

# Action Plan 2023



**KRISHI VIGYAN KENDRA CUTTACK**

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# **Action Plan** **(2023-24)**



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# Action Plan (2023-24)

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## **ACTION PLAN 2023-24**

### **1. Name of the KVK:**

<b>Address</b>	<b>Telephone</b>		<b>E mail</b>
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### **2.Name of host organization:**

<b>Address</b>	<b>Telephone</b>		<b>E mail</b>
	<b>Office</b>	<b>FAX</b>	
National Rice Research Institute, Cuttack-753 006 (Orissa)	0671- (2367768-783)	0671- 2367663	errictc@nic.in, directorrricuttack@gmail.com

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

#### **(a) Farmers and farmwomen**

<b>Thematic area</b>	<b>Title of Training</b>	<b>No.</b>	<b>Duration</b>	<b>Venue On/Off</b>	<b>Tentative Month</b>	<b>No. of Participants</b>								
						<b>SC</b>		<b>ST</b>		<b>Other</b>		<b>Total</b>		
						<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>T</b>
Integrated nutrient management	INM in vegetable crops	2	1	Off	July 2023	6	0	2	0	42	0	50	0	50
Nursery raising	Improved method of nursery raising in vegetables	2	1	Off	August 2023	10	0	5	0	35	0	50	0	50
Protected cultivation	Protected cultivation of vegetables	2	1	Off	October 2023	10	0	5	0	35	0	50	0	50
Exotic vegetable like Broccoli	High value vegetable crop: Broccoli cultivation	2	1	Off	October 2023	7	0	3	0	40	0	0	0	50
Nutritional management	Nutritional management in mango & banana	2	1	Off	December 2023	10	0	5	0	35	0	50	0	50
Export potential of ornamental plants	Export potential flower: Gerbera cultivation	2	1	Off	December 2023	10	0	5	0	35	0	50	0	50

Installation and maintenance of micro irrigation systems	Installation and maintenance of micro irrigation systems	1	5	On	December 2023	5	0	3	0	17	0	25	0	25
Design and development of low-cost nutritious diet	Preparation of millet and pulses based low-cost nutritious diet for women and children	2	2	Off /On	April 2023, January 2024	2	15	4	21	2	6	8	42	50
Women and child care	Micro - nutrients deficiency diseases and its food-based remedies	1	1	Off	May2023	0	7	0	9	0	9	0	25	25
Minimization of nutrient loss in processing	Minimization of nutrient loss in processing	1	1	Off	July2023	0	12	0	8	0	5	0	25	25
Gender mainstreaming through SHG	Formation and management of SHG for income generation	2	2	Off/On	August 2023 February2 024	0	27	0	17	0	6	0	50	50
Kitchen garden	Crop selection and management of kitchen garden for year-round production.	2	2	Off/On	June2023 Nov. 2023	2	15	4	21	2	6	8	42	50
Mushroom production	Production technology and scientific management of mushrooms	2	2	Off/On	October 2023 March202 4	2	15	4	21	2	6	8	42	50
Value addition	Post-harvest processing and value addition offruits and vegetables	1	1	Off	Nov2023	0	10	0	9	0	6	0	25	25
INM	Integrated nutrient management in rice	2	1	Off	August 2023	09	03	08	03	19	08	36	14	50
Nutrient use efficiency	Method of increase of Nitrogen use efficiency in rice	2	1	Off	Sept. 2023	06	04	07	05	19	09	32	18	50

Soil & water testing	Method of soil sample collection and understanding the soil health card	3	1	Off /On	February 2023	08	06	13	07	31	12	52	23	75
Management of problematic soil	Acid soil management for higher production	2	1	Off / On	December 2023	08	04	07	05	17	09	32	18	50
Organic production	Different Composting Methods	2	1	Off/On	November 2023	5	0	5	0	0	0	40	50	100
Micronutrient Management	Dose, scheduling and source of different micronutrients in vegetables	2	1	Off/On	October 2023	8	12	4	16	12	0	5	47	100
Repair and maintenance of farm machinery and implements	Small farm equipments repairing and maintenance	1	1	Off	Dec. 2023	0	10	0	9	0	6	0	25	25
Dairy Management	Scientific Dairy farming	4	1	Off /On	June 2023	06	04	04	06	12	68	22	78	100
Poultry Management	Scientific Poultry Rearing	4	1	Off	July 2023	06	07	12	65	02	08	20	80	100
Disease Management	Parasitic infestations and their management in livestock	2	1	Off	October 2023	03	03	05	06	06	27	14	36	50
Disease Management	Scientific prevention of FMD in livestock	2	1	Off	August 2023	02	08	04	06	07	23	13	37	50
Feed management	Feeding and Fodder Management of livestock	2	1	Off	November 2023	05	11	04	12	06	12	15	35	50
Production of quality animal products	Clean Milk Production	4	1	Off	January 2023	02	08	04	06	17	63	23	77	100
Others, if any (Goat farming)	Scientific sheep and goat rearing	2	1	Off	December 2023	04	03	07	17	08	11	19	31	50

**(b) Rural youths**

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants			
						SC	ST	Other	Total



						M	F	M	F	M	F	M	F	T
Nursery management	Propagation techniques in horticultural crops	1	5	On	September 2023	5	0	3	0	17	0	25	0	25
Seed production	Scientific method of vegetable seed production	1	5	On	November 2023	5	0	3	0	17	0	25	0	25
Bee-keeping	Production of Bee-colonies and wax sheets	1	5	On	November 2023	5	0	3	0	17	0	25	0	25
Value addition	Small scale processing and value addition of agricultural produce	1	5	On	January 2024	2	8	3	6	0	6	5	20	25
Production & use of Organic inputs	Commercial production of Organic inputs	2	5	On	Oct 2023	04	02	06	04	23	08	36	14	50
Integrated Farming system	Integrated Farming system	1	5	On	January 2024	2	8	3	6	0	6	5	20	25
Sheep and goat rearing	Scientific sheep and goat rearing	1	5	On	September 2023	01	01	07	02	11	03	19	06	25
Poultry production	Scientific Poultry Rearing	1	5	On	August 2023	01	01	08	02	09	04	18	07	25
Dairying	Dairy Farming for enterprise generation	1	5	On	July 2023	01	01	01	01	19	02	21	04	25
ICT application in agriculture	ICT based Agro-advisory services	1	5	On	September 2023	01	01	07	02	11	03	19	06	25

**(c) Extension functionaries**

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Productivity enhancement in vegetable crops	New techniques agro-in vegetable production	1	5	On	Oct.2023	5	2	3	0	10	5	18	7	25



Protected Cultivation	Protected cultivation of vegetable crops	1	5	On	Feb.2024	5	2	3	0	10	5	18	7	25
Household food security	Agro-based livelihood options	1	5	On	October 2023	02	02	03	01	14	03	19	06	25
Formation and Management of SHGs	Formation and Management of SHGs	1	5	On	November 2023	02	02	03	01	14	03	19	06	25
Productivity enhancement in field crops	Soil health management for sustainable production	2	5	On	Dec 2023	04	04	08	06	16	12	28	22	50
Management in farm animals	Scientific sheep and goat management	1	5	On	July 2023	03	01	04	02	10	05	17	08	25
Management in farm animals	Advances in poultry production	1	5	On	September 2023	02	01	03	02	10	07	15	10	25

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

#### Farmers and Farm women

Thematic Area	No · of Co ur ses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
I. Crop Production													
Weed Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Fodder production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, (cultivation of crops )	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No · of Co ur ses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	2	42	0	42	6	0	6	2	0	2	50	0	50
Water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Skill development	0	0	0	0	0	0	0	0	0	0	0	0	0
Yield increment	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery raising	2	35	0	35	10	0	10	5	0	5	50	0	50
Exotic vegetables like Broccoli	2	40	0	40	7	0	7	3	0	3	50	0	50
Export potential vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	2	35	0	35	10	0	10	5	0	5	50	0	50
Others, if any (Cultivation of Vegetable)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	152	0	152	33	0	33	15	0	15	200	0	200
b) Fruits													
Training and Pruning	0	0	0	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any(Nutritional management)	2	35	0	35	10	0	10	5	0	5	50	0	50
TOTAL	2	35	0	35	10	0	10	5	0	5	50	0	50
c) Ornamental Plants													
Nursery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental	2	35	0	35	10	0	10	5	0	5	50	0	50

Thematic Area	No · of Co ur ses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
plants													
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	35	0	35	10	0	10	5	0	5	50	0	50
d) Plantation crops													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
e) Tuber crops													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
f) Spices													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants													
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Post-harvest technology and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	12	222	0	222	53	0	53	25	0	25	300	0	300
III. Soil Health and Fertility Management													
Soil fertility management	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	2	19	8	27	9	3	12	8	3	11	36	14	50
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No · of Co ur ses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Management of Problematic soils	2	17	9	26	8	4	12	7	5	12	32	18	50
Micro nutrient deficiency in crops	2	17	9	26	8	4	12	7	5	12	32	18	50
Nutrient Use Efficiency	2	19	9	28	6	4	10	7	5	12	32	18	50
Soil and Water Testing	3	31	12	43	8	6	14	13	7	20	52	23	75
Organic production	2	19	9	28	6	4	10	7	5	12	32	18	50
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	13	122	56	178	45	25	70	49	30	79	216	109	325
IV. Livestock Production and Management													
Dairy Management	4	12	68	80	06	04	10	04	06	10	22	78	100
Poultry Management	4	02	08	10	06	07	13	12	65	77	20	80	100
Piggery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Disease Management	4	13	50	63	05	11	16	09	12	21	27	73	100
Feed management	2	6	18	24	04	7	11	04	11	15	14	36	50
Production of quality animal products	4	17	63	80	02	08	10	04	06	10	23	77	100
Others, if any (Goat farming)	2	08	11	19	04	03	07	07	17	24	19	31	50
TOTAL	20	58	218	276	27	40	67	40	117	157	125	375	500
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	2	2	15	17	4	21	25	2	6	8	8	42	50
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	2	3	16	19	2	15	17	3	11	14	8	42	50
Minimization of nutrient loss in processing	1	0	12	12	0	8	8	0	5	5	0	25	25
Gender mainstreaming through SHGs	2	0	27	27	0	17	17	0	6	6	0	50	50
Storage loss minimization techniques	1	0	12	12	0	8	8	0	5	5	0	25	25
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	1	0	10	10	0	9	9	0	6	6	0	25	25
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No · of Co ur ses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and child care	1	0	7	7	0	9	9	0	9	9	0	25	25
Mushroom production	2	2	15	17	4	21	25	2	6	8	8	42	50
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	12	7	114	121	10	108	118	7	54	61	24	276	300
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems	1	17	0	17	5	0	5	3	0	3	25	0	25
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	1	17	0	17	5	0	5	3	0	3	25	0	25
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Post-Harvest Technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	34	0	34	10	0	10	6	0	6	50	0	50
VII. Plant Protection													
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Disease Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
VIII. Fisheries													
Integrated fish farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Composite fish culture & fish disease	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	0	0	0	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No · of Co ur ses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
IX. Production of Inputs at site													
Seed Production	0	0	0	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
X. Capacity Building and Group Dynamics													
Leadership development	0	0	0	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	0	0	0	0	0	0	0	0	0	0	0	0	0

Thematic Area	No · of Co ur ses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
XI Agro-forestry													
Production technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
XII. Others (Pl. Specify)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	71	665	388	1053	198	173	371	152	201	353	1015	760	1775

## 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	0	0	0	0	0	0	0	0	0	0	0	0	0
Bee-keeping	1	17	0	17	5	0	5	3	0	3	25	0	25
Integrated farming	1	19	02	21	01	01	02	01	01	02	21	04	25
Seed production	1	17	0	17	5	0	5	3	0	3	25	0	25
Production of organic inputs	2	26	8	34	4	2	6	6	4	10	50	0	50
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops	1	17	0	17	5	0	5	3	0	3	25	0	25
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	1	05	14	19	01	03	04	01	01	02	07	18	25
Production of quality animal products	0	0	0	0	0	0	0	0	0	0	0	0	0
Dairying	1	19	02	21	01	01	02	01	01	02	21	04	25



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
Sheep and goat rearing	1	11	03	14	01	01	02	07	02	09	19	06	25
Quail farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Poultry production	1	09	04	13	01	01	02	08	02	10	18	07	25
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Post-Harvest Technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise development	0	0	0	0	0	0	0	0	0	0	0	0	0
Others if any (ICT application in agriculture)	1	11	03	14	01	01	02	07	02	09	19	06	25
TOTAL	11	151	36	187	25	10	35	40	13	53	230	45	275

### 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	2	18	12	30	04	04	08	06	06	12	28	22	50
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	1	10	7	17	4	1	5	3	8	11	17	8	25
Formation and Management of SHGs	1	10	5	15	5	2	7	3	0	3	18	7	25

Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0	0	0	0
Care & maintenance of farm machinery & implements	0	0	0	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0	0	0
Management in farm animals	2	20	10	30	06	02	08	08	04	12	34	16	50
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0	0	0	0
Household food security	1	2	8	10	3	6	9	0	6	6	5	20	25
Women and Child care	0	0	0	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Crop intensification	0	0	0	0	0	0	0	0	0	0	0	0	0
Productivity enhancement in vegetable crops	1	10	5	15	5	2	7	3	0	3	18	7	25
<b>TOTAL</b>	<b>8</b>	<b>70</b>	<b>47</b>	<b>117</b>	<b>27</b>	<b>17</b>	<b>44</b>	<b>23</b>	<b>24</b>	<b>47</b>	<b>120</b>	<b>80</b>	<b>200</b>

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

FLD-1	
Crop	Brinjal
Thrust Area	Nutrient management
Thematic Area	Integrated nutrient management
Season	Rabi 2023
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	Brinjal	5/10	Use of NPK-100:60:80  Azospirillum and PSM-10kg/ha as basal application in the final land preparation.  Zn,B-50ppm each twice before flowering and lowering. (IIVR-2005)	No of fruits/plant, yield/plant, % of flower drops off,net income, BC ratio	Azospirillum and PSM-10kg/ha  Micro-nutrient 2ml/lt of water	-	-	2	1	-	-	-7	0	9	1	10

<b>FLD-2</b>	
Crop	Broccoli
Thrust Area	Crop diversification
Thematic Area	High value crops
Season	Rabi 2023
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
2	Broccoli	1/10	Raising Broccoli cultivars having characteristics like head compact, light green with small buds, weighing 600 grams, duration 125 days,yield-160q/ha. (IARI-2002)	Head weight,yield/g unth, net income, BC ratio	Seed/  Syngenta /  Know you seed/  Tokita seed	-	-	2	1	-	-	-7	0	9	1	10

<b>FLD-3</b>	
Crop	Plug-tray technology
Thrust Area	Nursery raising
Thematic Area	Improved method of seedling raising
Season	Rabi 2023
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
3	Plug-tray technology	10/10	Use of pro-tray having cell volume-20cc suitable for Brinjal, Tomato.  Media used- cocopeat and vermicompost  Fertilizer used- NPK(19:19:19)	% of seedling mortality,% of less seed rate, yield/plant, economics, BC ratio	Agro shed net 75%, UV stabilized polythene, plug-tray, cocopit	-	-	2	1	-	-	-7	0	9	1	10

<b>FLD-4</b>	
Crop	Red Cabbage
Thrust Area	Crop diversification
Thematic Area	High value crops
Season	Rabi 2023
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
4	Red cabbage	1/10	(IARI-2016) Red Cabbage cultivation for improved taste and quality	Head weight, Sale price per head(Rs), Keeping quality(days), taste quality, yield/ha, BC ratio	Red cabbage-Primero, Red Jewel, Royal bulb	-	-	2	1	-	-	-7	0	9	1	10

<b>FLD-5</b>	
Crop	Oyster Mushroom
Thrust Area	Waste utilization
Thematic Area	Mushroom production
Season	Rabi 2023
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
5	Mushroom	10 no.	Demonstration on Oyster Mushroom (ICAR-DMR)	Yield, B:C Ratio, sale price	Oyster Mushroom spawn and related materials	-	-	2	1	1	1	2	3	5	5	10

<b>FLD-6</b>	
Crop	Nutrition Garden
Thrust Area	Nutritional security
Thematic Area	Kitchen garden
Season	Year round
Farming Situation	Backyard

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
6	Nutrition	10 No.	Demonstration	Yield,	Vegetables	-	-	-	3	-	2	-	5	0	10	10

	Garden		onNutrition Garden	Nutrient availability, B:C ratio	e seed, organic/b io-based nutrient and plant protectio n measures											
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<b>FLD-7</b>	
Crop	Millets
Thrust Area	Nutritional security
Thematic Area	Value addition
Season	Year round
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
7	Millets	10 No.	<b>Demonstration</b> on Value added product from Millets (IIMR- 2021)	Shelf life, Yield (Conversion ratio) B:C ratio	Millet Powder, ingredien ts required for product preparati on.	-	-	-	3	-	2	-	5	0	10	10

<b>FLD-8</b>	
Crop	Tomato
Thrust Area	Income generation
Thematic Area	Value addition
Season	Rabi-2023



Farming Situation	Homestead
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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
8	Tomato	10	Demonstration of Tomato value addition for increasing the shelf life (TNAU-2015)	Shelf life Yield (Conversion ratio) B:C ratio				1	2	1	1	1	4	3	7	10

<b>FLD-9</b>	
Crop	Rice
Thrust Area	INM
Thematic Area	INM
Season	Kharif -2023
Farming Situation	Rain fed 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
9	Rice	02/10	Need based N application will reduce N loss and increase efficiency (NRRI, 2010)													10

<b>FLD-10</b>	
Crop	Rice
Thrust Area	Integrated Nutrient Management in Rice
Thematic Area	INM

Season	Kharif - 2023
Farming Situation	Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
10	Rice	02/10	Growing <i>Sesbania</i> up to 25 days and knocked down by 2-4-D	Yield (q/ha) BC Ratio: Organic Carbon(%)												10

<b>FLD-11</b>	
Crop	Cauliflower
Thrust Area	Integrated Nutrient management in Vegetable
Thematic Area	INM
Season	Rabi-2023
Farming Situation	Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
11	Cauliflower	02/10	Azotobacter + PSB (1:1) @ 5 kg/ha mixed with FYM (1:25) under shade at 30% moisture for 7 days & applied at the time of planting	Yield (q/ha)  BC Ratio:  Self-life												10

<b>FLD-12</b>	
Crop	Green gram
Thrust Area	Rice-fallow pulse cultivation
Thematic Area	INM strategies for pulse cultivation ( Mung)
Season	Rabi 2023
Farming Situation	Rainfed 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
12	IPM2-43	3/13	Use of NPK-Seed treatment with Rhizobium culture (@200g/kg seed),20:40:20 and B application (@1kg B/ha) (OUAT)	Pods/ Plant, Yield/ ha,net income, B:C	Seed,Boron,Biofertilizer and Plant protection chemicals as when required	-	-	-	-	-	-	-	-	-	-	13

<b>FLD-13</b>	
Crop	<b>Pulses</b>
Thrust Area	Rice-fallow pulse cultivation
Thematic Area	Cultivation of short duration pulses
Season	Rabi-2023-24
Farming Situation	Rainfed

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
13	Pulses(Virat and PU 31)	3/13	Use of NPK-20:40:20 Thiram or mancozeb @3-4 g and Rhizobium@10 ml/kg seed; Sowing Time-Nov 1-15 (OUAT)	Pods/Plant, Yield/ha ,net income, B:C	Seed/ Plant protection chemicals as when required											13

#### FLD-14

Crop	Backyard PoultryvarVanaraja
Thrust Area	Breed Replacement
Thematic Area	Poultry management
Season	Whole the year 2023
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
14	Backyard poultry var. Vanaraja	800 nos/ 40 units	20 Vanaraja chicks, Ranikhet and IBD vaccination, brooding for 14-21 days and need based medicines and supplements (DPR, Hyderabad)	Mortality rate, body weight at 3,6 months,eggs per hen per month,net income, B:C	Chicks, brooding materials like vaccines, feed and need based medicines and supplements											40

<b>FLD-15</b>	
Crop	Duckeryvar Khaki Campbell
Thrust Area	Breed Replacement
Thematic Area	Poultry management
Season	Whole year 2023
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
15	DuckeryvarKhakicampbell	600 nos/30 units	20 Khaki Campbell ducklings, brooding for 14 days and need based medicines and supplements (DPR Regional Centre, Bhubaneswar)	Mortality rate, body weight at 3,6 months, eggs per duck per month, net income, B:C	Duckling, brooding materials like feed and need based medicines and supplements											30

<b>FLD-16</b>	
Crop	Hybrid Napiervar. Super Napier
Thrust Area	Variety introduction
Thematic Area	Feed and Fodder management
Season	Kharif& Rabi 2023
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
16	Hybrid Napier var Super Napier	1/13	Super Napier plantlets, 60 kg N, 20 kg of P and 27 kg of K per acre. Azospirillum & phosphonates (800 g) per acre	Yield/ha, net income, B:C	Plantlets/ Fertilizer as required											13

<b>FLD-17</b>	
Crop	Azolla
Thrust Area	Variety introduction
Thematic Area	Feed and Fodder management
Season	Kharif & Rabi 2023
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
17	Azolla	20 pits	Azolla fodder, demonstration pits (6'×3') (NRRI)	Yield/unit, net income, B:C	Azolla, Azolla pit construction materials/ Polypack											20

**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	
Training	Improved Agro. Techniques in vegetables crops	2	F/FW	1	Off	5	4	4	5	24	8	33	17	50
Training	Protected cultivation of vegetable crops	2	F/FW	1	Off	5	4	4	5	24	8	33	17	50
Field day		4	F/FW	1	Off									400
Training	Value addition of Tomato	1	RY	1 Day	On	0	1	0	1	0	8	0	10	10
Training	Agro-based livelihood options for SHGs	1	EF	2 Days	On	0	1	0	2	0	12	0	15	15
Group meeting	kitchen garden	2	F/FW	2 Days	OFF	2	2	1	1	7	37	10	40	50
Training	Preparation of value added products from millets	1	F/FW	1 Day	OFF	0	0	0	0	5	20	5	20	25



Training	Short duration Pulse cultivation in rice fallow condition	2	F/FW	2Days	OFF	7	3	4	5	21	10	32	18	50
Training	Scientific Poultry Rearing	4	F/FW	4Days	OFF	02	08	06	07	12	65	20	80	100

\*Repeat the above tables and information in Point no. 4 for EACH FLD being proposed.

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

Name of the Crop / Enterprise	Variety / Type	Period From..... to .....	Area (ha.)					
				Type of Produce	Expected Production (No. /quintal)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Black gram	Pratap Urd-1	2023	12	Seed	120 quintal		720000.00	

**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 Produce	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		
			M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day	02	225	89	314	10	7	3	10	232	92	324
2.	KisanMela	01	158	142	300	15	15	3	18	173	145	318
3.	KisanGosthi	05	208	72	280	15	6	4	10	214	76	290
4.	FAP on GKMS	10	670	290	960	25	20	5	25	690	310	1000
5.	Exhibition	02										
6.	Film Show	25	325	300	625	10	10	2	12	335	302	637
7.	Method Demonstrations	12	189	171	360	12	15	03	18	204	174	378
8.	Farmers Seminar	04	135	45	180	25	05	01	06	140	46	186
9.	Workshop	01	85	35	120	15	10	03	13	95	38	133
10.	Group meetings	10	168	132	300	15	15	05	20	183	137	320
11.	Lectures delivered as resource persons	20	380	120	500	0	0	0	0	380	120	500
12.	Advisory Services	85										Mass
13.	Scientific visit to farmers field	90	657	322	979	12	51	26	77	708	348	1056
14.	Farmers visit to KVK	25	150	150	300	25	22	12	34	172	162	334
15.	Diagnostic visits	41	240	200	440	22	24	10	34	264	210	474
16.	Exposure visits	05	120	120	240	10	0	0	0	120	120	240
17.	Ex-trainees Sammelan	02	25	25	50	12	05	01	06	30	26	56
18.	Soil health Camp	02	124	32	156	14	05	02	07	129	34	163
19.	Animal Health Camp	04	130	70	200	35	12	01	13	142	71	213
20.	Agri mobile clinic	04	0	0	0	0	0	0	0	0	0	0
21.	Soil test campaigns	05	150	50	200	10	10	02	12	160	52	212
22.	Farm Science Club Conveners meet	00	0	0	0	0	0	0	0	0	0	0
23.	Self Help Group Conveners meetings	01	0	60	60	15	2	2	4	2	62	64
24.	MahilaMandals Conveners meetings	01	0	60	60	15	2	2	4	2	62	64
25.	Awareness on Millet	8	163	37	200	10	8	2	10	171	39	210
26.	Awareness on Natural Farming	8	173	27	200	10	8	2	10	181	29	210
<b>Important day celebration</b>												
27.	Sankalp Se Siddhi	01	54	46	100	10	5	1	6	59	47	106

28.	Swatchta Hi Sewa	05	250	350	600	15	6	2	8	256	352	608
29.	MahilaKisanDiwas	01	2	100	102	20	02	04	06	04	104	108
30.	International Women Day	01	45	55	100	15	02	0	02	47	55	102
31.	Any Other (World Food Day)	01	25	75	100	12	02	01	03	27	76	103
32.	World Veterinary Day	01	85	25	110	8	10	0	10	95	25	120
33.	World Soil Day	01	75	25	100	12	04	1	05	79	26	105
34.	National Eat your Vegetables Day	01	60	40	100	10	03	1	04	68	46	104
35.	World Meteorological Day	01	65	45	110	10	03	1	04	68	46	114
36.	World Milk Day	01	45	55	100	15	02	0	02	47	55	102
37.	Agriculture Education Day	01	125	125	250	10	5	0	5	130	125	255
38.	KisanDiwas	01	45	55	100	15	02	0	02	47	55	102
39.	World Water Day	01	75	25	100	12	04	1	05	79	26	105
40.	World Egg Day	01	25	75	100	12	02	01	03	27	76	103
41.	World Rabies Day	01	125	125	250	10	5	2	7	130	127	257
42.	National Science Day	01	125	125	250	10	5	2	7	130	127	257
43.	Technology Week	01	315	215	530	15	12	3	15	327	218	545
	<b>Total</b>	<b>394</b>	<b>6016</b>	<b>4110</b>	<b>10126</b>	<b>543</b>	<b>326</b>	<b>111</b>	<b>437</b>	<b>6347</b>	<b>4241</b>	<b>6492</b>

## 7. Revolving Fund (in Rs.)

Opening balance of 2021-2022 (As on 01.04.2022)	Amount proposed to be invested during 2022	Expected Return
Nil	-	-

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

Project	Source	Amount to be received (Rs. in lakh)
ARYA	ICAR	9.0
WORLD FISH-CIFT	World Fish Project	2.0

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

### OFT-I (Horticulture)

i	Season:	Rabi,2023
ii	Title of the OFT:	<b>Assessment of the performance of grafted Tomato varieties towards protection against soil borne diseases in Cuttack district</b>
iii	Thematic Area:	Varietal substitution
iv	Problem diagnosed:	Tomato plants are severely affected with soil-borne diseases such as bacterial wilt, root knot nematode, and Fusarium wilt.
v	Important Cause:	In acidic soil soil-borne diseases are more severe.
vi	Production system:	Rice-vegetable-vegetable
vii	Micro farming system:	Vegetable-vegetable
viii	Technology for Testing:	Grafted Tomato varieties
ix	Existing Practice:	Hybrid Tomato: Chirnjeeb (Seminis)
x	Hypothesis:	Saaho grafted tomato plants are resistant towards soil borne diseases
xi	Objective(s):	To find out suitable grafted tomato varieties suitable for disease prone areas in Cuttack district
xii	Treatments:	
	Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II):	FP:Chiranjeevi (Seminis) TO-1: -Prishi (Clause) TO-11: Saaho(Syngenta)
xiii	Critical inputs	seed
xiv	Unit Size:	1guntha(160m2)
xv	No of Replications:	7
xvi	Unit Cost: (Rs)	500
xvii	Total Cost: (Rs)	3500
xviii	Monitoring Indicator:	shelf life after harvest,% of disease infestation, % of mortality yield/plant, yield /ha,B:C ratio
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	(IIHR,2020)

**OFT-II (Horticulture)**

i	Season:	Kharif,2023
ii	Title of the OFT:	<b>Assessment of Moringa cultivars superior in yield and quality for Cuttack district</b>
iii	Thematic Area:	Varietal substitution
iv	Problem diagnosed:	Lack of awareness towards Moringa as a Super food and Lack of suitable cultivars for higher production and productivity in the district.
v	Important Cause:	Lack of suitable commercial varieties of Moringa though it is known as nutritionally rich super food.
vi	Production system:	Rice-vegetable-vegetable
vii	Micro farming system:	Rice-Vegetable-vegetable
viii	Technology for Testing:	Moringa cultivars superior in yield and quality.
ix	Existing Practice:	Moringa: Local large tree Moringa
x	Hypothesis:	ODC-3 is superior in yield and quality in Cuttack district.
xi	Objective(s):	To find out suitable commercial Moringa cultivars for Cuttack district
xii	Treatments:	
	Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II):	Cultivars of Moringa TO <sub>1</sub> : Farmers Practice- Local large tree Moringa TO <sub>2</sub> : PKM1, TO <sub>3</sub> : PKM2, TO <sub>4</sub> : ODC-3 TO <sub>5</sub> : Bhagya
xiii	Critical inputs	seed
xiv	Unit Size:	5 guntha(800m <sup>2</sup> )
xv	No of Replications:	7
xvi	Unit Cost: (Rs)	500
xvii	Total Cost: (Rs)	3500
xviii	Monitoring Indicator:	No of pods/plant, Pod length and weight, Organoleptic evaluation Percentage of disease infestation, yield/plant, B:C ratio
xix	Source of Technology (ICAR/AICRP/ SAU/ Other, please specify):	(IIHR,2018)

**OFT-I (Home Science)**

i	Season	Kharif,2023
ii	Title of the OFT	Assessment of the improved techniques for cultivation of Paddy straw mushroom ( <i>V.volvacea</i> ) using crumpled straw
iii	Thematic Area	Mushroom cultivation
iv	Problem diagnosed	High cost of production and low income due to less yield
v	Important Cause	Unavailability of unthreshed/Bundled paddy straw
vi	Production system	Homestead
vii	Micro farming system	-
viii	Technology for Testing	Crumpled straw with as substrate for paddy straw mushroom cultivation with different age of mushroom spawn
ix	Existing Practice	Mushroom production by using unscrambled paddy straw with unknown days age spawn
x	Hypothesis	Utilization of the scrambled paddy straw gives additional income and proper resource management

xi	Objective(s)	To reduce cost of production and use of quality spawn for the cultivation of <i>V. volvacea</i> for enhanced yield.
xii	Treatments	
	Farmers Practice	(FP) Mushroom production by using unscrambled paddy straw with normal practice (soaking of 7kg straw in water for 8hrs, bed preparation with addition of spawn and pulse powder 3%)
	Technology option-I	TO-I: Rectangle compact bed size (45x60x30 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 2% of dry substrate weight and coarsely ground horse gram powder (at 2% dry substrate weight).
	Technology option-II	TO-II: Circular compact bed size -(45 cm diameter, 30 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 2% of dry substrate weight and coarsely ground horse gram powder (at 2% dry substrate weight)
xiii	Critical Inputs	Mushroom spawn, Polythene, Bengal gram flour, CaCo <sub>3</sub> ,
xiv	Unit Size	40 beds/unit
xv	No of Replications	7
xvi	Unit Cost	1500
xvii	Total Cost	10500
xviii	Monitoring Indicator	Cost of intervention. Additional income over additional investment, Yield (kg/bed), B:C ratio, Days to first flush, Size of fruit budding, Average fruit body wt. Pin head appearance (Days), Biological efficiency
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	OUAT- 2014, TNAU-2012

## OFT-II (Home Science)

i	Season	Rabi, 2023
ii	Title of the OFT	Assessment of value-added products of oyster mushroom
iii	Thematic Area	Value addition
iv	Problem diagnosed	Low income from oyster mushroom production
v	Important Cause	Distress sale oyster mushroom
vi	Production system	Homestead
vii	Micro farming system	-
viii	Technology for Testing	Value added products of oyster mushroom
ix	Existing Practice	Selling the oyster mushroom in very low price
x	Hypothesis	Enhancement of product value and quality through value addition
xi	Objective(s)	Utilization of surplus production for sustainable income
xii	Treatments	
	Farmers Practice	No value addition, Selling of oyster mushroom in the market in very low price
	Technology option-I	Mushroom Cookies (Wheat flour, Butter, sugar (Powdered), mushroom powder, baking powder, Vanilla essence required for making dough & cut pieces are kept in a greased tray and bake in preheated oven (180 °C for 15-20 minutes)
	Technology option-II	Mushroom Chakli (Rice powder, black gram powder, mushroom powder, oil, spices required for making dough & prepare spiral chaklis for deep frying)

	Technology option-III	Mushroom pickle (Fresh mushroom, spices,salt, vinegar, oil required for pickle preparation)
xiii	Critical Inputs	Fresh mushroom, mushroom powder, and ingredients required for preparation of cookies, chakli and pickle
xiv	Unit Size	20 kg/Unit
xv	No of Replications	10
xvi	Unit Cost	800
xvii	Total Cost	8000
xviii	Monitoring Indicator	Yield (kg), Shelf life (days), Cost of Input(Rs) Incremental income (Rs), Net income (Rs), BC ratio
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	DMR,2015

### OFT-I (Soil Science)

i	Season:	Khrif
ii	Title of the OFT:	Real time Nitrogen management in medium land Rice by ICAR-NRRI developed N-Xpert app
iii	Thematic Area:	Integrated Nutrient Management
iv	Problem diagnosed:	Erratic use of nitrogenous fertilizer
v	Important Cause:	Farmers use nitrogenous fertilizer in a imbalance manner
vi	Production system:	Rice-Pulse
vii	Micro farming system:	Rice-Green gram
viii	Technology for Testing:	Use of N=Xpert app for fertilizer N application
ix	Existing Practice:	Erratic dose of N fertilizer
x	Hypothesis:	Use of N-Xpert app will increase the N use efficiency
xi	Objective(s):	To popularize and establish the N-Xpert app for application of Nitrogenous fertilizer Urea.
xii	Treatments:	
	Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II):	TO1:Farmers practice TO2:Recommended dose of N(80kg/ha) TO3:N application through N-Xpert App
xiii	Critical inputs	Nil
xiv	Unit Size:	6gunth
xv	No of Replications:	12
xvi	Unit Cost: (Rs)	0
xvii	Total Cost: (Rs)	0
xviii	Monitoring Indicator:	Yield(q/ha), Plant height, Effective tiller no., Saving of N fertilizer,BC ratio
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	ICAR-NRRI Cuttack

### OFT-II (Soil Science)

i	Season:	Rabi
ii	Title of the OFT:	Assessment of nitrogen efficient rice variety IET-28084
iii	Thematic Area:	Introduction of N efficient variety
iv	Problem diagnosed:	The ruling varieties were less N responsive
v	Important Cause:	Less efficient rice variety in the farming situation
vi	Production system:	Rice- Pulse
vii	Micro farming system:	Rice- Green gram
viii	Technology for Testing:	Rice variety IET-28084
ix	Existing Practice:	Swarna(MTU 1001)



x	Hypothesis:	Rice variety IET-28084 will increase the N efficiency
xi	Objective(s):	To substitute the ruling variety with the new one .
xii	Treatments:	
	Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II):	TO1: Farmers practice (Dominant variety) TO2: Nitrogen efficient Rice variety IET-28084
xiii	Critical inputs	IET-28084
xiv	Unit Size:	3guntha
xv	No of Replications:	12
xvi	Unit Cost: (Rs)	250
xvii	Total Cost: (Rs)	3500
xviii	Monitoring Indicator:	Yield(q/ha), Plant height, Effective tiller no., Quantity of N fertilizer used,BC ratio
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	ICAR-NRRI Cuttack

### OFT-I (Agro-meteorology)

i	Season:	Kharif, 2023
ii	Title of the OFT:	Assessment of rice variety CR-Dhan 101,102 against local variety in drought condition
iii	Thematic Area:	Climate resilience agriculture
iv	Problem diagnosed:	High crop loss due to drought especially in reproductive phase
v	Important Cause:	Farmers use their own cultivars year after year.
vi	Production system:	Rice-pulse
vii	Micro farming system:	Rice-pulse, irrigated
viii	Technology for Testing:	Drought tolerant varieties impart resilience to farmers in extreme weather condition
ix	Existing Practice:	Local cultivar :Lalat
x	Hypothesis:	CR-Dhan 101,102 are resistant to drought condition
xi	Objective(s):	To find out suitable varieties resistant to drought.
xii	Treatments:	
	Farmers Practice (FP): Technology option-I (TO-I):	Lalat TO-1: Tolerant variety –CR-Dhan 101 TO-2: Tolerant variety –CR-Dhan 102
xiii	Critical inputs	Seed
xiv	Unit Size:	1 guntha (160 m <sup>2</sup> )
xv	No of Replications:	10
xvi	Unit Cost: (Rs)	500
xvii	Total Cost: (Rs)	5000
xviii	Monitoring Indicator:	Plant height, effective tiller/sq. m, filled grain/panicle, grain yield, net income, B:C
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	NRRI, Cuttack

### OFT II Animal Science

i	Season:	Whole the year, 2023
ii	Title of the OFT:	Assessment of mineral-vitamin supplements and/or feed at critical

		periods on production and reproduction performance of goats
iii	Thematic Area:	Feeding Management
iv	Problem diagnosed:	Low body weight gain and reproduction performance
v	Important Cause:	Nutrient deficiency particularly minerals and protein
vi	Production system:	Rice-Goatery
vii	Micro farming system:	Rice-Goatery
viii	Technology for Testing:	Feed and mineral-vitamin premix
ix	Existing Practice:	No feed or mineral-vitamin premix supplementation
x	Hypothesis:	Feed and mineral-vitamin mixture supplementation at critical periods help in optimizing performance and reproduction traits
xi	Objective(s):	To find out comparative effect of feed and mineral-vitamin premix supplementation at field level on performance of goats
xii	Treatments:	
	Farmers Practice (FP): Technology option-I (TO <sub>1</sub> ): Technology option-II (TO <sub>2</sub> ):	No feed or mineral mixture TO <sub>1</sub> : Feeding of mineral-vitamin premix @ 10-20 g/d from 3 <sup>rd</sup> month of pregnancy till 60 <sup>th</sup> day of lactation (5 months feeding) TO <sub>2</sub> : Feeding of mineral-vitamin premix @ 10-20 g/d and concentrate mixture (50-200 g/d) from 3 <sup>rd</sup> month of pregnancy till 60 <sup>th</sup> day of lactation (5 months feeding)
xiii	Critical inputs	Mineral-vitamin premix and Feed
xiv	Unit Size:	Minimum 15 animals per unit
xv	No of Replications:	6
xvi	Unit Cost: (Rs)	2000 + 5000
xvii	Total Cost: (Rs)	45000
xviii	Monitoring Indicator:	Lactation yield, Lactation length, kid Weight, conception rate, incidence of retention of placenta and mastitis, BC ratio
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	(CIWA, 2020)

## OFT II Animal Science

i	Season:	Whole the year, 2023
ii	Title of the OFT:	Assessment of the performance of improved poultry breeds in backyard system
iii	Thematic Area:	Breed Replacement
iv	Problem diagnosed:	Low body weight and low egg production of deshi poultry
v	Important Cause:	Low genetic potential
vi	Production system:	Rice-Poultry
vii	Micro farming system:	Rice-Poultry
viii	Technology for Testing:	High genetic potential poultry breeds
ix	Existing Practice:	Rearing of local chicken breeds
x	Hypothesis:	Improved birds grow faster and lay more number of eggs
xi	Objective(s):	To find out which breed grows faster and lays more number of eggs
xii	Treatments:	
	Farmers Practice (FP): Technology option-I (TO <sub>1</sub> ): Technology option-II (TO <sub>2</sub> ):	Farmers Practice TO <sub>1</sub> : Aseel TO <sub>2</sub> : Kadaknath

xiii	Critical inputs	Chicks, feed, medicines and supplements
xiv	Unit Size:	20×3
xv	No of Replications:	07
xvi	Unit Cost: (Rs)	3200
xvii	Total Cost: (Rs)	24500
xviii	Monitoring Indicator:	Mortality rate, Body weight gain, Age of first laying, Egg production, BC ratio
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	(OUAT, 2017 & DPR, Hyderabad, 2009)

#### 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.	ARYA	900000
2.	Pulse Seed Hub	-
3.	World Fish-ICAR W3	200000
4.	Natural Farming	1069058
5.	CFLD-Oilseeds	360000
6.	GKMS – DAMU	1500000

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

Three

#### 12. Scientific Advisory Committee

Date of SAC meeting held during 2022	Proposed date during 2023
19.05.2022	May 2023

#### 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	100	10	0	11		29	0	50	0	50	2	500
Water Samples												
Other (Please specify)												
Total	100	10	0	11		29	0	50	0	50	2	500

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

Heads	Expenditure (last year) (Rs.) up to 31.03.2022	Expected fund requirement (Rs.)
Pay and Allowances	8995249.00	11000000
TA	12275.00	120000

<b>Rec. Contingency</b>	1099640	1200000
<b>Works</b>	6067178	5446000
<b>Office Equipment &amp; Furniture</b>	148198	400000
<b>Library</b>	00	200000
<b>SCSP Cont.</b>	1261803	1500000
<b>Total</b>	<b>17584343</b>	<b>19866000</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**