situation:** Rainfed medium land

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	Coconut	10 1 ha	Wrapping of yellow sticky polythene around the trunk at 1.5mtr above the ground level + spraying of 1% starch solution + Alternate spraying of Neem oil 300ppm @ 5ml/ltr of water and Spiromesifen 240 SC @ 1ml/ltr of water at 15 days interval	Disease incidence (%)														

**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	integrated management of spiraling whitefly in coconut	1	F&FW	01	Off													50

**FLD10: Demonstration of Integrated Management of vine rot in betel vine**

**Crop:** Betel vine

**Thrust Area:** To reduce yield loss due to vine rot

**Thematic Area:** IDM

**Season:** Rabi

**Farming Situation:** Low land 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	Betel vine	0.4ha  (10)	FP - Use of Contaf plus/ Propiconazole  RP - Soil drenching with Bordeaux mixture @ 1% and spraying Trifloxystrobin 25 WP + Tebuconazole 50 WP) @ 1ml/ltr +Streptocycline @400ppm at the time of disease appearance twice at 15 days interval	Percentage of infestation ,Leaf Yield/ha, No. of galls/plant														

**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants										
						SC		ST		Other		Total		T		
						M	F	M	F	M	F	M	F			
Training	Management of vine rot in betel vine	1	01	off	June											25

### FLD11: Demonstration of Self-Propelled hole digger for Banana plantation

**Crop:** Banana

**Thrust Area:** Popularization of self-propelled digger for annual & perennial crops

**Thematic Area:** Farm mechanization

**Season:** Kharif

**Farming Situation:** Rainfed Upland

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	Banana	1ha	FP - Digging holes by Phawra  RP - Self-propelled Digger having auger size varies from 1' - 3'. Field capacity - 30 - 40 nos/hr	Field capacity - No. of holes/h, Labour requirement - MDs/ha, Cost of operation - Rs/ha													

### Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants											
						SC		ST		Other		Total		T			
						M	F	M	F	M	F	M	F				

Training	Operation & maintenance of Self-Propelled Digger	1	01	off	Off													25
Field day	Self-propelled hole digger for Banana plantation	1	F&FW	01	Off													50

### FLD12: Demonstration of Sprinkler Irrigation in Groundnut

**Crop:** Groundnut

**Thrust Area:** Enhancement of water use efficiency

**Thematic Area:** Micro Irrigation

**Season:** Rabi

**Farming Situation:** Irrigated lowland

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	Groundnut	1.0ha	FP - Surface flow irrigation  RP - In every 6.0m distance sprinkler head with riser pipe are installed to apply the water creating water front advance between (40-80) cm, Water use efficiency will be increased by 30-40%	Irrigation water used (mm), Water use efficiency (Kg/ha-cm)															

### 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	Crop protection from Frost damage using different types of Sprinklers	1	F&FW	1	Off									25
Field day	Demonstration of Sprinkler Irrigation in Groundnut	1	F&FW	1	Off									50

### FLD13: Demonstration of drip irrigation with mulching in Watermelon

**Crop:** Watermelon

**Thrust Area:** Enhancement of yield & WUE

**Thematic Area:** Micro Irrigation

**Season:** Rabi

**Farming Situation:** Irrigated medium land

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	Watermelon	0.4ha	<b>FP</b> - No mulching with flood irrigation  <b>RP</b> - Use of 50 micron mulch film with inline drip irrigation (emitter discharge 4lph) operating for 1hr -2hr daily and Water use efficiency will be increased by 30-40%, yield enhancement (15-20)%	Irrigation interval, weeding cost, Irrigation water used (mm)														

**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		T
						M	F	M	F	M	F	M	F	
Training	Micro Irrigation system management	1	F&FW	1	Off									25

**FLD14: Demonstration of Tractor drawn Seed cum fertilizer drill for sowing of groundnut**

**Crop:** Groundnut

**Thrust Area:** Use of ICT for accessing information

**Thematic Area:** ICT

**Season:** Rabi

**Farming Situation:** Irrigated lowland

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	Groundnut	2.0ha	<b>FP:</b> Sowing of Groundnut behind the bullock drawn plough  <b>RP</b> -Use of Tractor drawn 9-row Seed cum fertilizer drill for sowing of Groundnut.	Yield, Labour saving, Plant population per sq.m, Net return, B:C Ratio														

**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		T
						M	F	M	F	M	F	M	F	



Training	Operation and maintenance of Seed cum fertilizer drill for sowing groundnut	1	F/FW	1	off														25
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**FLD15: Demonstration on Packaging and storage method for shelf-life enhancement and transportation of paddy straw mushroom**

**Crop:** Mushroom

**Thrust Area:** Value addition by packaging in improved technology

**Thematic Area:** Income generation

**Season:** Round the year

**Farming Situation:** Homestead

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	Mushroom	5	FP-Fresh Mushroom in Polythene bags  RP-Packaging and storage method for shelf-life enhancement and transportation of paddy straw mushroom	Self-life (Days), sensory evaluation	Paddy straw mushroom															0	5	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	Field Day on Packaging and storage method for	1	F&FW	01	Off																		50

	shelf life enhancement and transportation of paddy straw mushroom														
Training	Packaging and storage method for shelf life enhancement and transportation of paddy straw mushroom	1	F&FW	01	Off										25

**FLD16: Demonstration on Milky mushroom cultivation**

**Crop:** MilkyMushroom

**Thrust Area:** To emphasize on entrepreneurship development

**Thematic Area:** Income generation

**Season:** Round the year

**Farming Situation:** Homestead

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	Milky Mushroom	10 200 Beds	FP:Paddy Straw mushroom cultivation  RP:Milky mushroom cultivation with casing material Vermicompost on the top of the bed	Pin head appearance after casing, days to maturity, shelf life	Spawn,  Polythene											0	10	10

**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		T
						M	F	M	F	M	F	M	F	
Field Day	Field day on Cultivation of milky mushroom	1	F&FW	01	Off									50
Training	Cultivation of milky mushroom	1	F&FW	01	Off									25

**FLD17: Demonstration of Tulsi Var.CIM-Ayu for income generation**

**Crop:** Tulsi

**Thrust Area:** Varietal substitution for better yield

**Thematic Area:** Income generation

**Season:** Round the year

**Farming Situation:** Irrigated medium land

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	Tulsi	10 0.04	RP: Cultivation of Tulsi Var.CIM-Ayu  FP:Cultivation of Local Var. Tulsi	Herbage Yield -kg/plant															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 on Tulsi cultivation	1	F&FW	01	Off									50
Training	Cultivation of Tulsi in backyard	1	F&FW	01	Off									25

**FLD18: Demonstration of Quail farming for income generation**

**Crop:** Quail

**Thrust Area:** To emphasize on entrepreneurship development

**Thematic Area:** Income generation

**Season:** Round the year

**Farming Situation:** Semi intensive poultry farming. Backyard, Free ranging

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	Poultry	10  (1000 chicks)	FP-Rearing of Poultry birds in backyard condition  RP-Rearing of Quail under intensive system	Wt/bird in 6 weeks, chicks' mortality	Quail, feed											0	10	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 on Quail poultry management	1	F&FW	01	Off													50

Training	Semi-intensive backyard Quail management	1	F&FW	01	Off														25
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**FLD19: Demonstration of mixed carp stunted fingerlings production in biofloc culture system**

**Crop:** Fish

**Thrust Area:** To cater the bigger size mixed carp seed demand for composite carp culture

**Thematic Area:** Biofloc culture

**Season:** Round the year

**Farming Situation:** 10 Ton tanks cement concrete/ plastic tarpaulin outdoor installed with agro shadenet house

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	Fish seed	05 units	<p><b>FP-</b> Production of low-cost air-breathing fishes in biofloc</p> <p><b>RP-</b> Stocking of 10,000 nos. of mixed carp advance frys or early fingerlings in a biofloc tank of 10 ton capacity with a production potential of 4,000 nos. (200kg) of bigger size stunted fingerlings within 3 months of culture period</p>	Survival rate (%), Growth rate, disease incidence (%)	Fish advance fry/early fingerling															05

**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants						T		
						SC		ST		Other			Total	
						M	F	M	F	M	F		M	F
Training	Package of practices of biofloc fish farming	1	F&FW	01	Off							25		
Field day	IMC fingerlings raising in BFTs	1	F&FW	01	Off							50		

**FLD20: Demonstration of Genetically Improved (GI) catlain composite carp culture**

**Crop:** Fish

**Thrust Area:** To maximize yield by substituting traditional catla with GI catla

**Thematic Area:** Species diversification

**Season:** Round the year

**Farming Situation:** Small to medium size pond, rainfed/canalfed sandy loam soil

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	Fish (Fishery)	6.0 ha, 20 units	FP-Culture of traditional catla in composite carp culture  RP- Incorporation of GI-catla in composite carp culture with species ratio :- GI-Catla: Rohu: Mrigal::3:4:3 @ 10000 nos/ha.	Length & Weight, FCR, Growth rate, Plankton density, BC ratio	GI catla fingerlings														20

**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants						T		
						SC		ST		Other			Total	
						M	F	M	F	M	F		M	F
Training	Demonstration of Genetically Improved (GI) catlain composite carp culture	1	F&FW	01	Off								25	

**FLD21: Demonstration of strengthening of pond based IFS**

**Crop:** Fish

**Thrust Area:** To maximize productivity or unit area by intensifying different allied agriculture activities over the pond embankment

**Thematic Area:** IFS

**Season:** Round the year

**Farming Situation:** Small to medium size pond, rainfed/canal fed sandy loam soil

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	Fish	4.0ha 10 Units	FP-Practising only pisciculture by stocking of IMC fingerlings  RP-Stocking of yearlings of IMC @ 5000 nos/ha, planting of papaya, banana and drumstick on pond dykes + Poultry rearing	Growth parameters of fish i.e. Growth rate, average body weight (ABW) during harvesting, FCR  fruits/plant  kg/Bed  kg./Bird  BC ratio	Fish fingerlings, Papaya,  Drumstick,  Chicks													10

**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants									
						SC		ST		Other		Total		T	
						M	F	M	F	M	F	M	F		
Training	Fish cum Duck farming	1	F&FW	01	Off										25
Training	Integrated fish farming	1	F&FW	01	Off										25
Field day	Pond based Integrated fish farming	1	F&FW	01	Off										50

**FLD22: Demonstration on use of Ivermectin in controlling Argulosis**

**Crop:** Fish

**Thrust Area:** To maximize yield by managing Argouloosis in fish ponds

**Thematic Area:** Disease management

**Season:** Round the year

**Farming Situation:** Small to medium size pond, rainfed/canalfed sandy loam soil

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	Fish	2.0 ha, 5 Units	FP-Use of traditional fish feed and no use of chemicals for disease control  RP-Application of Paracure I. V. (Ivermectin 2 % w/w) @	Disease incidence (%), Mortality (%) , average body weight (ABW) during harvesting, Average DO level, Plankton density,	Ivermectin powder															5



			250 gm/ 1 ton traditional fish feed fed @ 5-3% of body weight daily for 4 - 5 days to control Argulosis	Alkalinity													
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**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								T
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	
Training	Prophylaxis and fish disease management in fish ponds	1	F&FW	01	Off									25
Field day	use of Ivermectin in controlling Argulosis	1	F&FW	01	Off									50

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

Name of the Crop / Enterprise	Variety / Type	Period From..... ... to .....	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	Pooja/ Kalachampa (Qtls.)	June-Jan	12 ha	Seed	420			
Papaya	Ranchi dwarf/Honeydew/L unar	July-Sept	41.8 Sq.m t.	Seedling	5000 nos.			
Cauliflower	Barkha	Sept-Nov		Seedling	8000 nos.			
Cabbage	Saint	Sept-Nov		Seedling	8000 nos			
Brinjal	Akshita/JK 8021	Aug-Feb		Seedling	20000 nos			
Marigold	Seracole	Sept-Feb		Seedling	22000 nos			
Broccoli	Aiswara	Sept-Feb		Seedling	1000 nos			
Red cabbage	NS-1456/ NS-1460	Sept-Feb		Seedling	500 nos			
Capsicum	Indra	Sept-Feb		Seedling	1000 nos			
Chilli	Arka Harita	Sept-Feb		Seedling	10000 nos			
Cherry tomato		Oct - Nov		Seedling	500 nos			
Hot chilli		Oct - Nov		Seedling	1000 nos			
Tomato	Arkarakshak/ Laxmi	Sept-Feb		Seedling	22,000 nos			
Drumstick	ODC-3/PKM-1	Sept-Feb		Seedling	1000 nos.			
Fish fingerling	IMC	April-Dec. 2022		Stunted Fingerlings & yearlings	300000 nos.			
Ornamental fish	Japanese Koi carps & Gold fish	April-Dec. 2022	3 tanks	Fry & Fingerlings of ornamental fish	5,000 nos			
Poultry Unit	Duck (var- Khaki Campbell) Japanese Quail	Jan- Dec	12 nos 50 nos.	Eggs 21 days chicks	500 nos. 1000 nos.			
Vermicompost (qtl)	<i>E. foetida</i>	April-March	Tank -6ft	Compost	10 q			

			Tank -4ft					
Vermiculture (kg)	<i>E. foetida</i>	April-March		Culture	15 kg			
Paddy straw mushroom (kg)	<i>V. volvacea</i>	June-Oct	100 Beds	Mushroom	1.5 q			
Oyster mushroom (kg)	<i>P. sajarcaju/ Hypsizygous ulimarus</i>	Nov-Feb	100 Bags	Mushroom	1.5 q			
Honey(Kg)/ Colony (Nos.)	<i>Apis cerena indica</i>	April-March	10 boxes	Honey Bee colony	10 kg 5 no.			
Pineapple	Queen	April-March	-	Pineapple Suckers	2000 nos.			

### b) Village Seed Production Programme

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

### 6. Extension Activities

Sl. No.	Activities/ Sub-activities	No. of activities proposed	Farmers				Extension Officials			Total		Total
			M	F	T	SC/ST (% of total)	Male	Female	Total	Male	Female	
1	Field Day	22										
2	KisanMela	2										
3	KisanGhoshi	1										
4	Exhibition	5										
5	Film Show	22										
6	Method Demonstrations	8										
7	Farmers Seminar	2										
8	Workshop	2										
9	Group meetings	6										
10	Lectures delivered as	16										

	resource persons											
11	Advisory Services	34										
12	Scientific visit to farmers field	120										
13	Farmers visit to KVK	1										
14	Diagnostic visits	56										
15	Exposure visits	5										
16	Ex-trainees Sammelan	1										
17	Soil health Camp	2										
18	Animal Health Camp	2										
19	Agri mobile clinic	1										
20	Soil test campaigns	1										
21	Farm Science Club Conveners meet	1										
22	Self Help Group Conveners meetings	2										
23	Mahila Mandals Conveners meetings	1										
24	Celebration of important days (specify)	7										
25	Sankalp Se Siddhi	1										
26	Swatchta Hi Sewa	5										
27	Mahila Kisan Diwas	1										
28	Any Other (Specify)											
	<b>Total</b>	<b>327</b>										

#### 7. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2023)	Amount proposed to be invested during 2023-24	Expected Return
483813.69	14,00,000	18,00,000

#### 8. Expected fund from other sources and its proposed utilization- NA

Project	Source	Amount to be received (Rs. in lakh)
Insecticide dealer training	Self-financed	304000 (40 nos. of participants)

## 9. On-farm trials to be conducted\*

### OFT-1(Agronomy)

<b>i.</b>	<b>Season</b>	:	<i>Kharif, 2023(Year-I)</i>
<b>ii.</b>	<b>Title of the OFT</b>	:	Assessment of deep water rice varieties
<b>iii.</b>	<b>Thematic Area</b>	:	varietal evaluation
<b>iv.</b>	<b>Problem diagnosed</b>	:	Low yield due to less tolerant of prevailing varieties to water logging
<b>v.</b>	<b>Production system</b>	:	Rice -Pulse
<b>vi.</b>	<b>Micro farming situation</b>	:	Rainfed low land
<b>vii.</b>	<b>Technology for Testing</b>	:	Assessment of deep water rice varieties
<b>viii.</b>	<b>Existing Practice</b>	:	Cultivation of var. Pooja
<b>ix.</b>	<b>Objective(s)</b>	:	To assess suitable submergence tolerance variety
<b>x.</b>	<b>Treatments</b>	:	FP: Pooja TO1: CR Dhan506 TO2: CR Dhan 505 TO3: CR Dhan 508
<b>xi.</b>	<b>Critical Inputs</b>	:	-
<b>xii.</b>	<b>Unit Size</b>	:	0.1ha
<b>xiii.</b>	<b>No of Replications</b>	:	7
<b>xiv.</b>	<b>Unit Cost</b>	:	1000
<b>xv.</b>	<b>Total Cost</b>	:	7000
<b>xvi.</b>	<b>Monitoring Indicator</b>	:	No. of EBT/m <sup>2</sup> , No of filled grains/panicle, test weight, yield & economics
<b>xvii.</b>	<b>Source of Technology (ICAR/AICRP/SAU/ Other, please specify)</b>	:	NRRI,2014

OFT- 2(Agronomy)

<b>i.</b>	<b>Season</b>	:	<i>Rabi 2023</i> (Year-I)
<b>ii.</b>	<b>Title of the OFT</b>	:	Assessment of decomposer for <i>in-situ</i> residue management in rice
<b>iii.</b>	<b>Thematic Area</b>	:	Crop residue management
<b>iv.</b>	<b>Problem diagnosed</b>	:	Residue Burning
<b>v.</b>	<b>Production system</b>	:	Rice Fallow
<b>vi.</b>	<b>Micro farming situation</b>	:	Rainfed up & medium land
<b>vii.</b>	<b>Technology for Testing</b>	:	Residue Burning
<b>viii.</b>	<b>Existing Practice</b>	:	Burning of remaining rice stable
<b>ix.</b>	<b>Objective(s)</b>	:	To assess suitable residue management option
<b>x.</b>	<b>Treatments</b>	:	FP: Burning of remaining rice residue TO1:NRRI decomposer@10 capsules in 100 L of cow dung slurry + 2 % jaggery solution + 0.5% urea solution kept for 7 days and sprayed for 1 ha TO2: PUSA decomposer @ 4 capsules in 25L of water with 2 % jaggery solution and pulse powder for 1 ha
<b>xi.</b>	<b>Critical Inputs</b>	:	Bio fertilizer and fertilizer
<b>xii.</b>	<b>Unit Size</b>	:	0.1ha
<b>xiii.</b>	<b>No of Replications</b>	:	7
<b>xiv.</b>	<b>Unit Cost</b>	:	1500
<b>xv.</b>	<b>Total Cost</b>	:	10500
<b>xvi.</b>	<b>Monitoring Indicator</b>	:	Decomposition period, soil organic carbon before and after, ease of cultivation of next crop
<b>xvii.</b>	<b>Source of Technology (ICAR/AICRP/SAU/ Other, please specify)</b>	:	<i>NRRI, 2021&amp;IARI,2020</i>

OFT- 3 (Agronomy)

<b>i.</b>	<b>Season</b>	:	Rabi, 2023
<b>ii.</b>	<b>Title of the OFT</b>	:	<b>Assessment of finger millet varieties for better yield</b>
<b>iii.</b>	<b>Thematic Area</b>	:	Varietal evaluation
<b>iv.</b>	<b>Problem diagnosed</b>	:	Low yield due to unavailability of suitable varieties
<b>v.</b>	<b>Production system</b>	:	Paddy-fallow
<b>vi.</b>	<b>Micro farming situation</b>	:	Irrigated Medium land/low land
<b>vii.</b>	<b>Technology for Testing</b>	:	
<b>viii.</b>	<b>Existing Practice</b>	:	Fallow area after paddy crop
<b>ix.</b>	<b>Objective(s)</b>	:	
<b>x.</b>	<b>Treatments</b>	:	<p>FP: fallow land</p> <p>TO1: <b>Arjun</b> (OEB 526)-Released in 2011, maturity days: 110-115 days, Avg. yield is 25-26 q/ha, Semi dwarf, light brown grains. Moderately resistant to leaf, neck and finger blast diseases. It can tolerate dry spell of 10-12 days at vegetative stage &amp; 6-8 days at reproductive stage.</p> <p>TO2: <b>Kalua</b>(OEB 532) - Semi dwarf, light brown grains. Resistance to leaf &amp; neck blast. Moderately resistant to finger blast &amp; stem borer. It can tolerate dry spell of 8-10 days at vegetative stage &amp; 5-6 days at reproductive stage. , maturity days: 110-115days , Avg. yield is 20-25 q/ha</p>
<b>xi.</b>	<b>Critical Inputs</b>	:	Millet seeds
<b>xii.</b>	<b>Unit Size</b>	:	1.4ha
<b>xiii.</b>	<b>No of Replications</b>	:	7
<b>xiv.</b>	<b>Unit Cost</b>	:	1000
<b>xv.</b>	<b>Total Cost</b>	:	7000
<b>xvi.</b>	<b>Monitoring Indicator</b>	:	Plant Height, No of tillers/hill, Test Weight Ear hear length(cm), No of grains/panicle, Yield (q/ha), B:C ratio, disease & Pest incidence
<b>xvii.</b>	<b>Source of Technology (ICAR/AICRP/SAU/ Other, please specify)</b>	:	OUAT, BBSR

OFT-4(Horticulture)

<b>i</b>	<b>Season</b>	: Rabi, 2023(Year-I)
<b>ii</b>	<b>Title of the OFT</b>	: Assessment of herbicides for weed management in Tomato
<b>iii</b>	<b>Thematic Area</b>	: Weed management
<b>iv</b>	<b>Problem diagnosed</b>	: Low yield due to heavy weed infestation
<b>v</b>	<b>Production system</b>	: Rice -vegetable
<b>vi</b>	<b>Micro farming situation</b>	: Irrigated up land
<b>vii</b>	<b>Technology for Testing</b>	: Use of Herbicide for weed management
<b>viii</b>	<b>Existing Practice</b>	: Manual weeding
<b>ix</b>	<b>Objective(s)</b>	: <ul style="list-style-type: none"> <li>• To evaluate two different herbicide for weed control</li> <li>• To evaluate effect of herbicide on yield</li> <li>• To assess decrease in cost of cultivation</li> </ul>
<b>x</b>	<b>Treatments</b>	: FP: Manual weeding TO: Pre emergence application of Pendimethalin (30% EC) 1kg/ha a.i followed by one hand weeding on 30 Days after Transplanting  TO2: Pre emergence application of Metribuzin (70% WP) 750 g/ha a.i followed by one hand weeding on 30 Days after Transplanting
<b>xi</b>	<b>Critical Inputs</b>	: -
<b>xii</b>	<b>Unit Size</b>	: 0.1ha
<b>xiii</b>	<b>No of Replications</b>	: 7
<b>xiv</b>	<b>Unit Cost</b>	: 2500
<b>xv</b>	<b>Total Cost</b>	: 17500
<b>xvi</b>	<b>Monitoring Indicator</b>	: No. of fruits /plant, % of disease infection
<b>xvii</b>	<b>Source of Technology(ICAR/AICRP/SAU/ Other, please specify)</b>	: ICAR-Directorate of Weed Research



**OFT- 5 (Horticulture)**

<b>i.</b>	<b>Season</b>	:	<i>Kharif 2023</i>
<b>ii.</b>	<b>Title of the OFT</b>	:	Assessment of INM practices in Banana
<b>iii.</b>	<b>Thematic Area</b>	:	INM
<b>iv.</b>	<b>Problem diagnosed</b>	:	Low yield due to improper nutrient management
<b>v.</b>	<b>Production system</b>	:	Fruit cultivation
<b>vi.</b>	<b>Micro farming situation</b>	:	Irrigated upland
<b>vii.</b>	<b>Technology for Testing</b>	:	INM practices in Banana
<b>viii.</b>	<b>Existing Practice</b>	:	Application of fertilizer @ 200:100:100 g NPK/plant
<b>ix.</b>	<b>Objective(s)</b>	:	<ul style="list-style-type: none"> <li>• To assess INM practices for higher yield</li> <li>• To assess INM practices suitable for saline soil condition</li> </ul>
<b>x.</b>	<b>Treatments</b>	:	FP: Application of fertilizer @ 200:100:100 g NPK/plant TO1: Application of 75% RDF (300:100:300 g NPK/plant) + 125 gm each of Azotobactor, Azospirillum & PSB (incubated in FYM) per plant TO2: Application of gypsum 2 kg/ plant + FYM 15 kg/ plant + recommended of N, P and 120% K in saline sodic soil increased the yield by 51 % over control.
<b>xi.</b>	<b>Critical Inputs</b>	:	Bio fertilizer and fertilizer
<b>xii.</b>	<b>Unit Size</b>	:	0.1ha
<b>xiii.</b>	<b>No of Replications</b>	:	7
<b>xiv.</b>	<b>Unit Cost</b>	:	2500
<b>xv.</b>	<b>Total Cost</b>	:	147500
<b>xvi.</b>	<b>Monitoring Indicator</b>	:	No. of fingers /bunch, bunch weight
<b>xvii.</b>	<b>Source of Technology (ICAR/AICRP/SAU/ Other, please specify)</b>	:	Dept. of Fruit science OUAT, 2014-15 and NRC Banana, 2013-14

OFT-6(Plant Protection)

<b>i.</b>	<b>Season</b>	:	Kharif, 2023
<b>ii.</b>	<b>Title of the OFT</b>	:	Assessment of panama wilt in Banana
<b>iii.</b>	<b>Thematic Area</b>	:	IDM
<b>iv.</b>	<b>Problem diagnosed</b>	:	Low yield due to high infestation of Panama wilt in Banana
<b>v.</b>	<b>Production system</b>	:	Banana
<b>vi.</b>	<b>Micro farming situation</b>	:	Irrigated Medium land
<b>vii.</b>	<b>Technology for Testing</b>	:	
<b>viii.</b>	<b>Existing Practice</b>	:	Spraying of Carbendazim and Dimethoate
<b>ix.</b>	<b>Objective(s)</b>	:	To control high infestation of Panama wilt in Banana
<b>x.</b>	<b>Treatments</b>	:	FP: Spraying of Carbendazim and Dimethoate TO1: Planting of disease free suckers, +apply lime @ 40gm/pit + 250gm Neem cake/pit + 500gm vermi compost + soil drenching of 0.2 % carbendazim 50 WP solution at 2nd, 4th and 6th months after planting + stem injection of carbendazim 50 WP@ 2-3ml/plant (20gm/lit solution) at 3rd, 5th and 7th month after planting TO2: Planting of disease free suckers, + apply lime @ 40gm/pit + 250gm Neem cake/pit + 500gm vermi compost + soil drenching of 0.1 % ( Trifloxystrobin 25 WP + Tebuconazole 50 WP) solution at 2nd, 4th and 6th months after planting + stem injection of ( Trifloxystrobin 25 WP + Tebuconazole 50 WP) 2-3ml/plant (1gm/lit solution) at 3rd, 5th and 7th month after planting
<b>xi.</b>	<b>Critical Inputs</b>	:	TO1 -disease free suckers, Neem cake, vermi compost + soil drenching, stem injection of Carbendazim TO2- disease free suckers, lime, Neem cake, vermi compost, Trifloxystrobin 25 WP, Tebuconazole, stem injection of (Trifloxystrobin 25 WP + Tebuconazole 50 WP)
<b>xii.</b>	<b>Unit Size</b>	:	0.5ha
<b>xiii.</b>	<b>No of Replications</b>	:	7
<b>xiv.</b>	<b>Unit Cost</b>	:	1200
<b>xv.</b>	<b>Total Cost</b>	:	8400
<b>xvi.</b>	<b>Monitoring Indicator</b>	:	Cost of intervention. Additional income over additional investment Yield (q /ha), B:C ratio
<b>xvii.</b>	<b>Source of Technology (ICAR/AICRP/SAU/ Other, please specify)</b>	:	AICRP on fruit, OUAT, 2019, NRCB, Tamilnadu, 2018

OFT-7 (Plant Protection)

<b>i.</b>	<b>Season</b>	: Kharif, 2023 / II yr.
<b>ii.</b>	<b>Title of the OFT</b>	: Assessment of management of melon fruit fly in Bitter gourd
<b>iii.</b>	<b>Thematic Area</b>	: IPM
<b>iv.</b>	<b>Problem diagnosed</b>	: Low yield of bitter gourd due to high infestation of fruit flies, area affected – 2000ha, extent of fruit damage – 35 – 40%
<b>v.</b>	<b>Production system</b>	: Vegetable - vegetable
<b>vi.</b>	<b>Micro farming situation</b>	: Irrigated Medium land
<b>vii.</b>	<b>Technology for Testing</b>	: Integrated management of melon fruit fly in Bitter gourd
<b>viii.</b>	<b>Existing Practice</b>	: Spraying of Chloropyriphos / Cypermethrin pesticides
<b>ix.</b>	<b>Objective(s)</b>	: To manage the melon fruit flies
<b>x.</b>	<b>Treatments</b>	: FP: Spraying of Chloropyriphos / Cypermethrin pesticides TO1: Mixture of cucumber fruit pulp 100gms+100ml cow urine+ 100gr jaggery +0.5lts of water and kept for overnight and diluted in 15L water (Food Bait) to be placed 5 times @ weekly interval from initiation of fruiting, installation of Pheromone traps @25/ha with Cue - lure thrice DAS and change of lure at 25 days interval followed by spraying of Spinosad 45 SC@200ml/ha thrice at 15days interval TO2: FB+ PT+ Foliar spray of Neem oil@1500ml/ha thrice at 15 days interval from initiation of flowering TO3: FB + PT + Foliar spray of Fipronil 5EC@1000ml/ha
<b>xi.</b>	<b>Critical Inputs</b>	: TO1: Pheromone traps , Spinosad TO2: Neem oil TO3: Fipronil
<b>xii.</b>	<b>Unit Size</b>	: 0.2ha
<b>xiii.</b>	<b>No of Replications</b>	: 5
<b>xiv.</b>	<b>Unit Cost</b>	: 1000
<b>xv.</b>	<b>Total Cost</b>	: 1500
<b>xvi.</b>	<b>Monitoring Indicator</b>	: Percentage of fruit infestation, Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio
<b>xvii.</b>	<b>Source of Technology (ICAR/AICRP/SAU/ Other, please specify)</b>	: RRTTS coastal zone, OUAT, Bhubaneswar, 2022

OFT- 8 (Agril. Engineering)

<b>i.</b>	<b>Season</b>	: Rabi, 2023-24/Year-II
<b>ii.</b>	<b>Title of the OFT</b>	: Assessment of different Coconut dehusker
<b>iii.</b>	<b>Thematic Area</b>	: Farm Mechanization
<b>iv.</b>	<b>Problem diagnosed</b>	: High labour, cost and time involved in dehusking the coconut
<b>v.</b>	<b>Production system</b>	: Coconut orchard, Plantation in Pond dyke
<b>vi.</b>	<b>Micro farming situation</b>	: Irrigated Medium land
<b>vii.</b>	<b>Technology for Testing</b>	: Power operated Coconut Dehusker
<b>viii.</b>	<b>Existing Practice</b>	: Manual dehusking by billhook (Katari)
<b>ix.</b>	<b>Objective(s)</b>	: To enhance the coconut dehusking by involving less labour and time.
<b>x.</b>	<b>Treatments</b>	: FP: Manual dehusking by billhook (Katari) TO1: Manual Coconut Dehusker TO2: Power operated Coconut Dehusker
<b>xi.</b>	<b>Critical Inputs</b>	: OFT will be conducted in association with AICRP on FIM, CAET, OUAT (Transportation cost ) / hiring
<b>xii.</b>	<b>Unit Size</b>	: 10
<b>xiii.</b>	<b>No of Replications</b>	: 10
<b>xiv.</b>	<b>Unit Cost</b>	: 2000
<b>xv.</b>	<b>Total Cost</b>	: 20000
<b>xvi.</b>	<b>Monitoring Indicator</b>	: Dehusking capacity(No of nuts/hr), Labour requirement – (MDs/100nuts) , Cost of operation (Rs/nuts), Dehusking capacity (%)
<b>xvii.</b>	<b>Source of Technology (ICAR/AICRP/SAU/ Other, please specify)</b>	: TO2 - Validated by AICRP on FIM, CAET, OUAT, 2022 TO1 - Validated by AICRP on FIM, CAET, OUAT, 2022

**OFT-9 (Agril. Engineering)**

<b>i.</b>	<b>Season</b>	:	Kharif, 2023/Year-I
<b>ii.</b>	<b>Title of the OFT</b>	:	Assessment of different harvesting and threshing methods on quality of paddy seed
<b>iii.</b>	<b>Thematic Area</b>	:	Farm Mechanization
<b>iv.</b>	<b>Problem diagnosed</b>	:	Lack of sufficient information on post harvest losses occurred in both manual and mechanical procedure in quality seed production. Quality of seed deteriorates due to improper harvesting and threshing methods
<b>v.</b>	<b>Production system</b>	:	Paddy, Fallow - Paddy
<b>vi.</b>	<b>Micro farming situation</b>	:	Rainfed Low land
<b>vii.</b>	<b>Technology for Testing</b>	:	Combine harvesting with pneumatic wheel, manual harvesting with axial flow thresher
<b>viii.</b>	<b>Existing Practice</b>	:	Manual harvesting and mechanical threshing (Power thresher cum winnower)
<b>ix.</b>	<b>Objective(s)</b>	:	To find out the actual post harvest losses and seed germination (%)
<b>x.</b>	<b>Treatments</b>	:	FP: Manual harvesting and mechanical threshing (Power thresher cum winnower) TO1: Manual harvesting and mechanical threshing (Axial flow thresher) TO2: Combine harvesting with Pneumatic wheel
<b>xi.</b>	<b>Critical Inputs</b>	:	Custom hiring of Implements
<b>xii.</b>	<b>Unit Size</b>	:	0.1
<b>xiii.</b>	<b>No of Replications</b>	:	7
<b>xiv.</b>	<b>Unit Cost</b>	:	3000
<b>xv.</b>	<b>Total Cost</b>	:	21000
<b>xvi.</b>	<b>Monitoring Indicator</b>	:	Threshing efficiency (%), visible broken seed (%), visible dehusked seed (%), germination (%)
<b>xvii.</b>	<b>Source of Technology (ICAR/AICRP/SAU/ Other, please specify)</b>	:	TNAU, Kumulpur, 2017

**OFT-10 (Fishery)**

<b>i.</b>	<b>Season</b>	:	Rabi, 2023-24 /III Yr.
<b>ii.</b>	<b>Title of the OFT</b>	:	Refinement of growth promoters for maximizing Amur carp / common carp fry yield in nursery tanks during winter
<b>iii.</b>	<b>Thematic Area</b>	:	Production and management
<b>iv.</b>	<b>Problem diagnosed</b>	:	Less growth rate and poor survival & yield of fries
<b>v.</b>	<b>Production system</b>	:	Pond based farming system
<b>vi.</b>	<b>Micro farming situation</b>	:	Alluvial, small to medium tanks, irrigated, Chinese carps
<b>vii.</b>	<b>Technology for Testing</b>	:	Feeding of spawns with growth promoters like Manganous sulphate and Cobaltous chloride each at a dose of 0.01mg per spawn per day (Incorporated with powdered feed) and commercially available yeast powder at a dose of 0.5% of total powdered feed
<b>viii.</b>	<b>Existing Practice</b>	:	Feeding with only powdered feed (Rice bran: GNOC ::1:1)
<b>ix.</b>	<b>Objective(s)</b>	:	To assess the efficacy of different growth promoters, its effect on maximizing survival, fry yield and economics
<b>x.</b>	<b>Treatments</b>	:	FP: Only powdered feed (Rice bran: GNOC ::1:1) TO1: Use of Manganous sulphate and Cobaltous chloride each at a dose of 0.01mg per spawn per day (Incorporated with powdered feed) TO2: Use of commercially available yeast powder ( <i>Saccharomyces cerevisiae</i> ) at a dose of 0.5% of total powdered feed to be served daily TO3: T O <sub>1</sub> +T O <sub>2</sub> (Combination of both essential trace minerals & Yeast as feed probiotics)
<b>xi.</b>	<b>Critical Inputs</b>	:	Manganous sulphate, Cobaltous chloride and commercially available yeast powder ( <i>Saccharomyces cerevisiae</i> )
<b>xii.</b>	<b>Unit Size</b>	:	0.4ha
<b>xiii.</b>	<b>No of Replications</b>	:	3
<b>xiv.</b>	<b>Unit Cost</b>	:	2500
<b>xv.</b>	<b>Total Cost</b>	:	22500
<b>xvi.</b>	<b>Monitoring Indicator</b>	:	Average growth rate, Survival rate, Yield, B:C ratio
<b>xvii.</b>	<b>Source of Technology (ICAR/AICRP/SAU/ Other, please specify)</b>	:	TO-1- ICAR-CIFA – 2013 TO-2 – TNAU-2019

OFT-11 (Fishery)

<b>i.</b>	<b>Season</b>	:	Round the Year, 2023-24/III yr
<b>ii.</b>	<b>Title of the OFT</b>	:	Refinement of efficacy of different probiotics on growth performance of carps
<b>iii.</b>	<b>Thematic Area</b>	:	Disease management
<b>iv.</b>	<b>Problem diagnosed</b>	:	Low fish yield and more susceptible to diseases due to non use of probiotics
<b>v.</b>	<b>Production system</b>	:	Pond based
<b>vi.</b>	<b>Micro farming situation</b>	:	Sandy-loam, small to medium tanks, Rainfed / irrigated, IMCs / Chinese carps
<b>vii.</b>	<b>Technology for Testing</b>	:	Efficacy of soil and water probiotics on growth of carps
<b>viii.</b>	<b>Existing Practice</b>	:	Feeding with artificial supplementary feed and no use of probiotics
<b>ix.</b>	<b>Objective(s)</b>	:	To assess the efficacy of different probiotics on growth performance of carps
<b>x.</b>	<b>Treatments</b>	:	FP: Feeding with artificial supplementary feed (GNOC and rice bran at 1:1) and no use of probiotics TO1: Application of Soil probiotic (Rid all) @ 1 kg/Ac-m water area TO2: Application of Water Probiotic (Water spell) @ 5 Litre/ Ac-m water area TO3: T O <sub>1</sub> +T O <sub>2</sub> (Combination of both Soil & Water probiotic)
<b>xi.</b>	<b>Critical Inputs</b>	:	Soil probiotics and water probiotics
<b>xii.</b>	<b>Unit Size</b>	:	0.4ha
<b>xiii.</b>	<b>No of Replications</b>	:	14
<b>xiv.</b>	<b>Unit Cost</b>	:	1000
<b>xv.</b>	<b>Total Cost</b>	:	10000
<b>xvi.</b>	<b>Monitoring Indicator</b>	:	Growth rate, % of disease incidence, survival rate, pH, alkalinity
<b>xvii.</b>	<b>Source of Technology (ICAR/AICRP/SAU/ Other, please specify)</b>	:	College of Fisheries, OUAT

OFT-12 (Home Science)

<b>i.</b>	<b>Season</b>	: Kharif 2023 /II Yr.
<b>ii.</b>	<b>Title of the OFT</b>	: Refinement of the improved techniques for cultivation of Paddy straw mushroom ( <i>Volvariella volvacea</i> ) using crumpled straw
<b>iii.</b>	<b>Thematic Area</b>	: Mushroom Production
<b>iv.</b>	<b>Problem diagnosed</b>	: Less income due to less yield
<b>v.</b>	<b>Production system</b>	: IFS system
<b>vi.</b>	<b>Micro farming situation</b>	: Outdoor System
<b>vii.</b>	<b>Technology for Testing</b>	: Use of different age of mushroom spawn
<b>viii.</b>	<b>Existing Practice</b>	: Use of unknown days age spawn
<b>ix.</b>	<b>Objective(s)</b>	: Identification of quality of spawn for the cultivation of <i>V. volvacea</i> for enhanced yields
<b>x.</b>	<b>Treatments</b>	: FP: Rectangular compact method Size-45x60x30 Mushroom production by using crumpled paddy straw -5kg with normal practice (soaking in water 5hrs with 2% calcium carbonate), unknown age of spawn, 3% of dry substrate weight), pulse powder 3% dry substrate weight, BE-8-10% TO1: Square compact bed size (45 × 45x 45 cm) Mushroom production by using crumpled paddy straw 5kg, soaking of straw in water for 5hrs in 2% CaCo <sub>3</sub> , 14-20 days age spawn at 3% of dry substrate weight and pulse powder (at 3% dry substrate weight) TO2: Circular compact bed size -(45 cm diameter, 45 cm height) Mushroom production by using crumpled paddy straw 5kg, soaking of straw in water for 5hrs in 2% CaCo <sub>3</sub> , 14-20 days age spawn at 3% of dry substrate weight and pulse powder (at 3% dry substrate weight)
<b>xi.</b>	<b>Critical Inputs</b>	: Mushroom Spawn, Red gram Powder, CaCo <sub>3</sub>
<b>xii.</b>	<b>Unit Size</b>	: 40 Beds/unit
<b>xiii.</b>	<b>No of Replications</b>	: 7
<b>xiv.</b>	<b>Unit Cost</b>	: 800
<b>xv.</b>	<b>Total Cost</b>	: 5600
<b>xvi.</b>	<b>Monitoring Indicator</b>	: Average buttons/bed (number), Average weight/button (g), B.E. (%), Yield/bed (g)
<b>xvii.</b>	<b>Source of Technology (ICAR/AICRP/SAU/ Other, please specify)</b>	: Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore,2012



OFT-13 (Home Science)

<b>i.</b>	<b>Season</b>	:	Round the Year, 2023-24/I yr.
<b>ii.</b>	<b>Title of the OFT</b>	:	Assessment of Arka Mushroom Nutri-Cereal Cookies for enhancing income of SHGs/FPOs.
<b>iii.</b>	<b>Thematic Area</b>	:	Income generation
<b>iv.</b>	<b>Problem diagnosed</b>	:	Limited value addition and distress selling.
<b>v.</b>	<b>Production system</b>	:	Vegetable- Vegetable
<b>vi.</b>	<b>Micro farming situation</b>	:	Homestead
<b>vii.</b>	<b>Technology for Testing</b>	:	Preparation of Arka Mushroom Nutri-Cereal Cookies
<b>viii.</b>	<b>Existing Practice</b>	:	Preparation of Cookies
<b>ix.</b>	<b>Objective(s)</b>	:	To enhance the income generation
<b>x.</b>	<b>Treatments</b>	:	TO1: Preparation of Arka Mushroom Nutri-Cereal Cookies- Oyster mushroom ( <i>Hypsizygos ulmarius</i> ) powder in combination with sorghum/jowar Powder TO2:Preparation of Arka Mushroom Nutri-Cereal Cookies- Oyster mushroom ( <i>Hypsizygos ulmarius</i> ) powder in combination with finger millet/ragi
<b>xi.</b>	<b>Critical Inputs</b>	:	Mushroom Powder, Sorghum & Ragi Powder 7 other inputs for cookies preparation
<b>xii.</b>	<b>Unit Size</b>	:	-
<b>xiii.</b>	<b>No of Replications</b>	:	10
<b>xiv.</b>	<b>Unit Cost</b>	:	600
<b>xv.</b>	<b>Total Cost</b>	:	6000
<b>xvi.</b>	<b>Monitoring Indicator</b>	:	Sensory Parameter, Self-Life (Days)
<b>xvii.</b>	<b>Source of Technology (ICAR/AICRP/SAU/ Other, please specify)</b>	:	IIHR ANNUAL REPORT 2021.pdf

**10. 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	Insecticide management for input dealers & distributors	3,04,000
2	NICRA	15,50,000
3	Out scaling of natural farming	10,68,000
4	CSISA	4,00,000
5	CFLD	2,00,000
6	SWACHHATA	17,250
7	ARYA	10,00,000
8	Plant Health Clinic	5,00,000
9	DAMU	7,00,000

**11. No. of success stories proposed to be developed with their tentative titles**

Sl.no.	Titles
1	Ornamental fish: A new perspective to fish farming
2	Drip irrigation with mulching: A boon to pointed gourd farming
3	Custom hiring center for combined harvester
4	Integrated farming system: A sustainable approach to farming
5	Natural farming: way forward for future Agriculture
6	Off season Mushroom cultivation

**12. Scientific Advisory Committee**

Date of SAC meeting held during 2022-23	Proposed date during 2023-24
13.12.2022	2 <sup>nd</sup> week of December

**13. 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											
Water Samples	800											
Other (Please specify)												
Total	1300											




#### 14. Fund requirement and expenditure (Rs.)\*

Heads	Expenditure (last year) (Rs.) up to 31.03.2023	Expected fund requirement (Rs.)
Contingency	6,50,000	12,00,000
SCSP	20,00,000	25,00,000
TA	1,20,000	15,00,000
HRD	Nil	30,000
<b>Total</b>	<b>19,05,000</b>	<b>42,30,000</b>

\* Any additional requirement may be suitably justified.

#### 15. 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

Crop/ Enterprise	Thematic Area	Technology demonstrated	Horizontal spread of technology			Photographs
			No. of villages	No. of farmers	Area in ha	
Chilli	IPM	Soil application of neem cake @2.5 qt/ha, Installation of Blue sticky traps @50nos/ha, & need based application of Difenthiuron @1gm/lt&Spiromesifen 240 SC @ 0.6ml/ lit alternately at 10 days interval	86	467	98	
Pointed gourd		Use of 50 micron mulch film and inline dripper at a spacing of 4' width to conserve water and suppress the weed growth.	30	85	14	

Crop/ Enterprise	Thematic Area	Technology demonstrated	Horizontal spread of technology			Photographs
			No. of villages	No. of farmers	Area in ha	
Paddy	IPM	Nursery treatment with cartap hydrochloride 4G@ 0.8 kg a.i. per hectare + twice spraying of neem oil 3000ppm @3ml/lit and Indoxacarb 18.5SL@ 1ml/litre at 50DAT at 15 days interval + twice release of T. chilonis @ 50,000/ha 7days after each spraying.	104	1438	237	
Fish	Disease management	Application of Paracure I. V. (Ivermectin 2 % w/w) @ 250 gm/ 1 ton traditional fish feed fed @ 3-5% of body weight daily for 4-5 days to control Argulosis	134	409	39	
Poultry	Introduction of new breed	Rearing of Low Input type desi chicken Kadaknath	21	46	11500 birds	

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