

ACTION PLAN

2022-23



**KRISHI VIGYAN KENDRA,
SUNDARGARH-1**



**Odisha University of Agriculture & Technology,
Bhubaneswar-3**

REVISED PROFORMA FOR ACTION PLAN 2022

1. Name of the KVK:Sundargarh-1, Kirei, Odisha

Address	Telephone	E mail
At/PO- Kirei – 770073, Dist : Sundargarh ODISHA		kvksundargarh1.ouat@gmail.com pckvksng@yahoo.co.in

2. Name of host organization :

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture and Technology, Bhubaneswar, ODISHA PO- Surya Nagar, PIN – 751 003	(+91) 674 2397970/2397818/ 2397719/ 2397669 / 2397719 / 2397919 / 2397868		registrarouat@gmail.com

3. Training programme to be organized (April 2022 to March 2023)

(a) Farmers and farmwomen

Sl no	Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants																
							SC		ST		Other		Total										
							M	F	M	F	N	F	M	F	T								
1	Mobilization of social capital	Formation and management of Farmer Producer organizations	1	1	Off campus	4/6/2022																	30
2	Nursery management	Techniques of nursery raising in rice	1	1	Off campus	8/6/2022																	30
3	ICM	Improved Turmeric cultivation practices (TSP)	1	2	Off Campus	9-10/6/2022																	30
4	Nursery management	Techniques of nursery raising in rice	1	1	Off campus	16 th June 2022																	30
5	Household food security by nutritional gardening	Nursery raising of vegetables under low cost poly tunnel and pro trey(TSP)	2	2	Off campus	21/6/2022 & 22/6/2022																	30
6	INM	Importance of soil testing and balanced fertilizer application in crops	1	1	Off campus	22/6/2022																	30
7	IGA	Production of paddy straw mushroom in threshed straw for income generation(TSP)	1	1	Off campus	27/6/2022																	30
8	Pisciculture	Pre stocking management of Fish Ponds	1	1	Off campus	4/7/2022																	30
9	ICM	Improved Agronomic package and practices for ragi cultivation	2	2	Off campus	18 th July 2022																	30
12	Pisciculture	Weed management in	1	1	Off	5/7/2022																	30

Sl no	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					
		Fish pond			campus															
13	Household food security by nutritional gardening	Importance of nutri garden & layout of model nutrigarden (TSP)	2	2	Off campus	6/7/2022 & 7/7/2022														30
14	Soil and Water Testing	Importance of soil testing and balanced fertilizer application in crops	1	1	Off campus	7/7/2022														30
15	IGA	Production of paddy straw mushroom for income generation (TSP)	2	2	Off campus	8/7/2022														30
16	Pisciculture	Seed rearing and Production of Yearlings	2	1	Off campus	11/7/2022														30
17	Household food security by nutritional gardening	Nutritional Garden for Nutritional Security of farm families Backyard (TSP)	1	2	Off campus	15/7/2022														30
18	Micro nutrient deficiency in crops	Micro and secondary nutrient application in rice	1	1	Off campus	21/7/2022														30
19	INM	Micro and secondary nutrient application in rice	1	1	Off campus	22/7/2022														30
20	IWM	Improved Agronomic package and practices for DSR	1	1	Off campus	24st July 2022														30
21	INM	Management of acid soil	1	1	Off campus	29/7/2022														30
22	IGA	Post-harvest management of paddy straw mushroom bed	1	1	Off campus	30/7/2022														30
23	INM	INM in Ragi	1	1	Off campus	1/8/2022														30
24	INM	INM in Pulses	1	1	Off campus	5/8/2022														30
25	Pisciculture	Species Selection and stocking density management in fish Pond	1	1	Off campus	6/8/2022														30
26	Crop diversification	Improved package and practices for Arhar cultivation	1	1	Off campus	8 th august 2022														30
27	IWM	Integrated weed management in DSR	1	1	Off campus	18 th August 2022														30
28	leadership management	Formation of groups for aggregation and marketing of village produce	1	1	Off campus	19/8/2022														30
29	INM	Integrated weed management in transplanted rice	2	2	Off campus	30 th August 2022														30

Sl no	Thematic area	Title of Training	N o.	Durat ion	Venue On/ Off	Tentative Date	No. of Participants														
							SC		ST		O th er		Total								
							M	F	M	F	M	F	M	F	M	F	T				
30	leadership management	Formation of of groups for aggregation and marketing of village produce	1	1	Off campus	2/9/2022															30
31	ICM	Agronomic Package & practices for maize cultivation	1	1	Off campus	05 th September 2022															30
32	Pisciculture	Fish feed preparation and feeding management in fish pond	1	1	Off campus	6/9/2022															30
33	Nursery management	Raising of seedlings through low cost polytunnel and protray	1	1	Off campus	26/9/2022															30
34	INM	INM in tomato	1	1	Off campus	28/9/2022															30
35	INM	INM in cole crops	1	1	Off campus	6/10/2022															30
36	ICM	Management of rice fallow area	1	1	Off campus	12 th October 2022															30
37	Mushroom	Production technology of Oyster mushroom for Income generation	1	2	Off campus	12/10/22 to 13/10/22															30
38	Marketing	Various marketing opportunities & production planning in vegetables	1	2	Off campus	17/10/22 to 18/10/22															30
39	Pisciculture	Fish disease management and control	1	1	Off campus	19/10/2022															30
40	Household food security by nutritional gardening	Benefits of Nutri-garden and Lay-outing of model nutri garden	1	1	Off campus	27/10/22															30
41	Household food security by nutritional gardening	Nutri-garden- Nutritional security of farm families	1	1	Off campus	31/10/22															30
42	IGA	Oyster mushroom production in threshed straw for income generation	1	2	Off campus	3/11/2022 & 4/11/22															30
43	ICM	Management of Bunch feeding in Banana	1	1	Off campus	10/11/22															30
44	IWM	Importance of weed management in Blackgram	2	2	Off campus	14 th and 19 th November 2022															30
45	Pisciculture	Application of CIFAX in ponds	1	2	Off campus	21/11/22															30
46	IGA	Rearing and brooding of backyard poultry	1	1	Off campus	28/11/22															30
47	Drudgery	Use agricultural implements for drudgery reduction of farm women	1	1	Off campus	9/12/2022															30

Sl no	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						
48	Marketing	Formation and management of Farmer Producer organizations	1	1	Off campus	12/12/22															30
49	INM	Weed Management in Groundnut	2	2	Off campus	12 th and 20 th December 2022															30
50	INM	INM in Groundnut	1	1	Off campus	26/12/22															30
51	INMM	INM in Brinjal	1	1	Off campus	28/12/22															30
52	INM	INM in Maize	1	1	Off campus	30/12/22															30
53	ICM	Scientific method of mustard cultivation	1	1	Off campus	4 th January 2022															30
54	Organic input Production	Recycling of homestead waste and agri-waste for composting	1	2	Off campus	5/1/2023															30
55	Pisciculture	Nutrient management in Fish Pond	1	1	Off campus	10/1/2023															30
56	Marketing	Formation of groups for aggregation and marketing of village produce	1	1	Off campus	25/1/2023															30
57	Production of Organic Inputs	Preparation of quality compost from agricultural wastes.	1	1	Off campus	10/2/2023															30
58	INM	Importance of summer ploughing for controlling weed and enrichment of soil	1	1	Off campus	27/2/2023															30
59	Storage	Grain pro super bag for safe storage of pulses	1	1	Off campus	28/2/2023															30

(b) Rural youths

Sl no	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							
1	Entrepreneurship development	Commercial mushroom production for sustainable enterprise	1	5	On campus	10/8/2022 to 14/8/2022																20
2	Entrepreneurship development	Fabrication of Aquarium and ornamental fish keeping	1	2	On campus	25/8/2022 to 26/8/2022																15
3	Entrepreneurship development	Vermiculture & Vermicomposting	1	5	On campus	7/9/2022 to 11/9/2022																15
4	Entrepreneurship	Button mushroom	1	3	On	28/9/2022 to																20

	development	cultivation			campus	30/9/2022											
5	Entrepreneurship development	Seed Production in Rice	1	3	On campus	14/10/2022 to 16/10/2022											20
6	Entrepreneurship development	Mushroom Production for doubling the Farmers income	1	3	On campus	14/11/2022 to 16/11/2022											20
7	Production of Organic Inputs	Techniques of Vermiculture & Vermicomposting	1	3	On campus	21/11/2022 to 23/11/2022											15
8	Marketing	Marketing and Management of farm producer group	1	4	Off campus	5/12/2022 to 8/12/2022											15
9	Enterpreunership Development	Production & Rearing of poultry	1	4	Off campus	13/12/22 to 16/12/2022											15
10	Organic Input production	Organic Farming	1	3	On campus	17/1/23 to 19/1/23											15
11	IGA	Value addition of Mushroom	1	3		26/12/22 to 28/12/22											15
12	Apiculture	Scientific rearing of honey bee	1	3	On campus	23/1/23 to 25/1/2023											15
13	Value addition	Value addition of millets	1	3	On campus	2/2/23 to 4/2/23											15

(c) Extension functionaries

Sl no	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			
1	INM	Recent advance in fertilizer mgt in field crops	1	2	On campus	12/9/2022 to 13/9/2022												15
2	ICT	Application of new media in extension	1	2	On campus	20/10/2022 to 21/10/2022												15
3	Leadership Development	Motivational and communication skills for extension personnel	1	2	On campus	17/11/2022 to 18/11/2022												16
4	Gender mainstreaming through SHG	Entrepreneurship development among farmwomen	1	2	On Campus	11/1/2023 to 12/1/2023												15
5	IPM	Prospect of	1	2	On	02-												15

		Annual planning of weed pest management			campus	03/02.2022										
6	INM	Soil related constraints & their amelioration for sustainable crop production	1	2	On campus	6/2/23 to 7/2/2023										15
7	Capacity building for ICT application	Recent advances in ICT used in Agriculture	1	2	On campus	13/2/23 to 14/2/2023										15

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

Farmers and Farm women

Thematic Area	No. of Courses	No. of Participants									Grand Total					
		SC			ST			Other			M	F	T			
		M	F	T	M	F	T	M	F	T						
I. Crop Production																
Weed Management	3															90
Resource Conservation Technologies																
Cropping Systems																
Crop Diversification	1															30
Integrated Farming																
Water management																
Seed production																
Nursery management																
Integrated Crop Management	5															150
Fodder production																
Production of organic inputs																
Others, (cultivation of crops)																
TOTAL																
II. Horticulture																
a) Vegetable Crops																
Integrated nutrient management																
Water management																
Enterprise development																
Skill development																
Yield increment																
Production of low volume and high value crops																
Off-season vegetables																
Nursery raising	2															60
Exotic vegetables like Broccoli																
Export potential vegetables																
Grading and standardization																
Protective cultivation (Green Houses, Shade Net etc.)																
Others, if any (Cultivation of Vegetable)																
TOTAL																

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		SC			ST			Other			M	F	T	
		M	F	T	M	F	T	M	F	T				
b) Fruits														
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														
c) Ornamental Plants														
Nursery Management														
Management of potted plants														
Export potential of ornamental plants														
Propagation techniques of Ornamental Plants														
Others, if any														
TOTAL														
d) Plantation crops														
Production and Management technology														
Processing and value addition														
Others, if any														
TOTAL														
e) Tuber crops														
Production and Management technology														
Processing and value addition														
Others, if any														
TOTAL														
f) Spices														
Production and Management technology														
Processing and value addition														
Others, if any														
TOTAL														
g) Medicinal and Aromatic Plants														
Nursery management														
Production and management technology														
Post harvest technology and value addition														
Others, if any														
TOTAL														
III. Soil Health and Fertility Management														
Soil fertility management														
Soil and Water Conservation														
Integrated Nutrient Management	10													300
Production and use of organic inputs	2													600
Management of Problematic soils	1													300

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		SC			ST			Other			M	F	T	
		M	F	T	M	F	T	M	F	T				
Micro nutrient deficiency in crops	1													30
Nutrient Use Efficiency														
Soil and Water Testing	1													30
Others, if any														
TOTAL														
IV. Livestock Production and Management														
Dairy Management														
Poultry Management														
Piggery Management														
Rabbit Management														
Disease Management														
Feed management														
Production of quality animal products														
Others, if any (Goat farming)														
TOTAL														
V. Home Science/Women empowerment														
Household food security by kitchen gardening and nutrition gardening	5													150
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	1													30
Enterprise development	1													30
Value addition														
Income generation activities for empowerment of rural Women	4													120
Location specific drudgery reduction technologies	2													60
Rural Crafts														
Capacity building														
Women and child care														
Others, if any														
TOTAL														
VI. Agril. Engineering														
Installation and maintenance of micro irrigation systems														
Use of Plastics in farming practices														
Production of small tools and implements														

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		SC			ST			Other			M	F	T	
		M	F	T	M	F	T	M	F	T				
Repair and maintenance of farm machinery and implements														
Small scale processing and value addition														
Post Harvest Technology														
Others, if any														
TOTAL														
VII. Plant Protection														
Integrated Pest Management														
Integrated Disease Management														
Bio-control of pests and diseases														
Production of bio control agents and bio pesticides														
Others, if any														
TOTAL														
VIII. Fisheries														
Integrated fish farming	7													210
Carp breeding and hatchery management														
Carp fry and fingerling rearing														
Composite fish culture & fish disease														
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond														
Hatchery management and culture of freshwater prawn														
Breeding and culture of ornamental fishes														
Portable plastic carp hatchery														
Pen culture of fish and prawn														
Shrimp farming														
Edible oyster farming														
Pearl culture														
Fish processing and value addition														
Others, if any														
TOTAL														
IX. Production of Inputs at site														
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														
TOTAL														
X. Capacity Building and Group														

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs	2												60
Mobilization of social capital	4												120
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL													

Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom Production	4												60
Bee-keeping	1												15
Integrated farming													
Seed production													
Production of organic inputs	1												15
Planting material production													
Vermi-culture	2												30
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		SC			ST			Other			M	F	T	
		M	F	T	M	F	T	M	F	T				
Piggery														
Rabbit farming														
Poultry production	1													15
Ornamental fisheries														
Para vets														
Para extension workers														
Composite fish culture	1													15
Freshwater prawn culture														
Shrimp farming														
Pearl culture														
Cold water fisheries														
Fish harvest and processing technology														
Fry and fingerling rearing														
Small scale processing														
Post Harvest Technology (Value Addition)	1													15
Tailoring and Stitching														
Rural Crafts														
Enterprise development	1													15
Others if any (Weed management)	1													15
TOTAL														

Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		SC			ST			Other			M	F	T	
		M	F	T	M	F	T	M	F	T				
Productivity enhancement in field crops														
Integrated Pest Management														
Integrated Nutrient management	2													30
Rejuvenation of old orchards														
Value addition														
Protected cultivation technology														
Formation and Management of SHGs	1													15
Group Dynamics and farmers organization														
Information networking among farmers	1													15
Capacity building for ICT application	3													45

Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security	1												15
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs	1												15
Crop intensification													
Others if any													
TOTAL													

Frontline demonstration to be conducted*

FLD No:- 1 **Demonstration on weed management in Blackgram**
Crop: Blackgram
Problem: Low yield due to high weed infestation
Thrust Area: IWM
Thematic Area: Weed management
Season: Rabi 2021-22
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	Blackgram	2.0	Post emergence application of Quizalofop ethyl 5 EC @ 50 ml/ha at 20-25 DAS	Weed Density/m ² , Weed control efficiency, Yield (q/ha), B:C ratio	Quizalofop ethyl 5 EC																10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Date	Venue On/Off	No. of Participants															
							SC		ST		Other		Total									
							M	F	M	F	M	F	M	F	T							
Training	Importance of weed management in Blackgram for higher production	1	F/FW	2	4 th wk of November	Off																30
Field Day	Weed management in Blackgram	1	F/FW	1	2 nd wk of Nov	2 nd wk of Nov																50
Method demonstration	Line showing	1	F/FW	1	1 st wk November	Off																25
	Application of herbicides	1	F/FW	1	4 th wk of January	Off																25

FLD No-: 2 **Demonstration on Maize variety Kalinga Raj (TSP)**
Crop: Maize
Problem: Low yield due to use of local variety
Thrust Area: Varietal Substitution
Thematic Area: Production Technology
Season: Kharif -2022
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	Maize	2.0	Demonstration on Hybrid Maize variety Kalinga Raj with Line sowing and RDF (120:60:60)	No of seeds/cob, Yield(q/ha), Economics	Seed var. Kalinga Raj																10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Date	Venue On/Off	No. of Participants															
							SC		ST		Other		Total									
							M	F	M	F	M	F	M	F	T							
Training	Package & practices for maize cultivation	1	F/FW	2	2 ND week of June	Off																30
Field Day	Production of maize	1	F/FW	1	1 ST Week of October	2 nd wk of Nov																50
Method demonstration	Line showing, INM	1	F/FW	1	2 nd week of July	Off																25

FLD No. -3: **Demonstration of Weed Management in Groundnut**
Crop: Groundnut
Problem: Lower yield due to higher weed infestation
Thrust Area: IWM
Thematic Area: IWM
Season: Rabi, 2022-23
Farming Situation: Irrigated medium land, Rice –Vegetable/Groundnut

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				
	Groundnut	2 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	Pod weight/plant, No of filled pod per plant, Weed control efficiency , Yield (q/ha), B.C. Ratio																10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	Date	No. of Participants														
							SC		ST		Other		Total								
							M	F	M	F	M	F	M	F	T						
Training	IWM In Groundnut	1	FW	1	Off	2 nd week October															30
Method Demo	Application of Herbicides	1	FW	1	Off campus	2 nd week October															30
Field Day	IWM in Groundnut			1	Off campus	Dec 4 th week															40

FLD No. -5 : **Demonstration of INM in Brinjal**
Crop: Brinjal
Problem: Low yield due to poor nutrient management in brinjal
Thrust Area: INM
Thematic Area: INM
Season : Rabi, 2022-23
Farming Situation : Irrigated medium land, Rice -Vegetable

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	De mo	Local	SC		ST		Other		Total					
								M	F	M	F	M	F	M	F	T			
	Brinjal	0.4 ha (10 Nos)	Application of 75% of STBFR Fertilizer N + 100% fertilizer P & K + FYM @ 2t/ha + Bioinoculation of Azotobacter 4kg/ ha +Azospirillum 4 kg/ ha with 200kg prelied FYM (Lime 10kg) incubated for 7 days at 30% moisture & applied in rhizosphere at the time of planting	Fruit weight, No. of fruits per plant, Yield (q/ha), B.C. Ratio	Azotobacter + Azospirillum with prelied FYM														10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	Date	No. of Participants												
							SC		ST		Other		Total						
							M	F	M	F	M	F	M	F	T				
Training	INM in Brinjal	1	FW	1	Off	2 nd week October													30
Method Demo	Application of Fertilisers	1	FW	1	Off campus	2 nd week October													30
Pamphlet	Baigan phasal re sara parichalana	1				October													500
Field Day	INM in Brinjal			1	Off campus	Dec 4 th week													40

FLD No. -6 : Demonstration of Bunch feeding in banana for yield enhancement
Crop: Banana
Problem: Low yield of banana due to small bunch size
Thrust Area: INM
Thematic Area: INM
Season : Rabi, 2022-23
Farming Situation : Irrigated medium land, Rice -Vegetable

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					
	Banana	0.8 ha (10 Nos)	Blending 15g (7.5g Urea & 7.5g of sulphate of potash) dissolved in 100ml water in 500g of fresh cow dung & applying the slurry to the de-navelled stalk end soon after fruit set	Bunch weight, Finger size(wt), Pulp: Peel ratio, days to maturity	Urea+ Sulphate of Potash+ fresh cowdung																10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	Date	No. of Participants															
							SC		ST		Other		Total									
							M	F	M	F	M	F	M	F	T							
Training	Bunch feeding in Banana	1	FW	1	Off	2 nd week October																30
Method Demo	Preparation and application of bunch feed	1	FW	1	Off campus	2 nd week October																30
Pamphlet	Kadalichasareamalabrudhiraprayog	1				October																500
Field Day	Bunch feeding of banana			1	Off campus	Dec 4 th week																40

FLD No. -7 : Demonstration on potassium and zinc application for management of iron toxicity in rice.
Crop: Rice
Problem: Low yield of Rice due to nonapplication of micronutrients
Thrust Area: INM
Thematic Area: INM
Season : Kharif 2022
Farming Situation : Rice -Fallow

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			
	Rice	4.0 ha (10 Nos)	Application of 25 kg ZnSO ₄ /ha and top dressing of MOP@30kg/ha after drainage of water.	No. of tillers/hill, No. of affected hills/Sq.mtr, Yield (q/ha), B.C. Ratio	Zinc Sulphate, MOP														10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	Date	No. of Participants															
							SC		ST		Other		Total									
							M	F	M	F	M	F	M	F	T							
Training	INM	1	FW	1	Off	2 nd week June															30	
Method Demo	Preparation and application of bunch feed	1	FW	1	Off campus	2 nd week Juner																30
Pamphlet	Kadalichasareamalabrudhiraprayog	1				July																500
Field Day	Bunch feeding of banana			1	Off campus	October 4 th wk																40

FLD-8 :Demonstration of Floating fish feed in composite fish culture for growth enhancement

Crop: Fish
Problem: Improper Feed management
Thrust Area: fish production
Thematic Area: Integrated fish farming
Season: Round the year-2022
Farming Situation: pond based

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	5	Feeding of fish with floating fish feed instead of GNOC & Rice bran(1:1)	Yield(t/ha)pH,Av g. wt (gm) Average feed consumedkg/day	Floating fish feed														5

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	Pre-and post stocking management in fish pond , Feed management													30
Publication	pamphlet preparation	500	FW											
Field day														

FLD-9: Demonstration on IMC yearling production in seasonal ponds

Crop: Fish
Problem: Improper stock Management
Thrust Area: fish production
Thematic Area: Integrated fish farming
Season: Round the year-2022
Farming Situation: pond based

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	5	Indian Major Carp yearling production in seasonal pond. Feeding with mixture of mustard oil cake, de-oiled rice bran(1:1) and vitamin-mineral premix @ 10% of the biomass during 1st month, 8% of the biomass during 2nd month and 6% of the biomass during 3rd month. Period of culture 3 months with a harvestable size of 60 to 80 mm size with a mean survivvility as high as 52%.	Yield(t/ha)pH, Avg. wt (gm) Average feed consumedkg/day	Fish seed, mustard oil cake, de-oiled rice bran														5

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants				Other		Total		T
						SC		ST		M	F	M	F	
						M	F	M	F					
Training	Pre-and post stocking management in fish pond , Feed management												30	
Publication	pamphlet preparation	500	FW											
Field day														

FLD-10 **Demonstration on IMC yearling production in seasonal ponds**
Crop: Fish
Problem: Low yield due to no or improper feed management in ponds
Thrust Area: fish production
Thematic Area: Integrated fish farming
Season: Round the year-2022
Farming Situation: pond based

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) relation in 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	5	Use of fermented agro products for enhancing zooplankton production in fish nurseries. • Application of 48 hr. fermented mustard oil cake (10kg), de-oiled rice bran(10kg) and molasses(1kg) per 0.4 ha area/week enhances the zooplankton production. • Stocked fry fed with mixture of mustard oil cake, de-oiled rice bran(1:1) and vitamin-mineral premix @ 600g/lakh of spawn for first five days and 1200 g/lakh of spawn for subsequent days till harvest of fry	Plankton density/50L, Yield (t/ha) B:C Ratio	Zooplankton, mustard oil cake, molasses														5

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants				Other		Total		T
						SC		ST		M	F	M	F	
						M	F	M	F					
Training	Pre-and post stocking management in fish pond , Feed management												30	
Publication	pamphlet preparation	500	FW											
Field day														

FLD-11 Nutritional Garden for nutritional security of farm families (TSP)
Crop: Vegetables
Problem Malnourishment in farm families due to inadequate availability of vegetable round the year
 Poor adoption of nutritional garden interventions
Thrust Area: Nutritional Security
Thematic Area: Nutritional Security
Season: Round the year 2022
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	
1	Vegetables	0.02 (10)	Nutritional garden with Protein, Vitamin & iron rich vegetables and fruits	Consumption of vegetables/day/Kg Availability of vegetable/day/Kg Cost of input(Rs)mean increase in consumption of vegetables and fruits compared to RDA (%) Additional IncomeRs	Seedlings(Papaya, drum stick, solanaceous veg, tuber crops), Seeds(Leafy veg), Pro Trey, Vermi tank and Rope												20

Extension and Training activities under FLD:

Activity	Title of Activity	No	Clientele	Duration	Venue On/Off	No. of Participants											
						SC		ST		Other		Total					
						M	F	M	F	M	F	M	F	T			
Training	Nursery raising of vegetables under low cost tunnel and pro-tray	2	F&FW	2	Off												30
	Layout of backyard garden	2	F&FW	1	Off												30
	Scope and importance of a nutritional garden in backyard	2	F&FW	1	Off												
	Preparation of Nutritional garden in Backyard	2	F&FW	1	Off												
	Recycling of homestead waste and agri-waste for composting	2	F&FW	1	Off												30
	Field day on Nutritional garden	1	F&FW	1	Off												40
	Distribution of leaflet and publication of news article / radiotalk/ short video	1	F&FW	1	Off												40

FLD-12 **Demonstration on Production of paddy straw mushroom in threshed straw for income generation**
Crop: Mushroom
Problem: Non utilization of crumpled paddy straw after threshing in bullock cart/tractor/ combined harvester
Thrust Area: IGA
Thematic Area: Mushroom production
Season: Kharif- 2022
Farming Situation: Homestead/ 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				
	Paddy straw Mushroom	4 units 10bed/unit	Mushroom cultivation by using 5kg crumpled straw, pulse powder3%, spawn-3% soaking period 5 hrs with 2% CaCO3	Pin head initiation (Days), spawn run period(days),budwt in gm, BE(%),Yield, net income, BC ratio	Spawn, Straw, Pulse powder and polythene	660/unit	300/unit													30

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							
Training1	Production of paddy straw mushroom for income generation	2	F&FW	2	Off															30
	Post harvest management of paddy straw mushroom bed	2	F&FW	1	Off															30
Field day	Production of paddy straw	1	F&FW	1	Off															40

FLD- 13 **Demonstration on management of competitive fungus (Coprinus/Inkcaps) in paddy straw mushroom bed in Kharif**
Crop: Mushroom
Problem Low yield and less income from paddy straw mushroom bed due to lack of competency on management of competitive fungus (Coprinus/Inkcaps)
Thrust Area: Mushroom Production
Thematic Area: Production Technology
Season: Kharif 2022
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	10	Presoaking of straw by application of 2% calcium carbonate for 6 hours, dipping the polythene and wiping the rack with calcium carbonate for management of inkcap	Infestation of inkcaps (%), BE(%), Net Income, B:C ratio	Spawn, Calcium carbonate														

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	Production technology of paddy straw mushroom	1	F/FW	1															
Field day	Different method of pasteurization of straw for controlling of Inkcaps in paddy straw mushroom bed	1	F&FW, RY, Line dept.officers																
Booklet	Production technology of paddy straw mushroom	200	F&FW, RY																

FLD No 14 **Demonstration on oyster mushroom (Hyspizygusulmarius) for income generation(TSP)**
Crop: Mushroom
Problem Low yield of oyster mushroom Pleurotussajorcaju at low temperature(December-February)
Thrust Area: IGA
Thematic Area: Mushroom production
Season: Rabi-2022
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			
	Oyster Mushroom	20 nos 10beds/unit	Cultivation of oyster mushroom variety Hyspizygusulmarius Biological efficiency- 92.5% in 180-300Straw cutting 2-3inches, soaking of straw in water for 6hrs in 2% CaCo3, draining of straw (moisture content 65%), Spawn -150gm	Pinhead appearance(days)Biological Efficiency (%),Yield (Kg/bag)Net Income (Rs), B: C ratio	Spawn, Straw, and polythene bag	700/unit	nil												

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					
Training1	Production of Oyster mushroom for income generation	2	F&FW	2	Off														
	Post harvest management of Oyster mushroom bed	2	F&FW	1	Off														
Field day & Book distribution	Production of Oyster mushroom	1	F&FW	1	Off														40

FLD-15 **Demonstration on low-cost portable poly tunnel for seedling raising under TSP**
Crop: Vegetables
Problem Low production due to use local seed in open condition
Thrust Area: Production Technology
Thematic Area: IGA
Season: Kharif-2022
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		
1		10	Low-cost poly tunnel made up of Bamboo, PVC pipe installed in a raised bed, soil solarization, seed treatment practices ensure production of Healthy seedling, Expected yield.	% of seedling survival, seed germination %, Number of days required from seed sowing to transplanting (days),B:C ratio,Net profit	Iron polytunnel, Seed packet													

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants												
						SC		ST		Other		Total						
						M	F	M	F	M	F	M	F	T				
Training	Scientific method of nursery raising under low-cost polytunnel	1	F7FW	1	Off													30
Demonstration	Method demonstration on Nursery bed preparation	10	F&FW	2	off													30
Field day	Nursery raising in Polytunnel	1	F&FW, RY & Line deptt	1	off													40
Leaflet	Scientific method of nursery raising under low-cost polytunnel	1	All	Oct-2022														500

FLD No – 16 **Demonstration on rearing of honey bee under TSP**
Crop: Honeybee
Thrust Area: IGA
Thematic Area: Production of Bee-colonies
Season: Rabi 2022
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				
	Honeybee	10	Regular and periodic bottom board cleaning, maintaining healthy and populous colony ,regular and periodic dearth feeding, removal of old combs and allowing new comb construction, need-based brood comb alteration and need based colony union or division are recommended for scientific beekeeping with <i>Apis-cerana indica</i> .		Bee Hive box, with colony, Smoker, Mask, Honey extractor, brush, and other ne	5000 x														10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	Date	No. of Participants														
							SC		ST		Other		Total								
							M	F	M	F	M	F	M	F	T						
Training	Skill training on Bee-Keeping and rearing (TSP)	1	Rural Youth	5days	On	Jan 1 st week															25
Method Demo	Installation of honey bee box	10	RY	1	Off	Nov 3 rd week															25
Manual	BaigyanakapadhhatireMahumachhi Chas	1	F&FW, RY			4 th wk of October															500
Field Day	Colony division in honey bee boxes	2	F&FW, RY	2	on	Feb1st week 2021															40

FLD – 17

Demonstration on Production of vermicompost for income generation under TSP

Crop: Vermicompost
Thrust Area: Organic Farming
Thematic Area: Vermicomposting
Season: Kharif-2022
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	Loca l	SC		ST		Othe r		Total										
								M	F	M	F	M	F	M	F	T								
	Vermicompost	10	Demonstration of Vermicomposting, Recommended layer so for organic waste and cow dung in vermitank(using 4'diacementring. Release of earthworm @50nos/kg of organic waste.	Yield /tank (Kg) Net Income, B.C ratio	Earth-worm RCC Rings																			30

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	Date	No. of Participants																	
							SC		ST		Other		Total											
							M	F	M	F	M	F	M	F	T									
Training	Scientific method of vermicompost production	1	F/FW	5	Off	Sept 1 st wk																		25
Training	Commercial vermicompost production	1	RY	5	On	Nov 2 nd wk																		15
Method Demo	Preparation of compost pit, collection of bi-products for decomposition	1	F/FW	5	Off	Sept 1 st - 3 rd wk																		25
Pamphlet	Jia khatachasa	500	F/FW	1		Sept 1 st wk																		500
Field Day		1				Feb 2 nd wk																		250

FLD – 18

Demonstration on effectiveness of short technology videos on technology adoption for Integrated weed management and Nutrient management in Rice

Crop:

Rice

Problem

Less efficacy of existing dissemination modes i.e. text messages/verbal advisory

Thrust Area:

Short Video preparation

Thematic Area:

ICT

Season:

Kharif-2022

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						
	Rice	20	Preparation of small videos (1.5-2.0 minutes) on different activities of production process of selected commodities and the same will be sent through WhatsApp to the identified farmers. Production packages of prioritized commodities will be divided into different segments and short videos will be prepared and disseminated through WhatsApp at appropriate time.	Visually engaging/Informative and timeliness -Understanding the method and process depicted in the video -Retention, retrieval & re-use of the content																		30

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	Date	No. of Participants															
							SC		ST		Other		Total									
							M	F	M	F	M	F	M	F	T							
Training	Use of ICT in Agriculture	1	F/FW	2	Off	August 2 nd wk																30
Method Demo	Preparation of short videos	1	F/FW	2	Off	August & September																30

FLD – 19

Demonstration on Production of vermicompost for income generation under TSP

Crop: Turmeric
Problem: Low yield of local desi turmeric variety
Thrust Area: Varietal Trial
Thematic Area: Production technology
Season: Kharif-2022
Farming Situation: Backyard/rainfed Meduim land/ intercropping in mango

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				
	Turmeric	1	Application turmeric cv. Roma with application of bio-fertilizer Azospirillum @ 10 kg/ha + Vermicompost @ 5.0 t/ha + FYM @ 5.0 t/ha	Rhizome weight (in g), Yield , B:C Ratio, Feedback of the farmer	Turmeric															30

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	Date	No. of Participants													
							SC		ST		Other		Total							
							M	F	M	F	M	F	M	F	T					
Training	Package of Practices of Turmeric cultivation	1	F/FW	1	Off	June														30
Method Demo	Seed treatment and Planting of turmeric	1	F/FW	1	Off	May														30
Pamphlet	Package of Practices of Turmeric cultivation	500	F/FW	1		Nov														500
Field Day		1				Dec														50

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

Name of the Crop / Enterprise	Variety / Type	Period April 2022- March 2023	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Rice	Pratikshya	June to Dec 2022	1.5	FS	43.0			
Mushroom Spawn (Paddy straw)	Volvariellavolva ceae	May to Oct 2022			3000 nos			
Mushroom Spawn(Oyster)	H. umarius, P. sajorcaju	Oct to Feb 2022			3000 nos			
Vermiculture	Eisenia foetida	Round the year			50kg			
Vegetable Seedlings/ Saplings	Papaya, Drumstick, Different flowers and seasonal vegetables	Round the year	0.009	Seedlings	1,00,000nos			
Vermicompost		Round the year	0.0134	Compost	100			
Mushroom	Paddy straw/Oyster	Round the year	0.01		50kg			
Poultry	Kadaknath, Aseel	Round the year	0.020	Brooded chick	2400			

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.)

5. Extension Activities

Sl. No.	Activities/ Sub-activities	No. of activities proposed	Farmers				Extension Officials			Total		
			M	F	T	SC/ ST (% of total)	M	F	T	M	F	T
1.	Field Day	12										
2.	KisanMela	2										
3.	KisanGhoshi	2										
4.	Exhibition	2										
5.	Film Show	18										
6.	Method Demonstrations	6										
7.	Farmers Seminar	2										
8.	Workshop	2										
9.	Group meetings	15										
10.	Lectures delivered as resource persons	18										
11.	Advisory Services	48										
12.	Scientific visit to farmers field	146										
13.	Farmers visit to KVK	0										
14.	Diagnostic visits	28										
15.	Exposure visits	4										
16.	Ex-trainees Sammelan	4										
17.	Soil health Camp	2										
18.	Animal Health Camp	6										
19.	Agri mobile clinic	6										
20.	Soil test campaigns	2										
21.	Farm Science Club Conveners meet	2										

22.	Self Help Group Conveners meetings	2										
23.	MahilaMandals Conveners meetings	2										
24.	Celebration of important days (specify)	5										
25.	Sankalp Se Siddhi	1										
26.	Swatchta Hi Sewa	12										
27.	MahilaKisanDiwas	1										
28.	Any Other (Specify) Farmer Day (Akshay Tritiya)	1										
	Total	351										

6. Revolving Fund (in Rs.)

Opening balance of 2021-2022 (As on 01.04.2021)	Amount proposed to be invested during 2022-2023	Expected Return
4,64,412	4.0	6.0

7. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)	Proposed purpose of utilization (in brief)
Hi-tech Nursery & Pond based IFS unit at KVK	DMF, Sundargarh	98.20	Development of Hi-tech Nursery & Pond based IFS unit at KVK
OMBADC	Govt. of Odisha	900	Building of Capacity, Experimental Models & Infrastructure (B-CEMI) through OUAT Institutions in the Mineral Bearing Districts of Odisha

8. On-farm trials to be conducted in 2022

OFT No.-1: Assessment of herbicides for weed management in transplanted rice

i.	Season:	: Kharif 2022 (2 nd year)
ii.	Title of the OFT:	: Assessment of herbicides for weed management in transplanted rice
iii.	Thematic Area:	: Weed Management
iv.	Problem diagnosed:	: Loss of yield
v.	Important Cause:	: Low yield due to high weed infestation and high cost due to manual weeding
vi.	Production system:	: Rice- Greengram
vii.	Micro farming system:	: Rainfed-Medium land
viii.	Technology for Testing:	: Introduction of some new herbicides
ix.	Existing Practice:	: Hand weeding at 30 & 50 DAT
x.	Hypothesis:	: Spraying of Herbicides like Bispyribac sodium / Almix 20 WP helps the farmers to reduce weed population bellow ETL & at the same time helps to increase the yield of Rice
xi.	Objective(s):	: To evaluate suitable Rice herbicides
xii.	Treatments:	:
	Farmers Practice (FP)	: Hand weeding at 30 & 50 DAT
	Technology option-I(TO-I)	: Application of cyzalofof butyl + penoxulam @135g/ha at 20DAT
	Technology option-II (TO-II)	: Application of PE pendimethalin @0.75kg/ha, fb chlorimuron ethyl + metasulfuron methyl @ 4 g/ha @20DAT
xiii.	Critical Inputs:	: Cyzalofof butyl+ Penoxulam, Pendimethalin&Almix
xiv.	Unit Size:	: 2 ha
xv.	No of Replications:	: 07
xvi.	Unit Cost:	: 1500/-
xvii.	Total Cost:	: 10500/-
xviii.	Monitoring Indicator:	: Weed Count/m ² , No. effective tillers/hill, Panicle length, No. of grains/panicle, Test weight WCE(%), Yield(q/ha), Economics
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	: OUAT, Annual report,2015, OUAT, Annual report, 2020
xx.	Associated Scientists	: SMS(Agronomy), Scientist(Soil Science)

OFT No-2: Assessment of Decomposer for in-situ residue management in Rice

i.	Season:	: Pre-rabi 2022-23
ii.	Title of the OFT:	: Assessment of Decomposer for in-situ residue management in Rice
iii.	Thematic Area:	: ICM
iv.	Problem diagnosed:	: Residue burning causes environmental pollution as well as decreasing soil microbial properties.
v.	Important Cause:	:
vi.	Production system:	: Rice –Greengram/Blackgram
vii.	Micro farming system:	: Rainfed medium land
viii.	Technology for Testing:	: PUSA and NRRI paddy straw decomposer
ix.	Existing Practice:	: Harvesting of rice in combine harvester and burning of residue in the field.
x.	Hypothesis:	: NRRI microbial consortium containing Three microbial strains <i>Aspergillus awamori</i> (NRRICPD- COMF5), <i>Trichoderma viridi</i> (NRRI-CPD-COMF6) and <i>Streptomyces sp</i> (NRRI-CPD-COMA4) decomposes within 45 days of application. PUSA decomposer is a mix of seven fungi strains that produce enzymes to digest cellulose, lignin and pectin in paddy straw. It decomposes within 30 days of application.
xi.	Objective(s):	: • To find out suitable paddy straw decomposer
xii.	Treatments:	:
	Farmers Practice (FP)	: Harvesting of rice in combine harvester and burning of residue in the field.
	Technology option-I(TO-I)	: NRRI decomposer @ 10 capsules in 100lit of water with 2 % jaggery solution for 1 ha.
	Technology option-II (TO-II)	: PUSA decomposer @ 4 capsules in 25 lit of water with 2 % jaggery solution and pulse powder for 1 ha.
xiii.	Critical Inputs:	: NRRI and PUSA decomposer capsules
xiv.	Unit Size:	: 1 ha
xv.	No of Replications:	: 7
xvi.	Unit Cost:	: Rs.500
xvii.	Total Cost:	: Rs 3500
xviii.	Monitoring Indicator:	: Period of decomposition, Rate of decomposition, Cost of Intervention. Soil organic matter content(Before and After), Ease of cultivation (1-5 Scale), Yield of Greengram
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	: ICAR-NRRI, 2021, ICAR- IARI, 2020
xx.	Scientists involved	: SMS(Agronomy), Scientist (Soil Science)

OFT No-3 Assessment of nano urea liquid fertilizer in transplanted rice

i.	Season:	: Kharif 2022
ii.	Title of the OFT:	: Assessment of nano urea liquid fertilizer in transplanted rice
iii.	Thematic Area:	: INM
iv.	Problem diagnosed:	: Low yield due to Improper use of urea fertilizer
v.	Important Cause:	: Due to increased soil acidity through continuous urea application, and loss of applied urea through leaching and volatilization.
vi.	Production system:	: Rice- Greengram
vii.	Micro farming system:	: Rainfed-Medium land
viii.	Technology for Testing:	: Nano urea spaying in Transplanted paddy
ix.	Existing Practice:	: Soil application of prilled urea at the time of Transplanting, tillering and PI stages
x.	Hypothesis:	: Nano urea liquid fertilizer will increase the nitrogen use efficiency and extent to saving 50 % of nitrogen.
xi.	Objective(s):	: To increase the efficiency of urea through foliar application.
xii.	Treatments:	:
	Farmers Practice (FP)	: Application of N:P: K(80:40:40) kg/ha
	Technology option-I(TO-I)	: 50 % recommended N + 100 % P and K as basal application and two sprays Nano urea @ 0.2 % tillering and PI stage
	Technology option-II (TO-II)	: 75 % recommended N + 100 % P and K as basal application and two sprays Nano urea @ 0.2% at tillering and PI stage
xiii.	Critical Inputs:	: Nano Nitrogen (40000ppm)
xiv.	Unit Size:	: 2 ha
xv.	No of Replications:	: 7
xvi.	Unit Cost:	: 1000
xvii.	Total Cost:	: 7000
xviii.	Monitoring Indicator:	: Initial and post harvest soil test value No. of effective tillers /sq m, No. of filled grain per panicle, 1000 grain weight (gm), Yield (q/ha) , Economics
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	: Annual Report (IFFCO Project) 2020-21, AAU, Annual report 2019-20
xx.	Scientists Involved	: Scientist(Soil Science), SMS(Agronomy)

OFT No-4 Assessment of PSB and VAM in Groundnut

i.	Season:	: Rabi 2022-23
ii.	Title of the OFT:	: Assessment of PSB and VAM on Groundnut
iii.	Thematic Area:	: INM
iv.	Problem diagnosed:	: Low yield of groundnut due to poor nutrient management and water stress Low phosphorous availability due to fixation in acid soil.
v.	Important Cause:	: Low phosphorous availability due to fixation in acid soil
vi.	Production system:	: Rice- Groundnut
vii.	Micro farming system:	: Irrigated-Medium land
viii.	Technology for Testing:	: Assessment of biofertilizers in Groundnut
ix.	Existing Practice:	: Application of N-P ₂ O ₅ -K ₂ O @ 20-40-20 kg/ha
x.	Hypothesis:	: PSB helps in better solubilization of fixed phosphorous and VAM helps in better nutrient and water availability.
xi.	Objective(s):	: To increase the yield of Groundnut through INM
xii.	Treatments:	:
	Farmers Practice (FP)	: Application of N-P ₂ O ₅ -K ₂ O @ 20-40-20 kg/ha
	Technology option-I(TO-I)	: STBF + 0.2 LR Lime + Rhizobium @ 50g/kg of seed +PSB @ 5kg/ha
	Technology option-II (TO-II)	: STBF + 0.2 LR Lime + Rhizobium @ 50g/kg of seed +PSB @ 5kg/ha + VAM @5kg/ha
xiii.	Critical Inputs:	: PSB, VAM, Rhizobium, Lime
xiv.	Unit Size:	: 2 ha
xv.	No of Replications:	: 7
xvi.	Unit Cost:	: 2000
xvii.	Total Cost:	: 14000
xviii.	Monitoring Indicator:	: No. of nodules / plant, No. of pods / plant, Pod yield, B:C Ratio
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	: AINP on Soil Biodiversity and Biofertilizers, 2010
xx.	Scientists Involved	: Scientist(Soil Science), SMS(Agronomy)

OFT No 5.-: Assessment of the improved techniques for cultivation of Paddy straw mushroom (Volvariellavolvacea) using crumpled straw for yield enhancement

i.	Season:	:	Kharif 2022
ii.	Title of the OFT:	:	Assessment of the improved techniques for cultivation of Paddy straw mushroom (Volvariellavolvacea) using crumpled straw for yield enhancement
iii.	Thematic Area:	:	Production Technology
iv.	Problem diagnosed:	:	Low yield from Paddy straw Mushroom from crumpled straw
v.	Important Cause:	:	Improper use of paddy straw
vi.	Production system:	:	Backyard
vii.	Micro farming system:	:	Backyard
viii.	Technology for Testing:	:	
ix.	Existing Practice:	:	
x.	Hypothesis:	:	T O1 –Seeding the beds with 14- 20 days old spawn with well developed chlamydospores contributed for significantly higher yields, Biological Efficiency- 12 -15% T O2 – Seeding the beds with 14- 20 days old spawn contributed for significantly higher yields, Homogenous moisture level and bed temperature between layers leads to more pin heads and buttons with increase in yield, Biological Efficiency- 18-20%
xi.	Objective(s):	:	To assess the suitable improved technology for cultivation of paddy straw using threshed straw for yield enhancement
xii.	Treatments:	:	
	Farmers Practice (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%
	Technology option-I(TO-I)	:	Square compact bed size (30 × 30 cm),Mushroom production by using crumpled paddy straw 5kg, soaking of straw in water for 5hrs in 2% CaCo ₃ , 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 ₃ , 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:	:	Straw, Spawn, Pulse powder, CaCo ₃
xiv.	Unit Size:	:	10+10
xv.	No of Replications:	:	7
xvi.	Unit Cost:	:	1400
xvii.	Total Cost:	:	9800
xviii.	Monitoring Indicator:	:	Average weight/button (g),Pin head appearance (days), Biological efficiency (%),Yield (Kg/bed), B:C ratio
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	:	Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore-2012
xx.	Scientists Involved	:	Scientist (Home Science) and Scientist (Ag. Extn)

OFT No.6: Assessment of the performance of FPOs with varied levels of task and commodity to enhance income (1st Year)

i.	Season:	: Karif/Rabi/Zaid-Summer 2022
ii.	Title of the OFT:	: Assessment of the performance of FPOs with varied levels of task and commodity to enhance income (1st Year)
iii.	Thematic Area:	: Market aggregation
iv.	Problem diagnosed:	: Unorganized farmers fetching low price due to distress sale of farm produce
v.	Important Cause:	: Distress sale of farm produce and low price realisation
vi.	Production system:	: Vegetable-vegetable-vegetable, Rice-pulses
vii.	Micro farming system:	: Irrigated, Rainfed
viii.	Technology for Testing:	:
ix.	Existing Practice:	:
x.	Hypothesis:	: FP: Farmers marketing their produce through intermediaries- Middle Man, Local Traders, Outside Traders TO1: Farmers dealing with a single commodity through collective marketing with a single/number of agencies TO2: Farmers dealing with a single commodity with multiple tasks like sorting, grading, packing and marketing with one or various agencies TO3: Farmers dealing with multi-components like pulse/vegetables/enterprises with a single task like marketing of produce TO4: Farmers dealing with multi-components like pulse/vegetables/enterprises with multi-tasks like sorting, grading, packing and marketing
xi.	Objective(s):	: To assess the most profitable marketing channel by which the FPO can sustain
xii.	Treatments:	:
xiii.	Farmers Practice (FP)	: Farmers marketing their produce through intermediaries
xiv.	Technology option-I (TO-I)	: FPO dealing with a single commodity with a single task i.e., Vegetable-Marketing
xv.	Technology option-II (TO-II)	: FPO dealing with single commodity with multi-task i.e., Vegetable- sorting, grading, packing, branding and marketing
	Technology option-I (TO-III)	FPO dealing with multi-commodity with single task i.e., Pulses, Vegetable, Enterprises-Marketing
	Technology option-II (TO-IV)	FPO dealing with multi-commodity with multi-task i.e., Pulses, Crops Vegetable, Enterprises- sorting, grading, packing, value addition, branding, leveling and marketing
xvi.	Critical Inputs:	:
xvii.	Unit Size:	: 4 FPOs
xviii.	No of Replications:	: 1
xx.	Unit Cost:	: 1000
xi.	Total Cost:	: 1000
xii.	Monitoring Indicator:	: Easy to produce (Score out of 10) Easy to sell (Score out of 10) Farmers interest to become a member (Score out of 10) Business planning and market linkage with various national and international companies (Score out of 10) Share capital contributed (Score out of 10) Total share capital deposited in the bank

	No of FIGs No of members Meeting status Type of commodity Volume of commodity Annual turnover Annual profit
xiii.	Source of Technology : (ICAR/ AICRP/ SAU/ Other, please specify):
	Scientists Involved : David James Bage, Scientist (Agril. Extension), Dr. Manoj Kumar Jena, Scientist (Soil Science)

OFT No. 7: Impact assessment of Cluster Frontline Demonstration programme (1st Year)

i.	Season: : Rabi 2022-23
ii.	Title of the OFT: : Impact assessment of Cluster Frontline Demonstration programme (1st Year)
iii.	Thematic Area: :
iv.	Problem diagnosed: :
v.	Important Cause: :
vi.	Production system: : Groundnut
vii.	Micro farming system: : Irrigated/Rainfed, medium land, upland
viii.	Technology for Testing: :
ix.	Existing Practice: :
x.	Hypothesis: : TO1: Distribute seed, micro nutrient, seed treatment chemical, pesticides and organizing field days at different stages of crop growth and covering atleast 10 ha to maximum 90 ha area TO2: Distribute seed and providing money for other critical inputs, one field day at the time of harvesting of crop and covering atleast 50 ha to maximum 1000 ha area
xi.	Objective(s): : To assess the suitable demonstration
xii.	Treatments: :
xiii.	Farmers Practice (FP) : Technology available with farmers
xiv.	Technology option-I (TO-I) : Technology provided under CFLD through Krishi Vigyan Kendra
xv.	Technology option-II (TO-II) : Technology provided by Cluster programme of Agriculture dept
xvi.	Critical Inputs: :
xvii.	Unit Size: :
xviii.	No of Replications: : 30
xx.	Unit Cost: : 2000
xi.	Total Cost: : 2000
xii.	Monitoring Indicator: : Availability of technology, applicability of technology, accessibility of technology, Crop growth parameters Change in knowledge, change in skill, change in perception, change in yield(q/ha), change in rate of adoption(%), Profitgain(Rs), B:C ratio
xiii.	Source of Technology : (ICAR/ AICRP/ SAU/ Other, please specify):
	Scientists Involved : David James Bage, Scientist (Agril. Extension), Dr. Manoj Kumar Jena, Scientist (Soil Science)

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	ATMA	2,88,000
2.	Mission Shakti	5,00,000
3.	PKVY	3,30,300
4.	ASCI Skill india	3,60,000

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

- Honey Bee rearing
- Small unit vermicomposting by tribals.
- Mushroom cultivation.
- IFS Model

12. Scientific Advisory Committee

Date of SAC meeting held during 2021	Proposed date during 2022
29/12/2021	December 2022

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	300										30	400
Water Samples	10										10	
Other (Please specify)												
Total	310										40	400

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to 31.03.2022	Expected fund requirement (Rs.)
Salary	77,27,219	88,00,000
TA	1,12,260	2,20,000
Cont.(K.V.K)	3,00,000	8,00,000
TSP	15,00,000	12,00,000
Non-Recurring (Vehicle+ Repair and Renovation)	15,28,255	57,60,000
Building	0	-
Total	1,11,67,734	1,61,80,000

* Any additional requirement may be suitably justified.

Sd/-
Senior Scientist & Head
KVK, Sundargarh-1