# **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		kvksundargarh1.ouat@gmail.com
ODISHA		pckvksng@yahoo.co.in

#### **2.**Name of host organization :

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

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

# (a) Farmers and farmwomen

Sl	Thematic	Title of Training	Ν	Durat	Venue	Tentative	No	. 0	f Pa	rti	cip	an	ts		
no	area		0.	10 <b>n</b>	On/ Off	Date	SC		ST	Γ	O th	,	То	tal	
								-		-	er	-		ਜ	T
1	Mobilization of social capital	Formation and management of Farmer Producer organizations	1	1	Off campus	4/6/2022	IVI	F	IVI	r	IV	r	IVI	r	<b>1</b> 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 <sup>th</sup> 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 <sup>th</sup> July 2022									30
12	Pisciculture	Weed management in	1	1	Off	5/7/2022									30

Sl	Thematic	Title of Training	Ν	Durat	Venue	Tentative	No	. of	f Pa	rti	cip	an	ts		
no	area		0.	ion	On/ Off	Date	SC		S	Г	C tl	) h r	To	otal	l
							Μ	F	Μ	F	N	F	Μ	F	Т
		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 diversificatio n	Improved package and practices for Arhar cultivation	1	1	Off campus	8 <sup>th</sup> august 2022									30
27	IWM	Integrated weed management in DSR	1	1	Off campus	18 <sup>th</sup> 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 <sup>ar</sup> August 2022									30

Sl	Thematic	Title of Training	Ν	Durat	Venue	Tentative	No	. of	Pa	rti	cip	pan	ts		
no	area		0.	ion	On/ Off	Date	SC	l ,	SI	Γ	C tl e	) h r	To	otal	l
							Μ	F	Μ	F	N	F	Μ	F	Т
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 <sup>th</sup> 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 <sup>th</sup> 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	19/10/202 2									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 <sup>th</sup> and 19 <sup>th</sup> 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	Thematic	Title of Training	Ν	Durat	Venue	Tentative	No	. 0	f Pa	rti	cip	an	ts		
no	area		0.	10 <b>n</b>	On/ Off	Date	SC		S	Γ	0 tł	) 1	To	tal	
								r			e	r		<u> </u>	
							Μ	F	Μ	F	N	F	Μ	F	Т
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 <sup>th</sup> and 20 <sup>th</sup> 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 <sup>th</sup> 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	Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date			No	<b>. of</b> ]	Parti	cipa	nts		
110					On/On	Date	S	С	S	Г	Oth	ner	r	Fota	l
							Μ	F	Μ	F	Μ	F	Μ	F	Т
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

SI	Thrust area/	Title of	No.	Duration	Venue	Tentative			No.	of l	Parti	cipa	ants		
по	area	Training			011/011	Date	S	С	S	Г	Ot	he	]	Гota	1
							Μ	F	М	F	M	F	Μ	F	Т
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			campus	03/02.2022					
6	INM	management 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         No. of Participants           Cours         SC         ST         Other									Gran	d Tota	al	
	Cours		SC			ST			Othe	r			
	es	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
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												15
Fodder production													0
Production of organic inputs													
Others (cultivation of crops)													
TOTAL													
II Horticulture													
a) Vegetable Crons													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Vield 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			No.	of Pa	articip	ants				Gran	d Tota	al
	Cours		SC			ST		(	Othe	r			
	es	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
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			-		1								
Soil and Water Conservation													
Integrated Nutrient Management													30
	10												0
Production and use of organic inputs													60
- reduction and use of organic inputs	2												0
Management of Problematic soils	1												30

Thematic Area	No. of			articip	ants				Gran	d Tota	al		
	Cours		SC			ST		(	Othe	r			
	es	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
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	_												15
gardening and nutrition gardening	5												0
Design and development of													
low/minimum cost diet													
Designing and development for high													
nutrient efficiency diet													
Minimization of nutrient loss in													
processing												<b> </b>	
Gender mainstreaming through													
SHGs												<b> </b>	
Storage loss minimization techniques	1												30
Entomico dovolormont	1												20
Enterprise development	1												50
Value addition													
Income generation activities for	4												12
empowerment of rural Women	4												0
												<b> </b>	
Location specific drudgery reduction	2												60
technologies													
Rural Crafts													
Capacity building													
Woman and abild aara													
women and child care													
Others, if any													
TOTAL					1								
VI.Agril. Engineering													
Installation and maintenance of			1	†	1	† – – –							†
micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and													
implements													

CourseSUFTM </th <th>Thematic Area</th> <th>No. of</th> <th colspan="8">of No. of Participants</th> <th></th> <th>Gran</th> <th>d Tota</th> <th>al</th>	Thematic Area	No. of	of No. of Participants									Gran	d Tota	al
esMFTMFTMFTMFTMFTmachiney and implements<		Cours		SC			ST		(	Othe	r			
Repair and maintenance of farm machinery and implements and maintenance of farm machinery and implements and value addition Post Harvest Technology 2000 2000 2000 2000 2000 2000 2000 20		es	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
machacy and implements	Repair and maintenance of farm													
Small scale processing and value addition       Image: Construction       Image: Construction         Post Harvest Technology       Image: Construction       Image: Construction       Image: Construction         Post Harvest Technology       Image: Construction       Image: Construction       Image: Construction         VII. Plant Protection       Image: Construction       Image: Construction       Image: Construction         Production of bio control age: stand the scale scale       Image: Construction       Image: Construction       Image: Construction         Others, if any       Image: Construction       Image: Construction       Image: Construction       Image: Construction         TOTAL       Image: Construction	machinery and implements													
addition       Image: Constraint of the second	Small scale processing and value													
Post Harvest Technology       Image: Comparison of the second secon	addition													
Others, if any       Image in the second secon	Post Harvest Technology													
TOTAL       Image in the second	Others, if any													
VII. Plant Protection       Image and the sease of the s	TOTAL													
Integrated Pist Management       Integrated Disease Management       Integrated Disease Management         Bio-control of pets and diseases       Integrated Diseases       Integrated Diseases         Production of bio control agents and bio pesticides       Integrated Diseases       Integrated Diseases         Others, if any       Integrated fish farming       Integrated fish farming       Integrated fish farming       Integrated fish farming         7       Integrated fish farming       7       Integrated Disease       Integrated Disease         Carp breeding and hatchery       Integrated fish culture & fish disease       Integrated Disease       Integrated Disease         Fish feed preparation & its       Integrated of the nursery, rearing & stocking pond       Integrated Culture of fish and praw       Integrated Disease         Portable plastic carp hatchery       Integrated Disease       Integrated Disease       Integrated Disease         Portable plastic carp hatchery       Integrated Disease       Integrated Disease       Integrated Disease         Fish feed preparation & its       Integrated Disease       Integrated Disease       Integrated Disease         Portable plastic carp hatchery       Integrated Disease       Integrated Disease       Integrated Disease         Portable plastic arp hatchery       Integrated Disease       Integrated Disease       Integrated Disease <td>VII. Plant Protection</td> <td></td>	VII. Plant Protection													
Integrated Disease Management       Image of the control of pests and diseases       Image of the control agents and bio pesticides       Image bio pesticides       Image bio pestic	Integrated Pest Management													
Bio-control of pests and diseases Production of bio control agents and bio pesticides Production Pro	Integrated Disease Management													
Production of bio control agents and bio pesticides of bio pesticides production bio pes	Bio-control of pests and diseases													
bio pesticides	Production of bio control agents and													
Others, if any       Image: Constraint of the second	bio pesticides													
TOTAL       Integrated fish farming       7       21         Carp breeding and hatchery       7       21       0         Carp breeding and hatchery       7       21       0         Carp breeding and hatchery       21       0       0       0         Portable preparation & its       21       0       0       0       0         Hatchery management and culture of freshwater prawn       21       0	Others, if any													
VIII. Fisheries       Image of the faming       7       21       21         Integrated fish faming       7       21       21         Carp breading and hatchery       20       21         management       20       21         Composite fish culture & fish diseace       21       21         Fish feed preparation & its       21       21         application to fish pond, like nursery,       21       21         rearing & stocking pond       21       21         Hatchery management and culture of freshwater prawn       21       21         Portable plastic carp hatchery       21       21         Pen culture of fish and prawn       21       21         Shrimp faming       21       21         Edible oyster faming       21       21         Pearl culture       21       21         Others, if any       21       21         TOTAL       21       21         Bio-agents production       21       21         Bio-agents production       21       21         Diso-agents production       21       21         Bio-agents production       21       21         Bio-agents production       21       21	TOTAL													
Integrated fish farming       7       21         Carp breeding and hatchery       0         Management       0         Carp fry and fingerling rearing       0         Composite fish culture & fish disease       0         Fish feed preparation & its       0         application to fish pond, like nursery,       0         rearing & stocking pond       0         Hatchery management and culture of       0         freshwater prawn       0         Breeding and culture of ornamental       0         fishse       0         Portable plastic carp hatchery       0         Pen culture of fish and prawn       0         Shrimp farming       0         Edible oyster farming       0         Pearl culture       0         Fish processing and value addition       0         Others, if any       0         TOTAL       0 <b>IN: Production of Inputs at site</b> 0         Seed Production       0         Bio-sectickes production       0         Bio-fertilizer production       0         Bio-fertilizer production       0         Production of Ree-colonies and wax sheets       0         Small tools and	VIII. Fisheries													
Carp breeding and hatchery     0       Carp fry and fingerling rearing     0       Carp fry and fingerling rearing     0       Composite fish culture & fish disease     0       Fish feed preparation & its     0       application to fish pond, like nursery,     0       rearing & stocking pond     0       Hatchery management and culture of     0       freshwater prawn     0       Breeding and ulture of onnamental     0       fishse     0       Portable plastic carp hatchery     0       Pen culture of fish and prawn     0       Shrimp farming     0       Edible oyster farming     0       Pearl culture     0       TOTAL     0 <b>X. Production of Inputs at site</b> 0       Bio-agents production     0       Bio-agents production     0       Bio-agents production     0       Bio-agents production     0       Production of Inputs at site     0       Bio-agents production     0       Production of Secolonics and wax sheets     0       Bio-agents production     0	Integrated fish farming	7												21
Carp breeding and hatchery		/												0
managementImagementImagementImagementCarp fry and fingerling rearingImagementImagementComposite fish culture & fish diseaseImagementImagementFish feed preparation & its application to fish pond, like nursery, rearing & stocking pondImagementHatchery management and culture of freshwater prawnImagementBreeding and culture of ornamental fishesImagementPortable plastic carp hatcheryImagementPon culture of fish and prawnImagementShrimp farmingImagementPen culture of fish and prawnImagementShrimp farmingImagementPearl cultureImagementPearl cultureImagementTOTALImagement <b>X. Production of Inputs at site</b> Seed ProductionBio-agents productionBio-agents productionBio-agents productionBio-agents productionBio-agents productionProduction of fish and fightingsProduction of Secolonies and wax sheetsSmall tools and implementsProduction of livestock feed and fodderProduction of livestock feed and fodderProduction of Fish feedImagement and cultureImagement and cultureImag	Carp breeding and hatchery													
Carp fry and fingerling rearing	management													
Composite fish culture & fish disease	Carp fry and fingerling rearing													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond       Image: Constraint of the point of th	Composite fish culture & fish disease													
application to fish pond, like nursery, rearing & stocking pond       Image: Constraint of the stocking pond         Hatchery management and culture of freshwater prawn       Image: Constraint of the stocking pond       Image: Constraint of the stock number of the stocking pond         Breeding and culture of ornamental fishes       Image: Constraint of the stock number of the stock n	Fish feed preparation & its													
raring & 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 Edible oyster farming Pen culture of fish and prawn Edible oyster farming Pearl culture Dearl culture Conters, if any TOTAL IX. Production of Inputs at site Bio-agents production Bio-agents Pio-Agents Bio-Ag	application to fish pond, like nursery,													
Hatchery management and culture of freshwater prawn       Image in the second sec	rearing & stocking pond													
freshwater prawn       Image: Construction of the second sec	Hatchery management and culture of													
Breeding and culture of ornamental fishes       Image: Constraint of the second s	freshwater prawn													
fishesImage: state in the image: state in	Breeding and culture of ornamental													
Portable plastic carp hatcheryImage: Constraint of the second	fishes													
Pen culture of fish and prawnImage: Constraint of the second	Portable plastic carp hatchery													
Shrimp farmingImage: Shrimp farmingImage: Shrimp farmingImage: Shrimp farmingPearl cultureImage: Shrimp farmingImage: Shrimp farmingImage: Shrimp farmingOthers, if anyImage: Shrimp farmingImage: Shrimp farmingImage: Shrimp farmingTOTALImage: Shrimp farmingImage: Shrimp farmingImage: Shrimp farmingIX. Production of Inputs at siteImage: Shrimp farmingImage: Shrimp farmingSeed ProductionImage: Shrimp farmingImage: Shrimp farmingImage: Shrimp farmingPlanting material productionImage: Shrimp farmingImage: Shrimp farmingImage: Shrimp farmingBio-agents productionImage: Shrimp farmingImage: Shrimp farmingImage: Shrimp farmingOrganic manures productionImage: Shrimp farmingImage: Shrimp farmingImage: Shrimp farmingProduction of fish feedImage: Shrimp farmingImage: Shrimp farmingImage: Shrimp farmingShrimp farmingImage: Shrimp fa	Pen culture of fish and prawn													
Edible oyster farmingImage: Second ProductionImage: Second ProductionImage: Second ProductionPearl cultureImage: Second ProductionImage: Second ProductionImage: Second ProductionImage: Second ProductionTOTALImage: Second ProductionImage: Second ProductionImage: Second ProductionImage: Second ProductionBio-agents productionImage: Second ProductionImage: Second ProductionImage: Second ProductionImage: Second ProductionBio-agents productionImage: Second ProductionImage: Second ProductionImage: Second ProductionImage: Second ProductionBio-agents productionImage: Second ProductionImage: Second ProductionImage: Second ProductionImage: Second ProductionBio-agents productionImage: Second ProductionImage: Second ProductionImage: Second ProductionImage: Second ProductionBio-fertilizer productionImage: Second ProductionImage: Second Production ProductionImage: Second ProductionImage: Second ProductionOrganic manures productionImage: Second Production of Bee-colonies and waxImage: Second Production of Production of Ivestock feed and fodderImage: Second Production of Prish feedImage: Second Production of Prish feedImage: Second Production Production of Prish feedImage: Second Production of Prish feedImage: Second Production Production of Prish feedImage: Second Production Production of Prish feedImage: Second Production Production Production Prish FeedImage: Second Production Production Production Prish FeedImage: Second Production Production Production Prish feedImage: Second Production	Shrimp farming													
Pearl cultureImage: constraint of the second se	Edible oyster farming													
Fish processing and value additionImage: state	Pearl culture													
Others, if anyImage: Constraint of the second s	Fish processing and value addition													
TOTALImage: constraint of the second sec	Others, if any													
IX. Production of Inputs at siteImage: stateImage: state <td>TOTAL</td> <td></td>	TOTAL													
Seed ProductionImage: Seed ProductionImage: Seed ProductionImage: Seed ProductionBio-agents productionImage: Seed ProductionImage: Seed ProductionImage: Seed ProductionBio-fertilizer productionImage: Seed ProductionImage: Seed ProductionImage: Seed ProductionOrganic manures productionImage: Seed Production of fry and fingerlingsImage: Seed Production of Figure Seed Production of Bee-colonies and waxImage: Seed Production of Seed Production of Ilvestock feed and fodderImage: Seed Production of Figh FeedImage: Seed Production of Figh FeedImage: Seed Production of Figh FeedImage: Seed Production	IX. Production of Inputs at site													
Planting material productionImage: constraint of the second s	Seed Production													
Bio-agents productionImage: second secon	Planting material production													
Bio-pesticides productionImage: Constraint of the second seco	Bio-agents production													
Bio-fertilizer productionImage: Constraint of the sector of t	Bio-pesticides production													
Vermi-compost productionImage: CompositionImage: CompositionImage: CompositionOrganic manures productionImage: CompositionImage: CompositionImage: CompositionProduction of fry and fingerlingsImage: CompositionImage: CompositionImage: CompositionProduction of Bee-colonies and wax sheetsImage: CompositionImage: CompositionImage: CompositionSmall tools and implementsImage: CompositionImage: CompositionImage: CompositionImage: CompositionProduction of livestock feed and fodderImage: CompositionImage: CompositionImage: CompositionImage: CompositionProduction of Fish feedImage: CompositionImage: CompositionImage: CompositionImage: CompositionImage: CompositionOthers, if anyImage: CompositionImage: CompositionImage: CompositionImage: CompositionImage: CompositionTOTALImage: CompositionImage: CompositionImage: CompositionImage: CompositionImage: Composition	Bio-fertilizer production													
Organic manures productionImage: Constraint of the second sec	Vermi-compost production													
Production of fry and fingerlings       Image: Constraint of the second se	Organic manures production													
Production of Hy and Higorings       Importance	Production of fry and fingerlings													
sheets     Image: construction of Dec construction of Dec construction of Section (Section Construction of Section Construction of Section Construction of Section Construction of Section Construction of Fish feed     Image: Construction Construction (Section Construction Construction Construction Construction Construction Construction Construction Construction Construction (Section Construction Constructin Construction Construction Construction Constructin Con	Production of Ree-colonies and wax													
Small tools and implements       Image: Constraint of the stock feed and fodder	sheets													
Production of livestock feed and fodder     Image: Constraint of the second secon	Small tools and implements			1										
fodder	Production of livestock feed and			-										
Production of Fish feed     Image: Constraint of the second	fodder													
Others, if any     Image: Constraint of the second se	Production of Fish feed													
TOTAL	Others if any													
	TOTAL			1										
X. Capacity Building and Group	X. Capacity Building and Group			-										

Thematic Area	No. of			No.	of Pa	rticip	ants				Gran	d Tota	al
	Cours		SC			ST			Othe	r			
	es	Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs	2												60
Mobilization of social capital	4												12
	4												0
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					Grand	l Total						
	Courses		SC			ST			Other				
		Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Mushroom	4												60
Production	4												
Bee-keeping	1												15
Integrated farming													
Seed production													
Production of organic	1												15
inputs	1												
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	No. of Participants										l Total	
	Courses		SC			ST	-		Other				
		Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
Piggery													
Rabbit farming													
Poultry production	1												15
Ornamental fisheries													
Para vets													
Para extension													
workers													
Composite fish	1												15
culture	1												
Freshwater prawn													
culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and													
processing													
technology													
Fry and fingerling													
rearing													
Small scale													
processing													
Post Harvest													15
Technology (Value	1												
Addition)													
Tailoring and													
Stitching													
Rural Crafts													
Enterprise	1												15
development	1												
Others if any (Weed	1												15
management)													
TOTAL													

#### **Extension functionaries**

Thematic Area	No. of				No. of	Partic	cipants				Grane	l Tota	al
	Courses		SC			ST			Other				
		Μ	F	Т	Μ	F	Т	Μ	F	Т	Μ	F	Т
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	1						15
SHGs	1						
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

C1	Crop &	Proposed	Tashnalagy paskaga for	Parameter (Data) in	Cost of C	ultivation	( <b>Rs.</b> )	No.	of fa	rmer	s / d	emo	onstr	atio	n	
No.	variety /	Area (ha)/	demonstration	technology	Name of	D	<b>T</b> 1	SC	1	ST		Ot	her	То	tal	
	Enterprises	UIIIt (NO.)		demonstrated	Inputs	Demo	Local	Μ	F	Μ	F	Μ	F	Μ	F	Т
1	Blackgram	2.0	Post emergence application of Quizalofop ethyl 5 EC @ 50 ml/ha at 20-25 DAS	Weed Density/m <sup>2</sup> , Weed control efficiency, Yield (q/ha), B:C ratio	Quizalof op ethyl 5 EC											10

Activity	Title of Activity	No.	Cliente	Durat	Date	Venue				I	No. o	f Pa	rticip	ants	
			le	ion		On/Off	SC	11	S	Т	Otl	ner	Tot	al	
							Μ	F	Μ	F	Μ	F	Μ	F	Т
Training	Importance of weed management in	1	F/FW	2	4 <sup>th</sup> wk of	Off									30
_	Blackgram for higher production				November										
Field Day	Weed management in Blackgram	1	F/FW	1	2 <sup>nd</sup> wk of Nov	of Nov 2 <sup>nd</sup> wk									50
_				1 2 WK OF NOV 2 WK		of Nov									
Method	Line showing	1	F/FW	1	$1^{st}wk$	Off									25
demonstrat					November										
ion	Application of herbicides	1	F/FW	1	4 <sup>th</sup> wk of	Off									25
					January										

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

SI	Crop &	Proposed Area (ba)/ Technology package for Parameter (Data) in relation to		Cost of Cul	ltivation (H	Rs.)	No. a	of fai	rmers	/ <b>d</b>	emo	nstra	tion			
No.	Enterpri	Area (ha)/	demonstration	technology	Name of			SC		ST	1	Ot	her	To	tal	
	ses	Unit (No.)	demonstrated	demonstrated	Inputs	Demo	Local	Μ	F	Μ	F	Μ	F	Μ	F	Т
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

Activity	Title of Activity	No.	Clientel	Durat	Date	Venue				N	lo. of	f Par	ticipa	nts	
			e	ion		On/Off	SC	1 2	S	T	Ot	her	Tot	tal	
							Μ	F	Μ	F	Μ	F	Μ	F	Т
Training	Package & practices for maize cultivation	1	F/FW	2	2 <sup>ND</sup> week of	Off									30
					June										
Field Day	Production of maize	1	F/FW	1	1 <sup>ST</sup> Week of	$2^{nd}wk$									50
					October	of Nov									
Method	Line showing, INM	1	F/FW	1	2 <sup>nd</sup> week of	Off									25
demonstratio					July										
n															

FLD No3:	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

				Parameter	Cost of Cu	ltivation	( <b>Rs.</b> )	No. o	f farı	ners /	dem /	onstra	ation			
	Crop &	Proposed		(Data) in				SC		ST		Oth	er	To	tal	
SI. No.	variety /	Area (ha)/ Unit	Technology package for demonstration	relation to technology	Name of	Demo	Local									
1.00	Enterprises	(No.)		demonstrate	Inputs	2 • • • • •		M	F	Μ	F	Μ	F	Μ	F	Т
				d												
	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

Activity	Title of Activity	No.	Clientele	Duration	Venue	Date			N	<b>10. 0</b>	f Paı	rticip	pants	5	
					On/Off		S	С	S	Г	Ot	her	To	tal	
							Μ	F	Μ	F	Μ	F	Μ	F	Т
Training	IWM In Groundnut	1	FW	1	Off	2 <sup>nd</sup> week									30
						October									
Method	Application of Herbicides	1	FW	1	Off	2 <sup>nd</sup> week									30
Demo					campus	October									
Field Day	IWM in Groundnut			1	Off	Dec 4 <sup>th</sup> week									40
					campus										

FLD No4 :	Demonstration of Integrated Nutrient Management In Tomato
Crop:	Tomato
Problem:	Low yield due to poor nutrient management
Thrust Area:	INM
Thematic Area:	INM
Season :	Rabi, 2022-23
Farming Situation :	Irrigated medium land, Rice -Vegetable

				Parameter	Cost of (	ultivation (	Rs.)	No. o	f farm	ers / o	demonstration						
SI	Crop &	z Proposed	Tashnalagy paskage for	(Data)	n			SC		ST		Othe	r	Tot	al		
51. No.	variety Enterprises	/ Area (ha)/ Unit (No.)	demonstration	relation technology demonstrate	o Name o Inputs d	f Demo	Local	М	F	Μ	F	М	F	М	F	Т	
	Tomato	0.4 ha (10 Nos)	STBF + Seedling treatment with bio- fertilizer (Azotobacter @ 2% solution), foliar spray of water soluble fertilizers (N:P:K 19:19:19 @ 0.5% ) at 30 DAT+ foliar application of micronutrient mixture (Borax 0.2% and ZnSO4 0.5%) at 45 DAT	Fruit weigh No. of frui per plat Yield (q/ha B.C. Ratio	t, Azotobac e+ N:P: 19:19:19 (Borax 0.2% ar ZnSO4 0.5%)	t K d										10	
	Extension and	Training activ	ities under FLD:			•	•	•									
Activit	у Т	itle of Activity	No	. Clientel	e Duratio	n Venue	e Da	ate			No.	of Par	ticipa	nts			
						On/Of	f		50	r	СТ	04	hom	Tata			

lieelitey	The office of the	1,00	onentene	Durunom	v entae	Dutt								•	
					On/Off		S	SC	S	Т	Ot	her	To	otal	
							Μ	F	Μ	F	Μ	F	Μ	F	Т
Training	INM In tomato	1	FW	1	Off	2 <sup>nd</sup> week									30
						October									
Method Demo	Application of Fertilisers	1	FW	1	Off	2 <sup>nd</sup> week									30
					campus	October									
Pamphlet	Bilatibaigan phasal re sara parichalana	1				October									500
Field Day	INM in tomato			1	Off	Dec 4 <sup>th</sup> week									40
					campus										

FLD No5 :	Demonstration of INM in Brinjal
Crop:	Brinjal
Problem:	Low yield due to poornutrient management inbrinjal
Thrust Area:	INM
Thematic Area:	INM
Season :	Rabi, 2022-23
Farming Situation :	Irrigated medium land, Rice -Vegetable

						Parameter	Cos	st of Culti	vation	( <b>Rs.</b> )	N	lo. of	farı	ners	/ de	emo	nstrat	ion	
C1	Crop &	Proposed				(Data)	in				S	С	S	Г	0	ther	To	tal	
No.	variety / Enterprises	Area (ha)/ Unit (No.)	Technology package for o	demonstr	ation	relation technology demonstrate	to Nan Inp ed	me of outs	De mo	Local	N	/I F	Μ	E	' M	( F	Μ	F	Т
	Brinjal	0.4 ha (10 Nos)	Appl i c a t i on of 75% i ze r N + 100% ferti 2t/ha + Bioinoculation of +Azospirilum 4 kg/ ha FYM (Lime 10kg) incuba moisture & applied in rhiz planting	of STE lizer P & Azotobac with 200 ted for 7 zosphere a	BFR Fertil K + FYM @ eter 4kg/ ha Okg prelimed days at 30% at the time of	Fruit weig No. of fr per plant, Yi (q/ha), E Ratio	ght, uits eld b.C. FY	otobacter ospirilum h limed M											10
<b></b>	Extension ar	nd Training a	ctivities under FLD:				r												
Activi	ity	Title of Acti	vity	No.	Clientele	Duration	Venue	Da	ite			N	lo. 0	f Pa	rtici	ipan	ts		
																	4-1		
							On/Off	•		SC	1	ST		Oth	er	T 6	เล		
							On/Off			SC M	F	ST M I	7	Oth M	er F	To M	F	T	
Traini	ng	INM in Brin	jal	1	FW	1	On/Off Off	2 <sup>nd</sup> wee	ek	SC M	F	ST M I	7	Oth M	er F	M	F	<b>T</b> 30	
Traini	ng	INM in Brin	jal	1	FW	1	On/Off Off	2 <sup>nd</sup> wee Octobe	ek er	SC M	F	ST M I	<u>.</u>	Oth M	er F	M	F	<b>T</b> 30	
Traini	ng od Demo	INM in Brin	jal of Fertilisers	1	FW FW	1	On/Off Off Off	2 <sup>nd</sup> wee Octobe	ek er ek	M M	F	ST M I	7	Oth M	er F	M	F	T 30 30	
Traini Metho	ng od Demo	INM in Brin	jal of Fertilisers	1	FW FW	1	On/Off Off Off campus	2 <sup>nd</sup> wee Octobe 2 <sup>nd</sup> wee Octobe	ek er ek er	SC M	F	ST M I	7	Oth M	er F	M	F	T 30 30	
Traini Metho	ng od Demo	INM in Brin	jal of Fertilisers	1	FW FW	1	On/Off Off Off campus	2 <sup>nd</sup> wee Octobe 2 <sup>nd</sup> wee Octobe	ek er ek er	SC       M	F	ST M H	<u> </u>	Oth M	er F		F	T 30 30	
Traini Metho Pampl	ng od Demo nlet	INM in Brin Application Baigan phase	jal of Fertilisers al re sara parichalana	1 1 1 1	FW FW	1	On/Off Off Off campus	2 <sup>nd</sup> wee Octobe 2 <sup>nd</sup> wee Octobe	ek er ek er er		F	ST M I	<u> </u>	Oth M	er F			T 30 30 500	
Traini Metho Pampl	ng od Demo nlet Day	INM in Brin Application Baigan phase	jal of Fertilisers al re sara parichalana jal	1 1 1 1	FW FW	1 1 1 1 1 1 1	On/Off Off Off Off Off Off	2 <sup>nd</sup> wee Octobe 2 <sup>nd</sup> wee Octobe Octobe	ek er ek er er		F			Oth M	er F			T         30           30         30           500         40	

FLD No6 :	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

					Parameter	ſ	Cost of (	Cultivati	on (Rs.)	No. of	f farm	ers /	demo	onstr	atio	n			
SI	Crop &	Proposed	Tachnalagy nacka	a for	(Data)	in				SC		ST		O	ther		Tot	tal	
No.	variety / Enterprises	Area (ha)/ Unit (No.)	demonstration	ge Ioi	relation technology demonstra	to y ated	Name of Inputs	f Demo	0 Local	Μ	F	М	F	Μ	: I	F	Μ	F	Т
	Banana	0.8 ha (10 Nos)	Blending 15g (7.5g Urea sulphate of potash) di 100ml water in 500g of dung & applying the sl de-navelled stalk end fruit set	a & 7.5g of ssolved in fresh cow urry to the soon after	Bunch we Finger size Pulp: Peel days maturity	eight, e(wt), ratio, to	Urea+ Sulphateo f Potash- fresh cowdung	-											10
	Extension an	d Training ac	ctivities under FLD:			1_		_											
Activit	y	Title of Activ	vity	No.	Clientele	Dur	ation	/enue	Date				No.	of Pa	artic	ipan	ts		
							(	)n/Off			SC	S	5T	Oth	ıer	То	tal		
										Ν	<b>I F</b>	Μ	F	Μ	F	Μ	F	Т	
Trainin	ıg	Bunch feeding	g in Banana	1	FW	1	0	Off	2 <sup>nd</sup> week October									30	
Method	d Demo	Preparation and feed	nd application of bunch	1	FW	1	C	Off ampus	2 <sup>nd</sup> week October									30	
Pamph	let	Kadalichasare	eamalabrudhiraprayog	1					October									500	)
Field D	Day	Bunch feeding	g of banana			1	( c	Off ampus	Dec 4 <sup>th</sup> wee	ek								40	

FLD No7 :	Demonstration on potassium and zinc application for management of iron toxicity in rice.
Crop:	Rice
Problem:	Low yield ofRice due to nonapplication of micronutrients
Thrust Area:	INM
Thematic Area:	INM
Season :	Kharif 2022
Farming Situation :	Rice -Fallow

Field Day

Bunch feeding of banana

					Parameter	r	Cost of	f Cultivati	ion (Rs.)	No. of	f farm	ners /	demo	nstra	tion				
SI	Crop &	Proposed	Tachnology nac	kaga for	(Data)	in	Name			SC		ST		Ot	ner	Te	otal		
No.	variety / Enterprises	Area (ha)/ Unit (No.)	demonstration	Kage IOI	relation technolog demonstra	to y ated	of Input s	Demo	Local	М	F	М	F	M	F	Μ	F	Т	
	Rice4.0 ha (10 Nos)Application of 25 kg Z top dressing of M after drainage of water		ZnSO4/ha and IOP@30kg/ha r.	No. tillers/hill, of aff hills/Sq.mt Yield (q/ha B.C. Ratio	of No. Fected r, a),	Zinc Sulph ate, MOP											10		
	Extension an	d Training ac	tivities under FLD:			_			-										
Activit	ty	<b>Title of Activ</b>	rity	No.	Clientele	Dur	ation	Venue	Date			No.		o. of Participant			nts		
								On/Off			SC	S	Т	Oth	er [	otal			
										N	1 F	Μ	F	M	FN	F	Т		
Trainir	ng	INM		1	FW	1		Off	2 <sup>nd</sup> week June								30		
Metho	d Demo	Preparation and feed	nd application of bunch	1	FW	1		Off campus	2 <sup>nd</sup> week Juner								30		
Pamph	lot	Kadaliahasar	amalabrudhiraprayog	1					Inly								50	0	

1

October 4<sup>th</sup>wk

40

Off

campus

# 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

CI				Parameter	Cost of Culti	vation (Rs	s.)	No.	of fa	rmer	s / de	emon	strati	on		
SI. ( No. /	Crop & variety	Proposed	Technology package	(Data) in				SC		ST		Oth	er	Tota	al	
No.	/ Enterprises	Area (ha)/ Unit (No.)	for demonstration	relation to technology demonstrated	Name of Inputs	Demo	Local	М	F	М	F	Μ	F	Μ	F	Т
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

Activity	Title of Activity	No.	Clientele	Duration	Venue	No	. of Par	ticipa	nts											
					On/Off	S	SC		ST	Ot	her	То	tal							
						Μ	F	F M		Μ	F	Μ	F	Т						
Training	Pre-and post stocking													30						
	management in fish pond,																			
	Feed management																			
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

SI.				Parameter	Cost of Cult	tivation (R	Rs.)	No.	of fa	armei	rs / d	emor	nstra	tion		
SI.	Crop &	Proposed	Technology package for	(Data) in				SC		ST		Oth	er	Tota	al	
No.	variety / Enterprises	Area (ha)/ Unit (No.)	demonstration	relation to technology demonstrated	Name of Inputs	Demo	Local	М	F	Μ	F	М	F	Μ	F	Т
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

Activity	Title of Activity	No.	Clientele	Duration	Venue	No. of Participants																						
					On/Off	S	SC		ST		her	To	tal															
						Μ	F I		F	M F		Μ	F	Т														
Training	Pre-and post stocking						· _ ·							30														
	management in fish pond,																											
	Feed management																											
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

		Proposed		Parameter	Cost of Cult	tivation (l	Rs.)	No.	of fa	arme	rs / ċ	lemo	nstra	tion		
Sl. Crop & variety / Enterprises	Area	Technology nackage for	(Data) in				SC		ST		Oth	er	Tota	al		
No.	variety /	(ha)/	demonstration	relation to	Name of	Demo	Local									
110.	Enterprises	Unit		technology demonstrated Zooplankto	Demo	Local	Μ	F	Μ	F	Μ	F	Μ	$\mathbf{F}$	Т	
		(No.)		demonstrated												
1	Fish	5	Use of fermented agro products for	Plankton	Zooplankto											5
			enhancing zooplankton production in	density/50L,	n, mustard											
			fish nurseries. • Application of 48 hr.	Yield (t/ha) B:C	oil cake,											
			fermented mustard oil cake (10kg), de-	Ratio	molasses											
			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													

Activity	Title of Activity	No.	Clientele	Duration	Venue	No	. of Par	ticipa	nts					
					On/Off	S	SC		ST	Ot	her	To	tal	
						Μ	F	Μ	F	Μ	M F		F	Т
Training	Pre-and post stocking													30
	management in fish pond,													
	Feed management													
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	SituationBackyard

GI	Crop & Propose variety / d Area	Technology		Cost of Cultivation (	Rs.)		No	of f	farm	ers /	/ der	mon	strati	on		
SI. No	variety /	(ha)/	package for	Parameter (Data) in relation to		De		SC		ST		Otl	her	Total		
190.	s	Unit (No.)	n	technology demonstrated	Name of Inputs	mo	Local	Μ	F	Μ	F	Μ	F	Μ	F	Т
1	Vegetables	0.02	Nutritional	Consumption of vegetables/day/Kg	Seedlings(Papaya,											20
	_	(10)	garden with	Availability of vegetable/day/Kg	drum stick,											
			Protein,	Cost of input(Rs)mean increase in	solanaceous veg,											
			Vitamin & iron	consumption of vegetables and	tuber crops),											
			rich vegetables	fruits compared to RDA (%)	Seeds(Leafy veg),											
			and fruits	Additional IncomeRs	Pro Trey, Vermi											
					tank and Rope											

Activity	Title of Activity	No	Cliente	Dura	Venue	No. of Participants								
			le	tion	On/Off	S	С	S	Г	Oth	ler	r	Fotal	l
						Μ	F	Μ	F	Μ	F	Μ	F	Т
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

SI.	Crop &	Propose d Area	Technology	Parameter (Data) in	Cost of Cultivat	tion (Rs.)		No.	of fa	rmer	s / d	emon	strat	ion		
No	variety /	(ha)/	package for	relation to technology	Nama of			SC		ST		Oth	er	Tot	al	
110.	Enterprises	Unit (No.)	demonstration	demonstrated	Inputs	Demo	Local	Μ	F	Μ	F	Μ	F	Μ	F	Т
	Paddy straw	4 units	Mushroom	Pin head initiation	Spawn, Straw,	660/uni	300/uni									30
	Mushroom	10bed/un	cultivation by	(Days), spawn run	Pulse powder	t	t									
		it	using 5kg	period(days), budwt in	and polythene											
			crumpled straw,	gm, BE(%), Yield, net												
			pulse powder3%,	income, BC ratio												
			spawn-3%													
			soaking period 5													
			hrs with 2%													
			CaCO3													

Activity	Title of Activity	No.	Clientele	Duration	Venue	No.	of Pa	rticipa	ants					
					On/Off	S	С	S	Г	Oth	ner	To	tal	
						Μ	M F		F	Μ	F	Μ	F	Т
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

SI.	Crop &	Propose d Area	Tashnalagy paskaga fan	Parameter (Data) in	Cost of Cu	ltivation (	Rs.)	No. o	f farn	ners /	demo	nstrat	tion			
51. No	variety /	(ha)/	demonstration	technology	Name of			SC		ST		Oth	er	To	tal	
	Enterprises	Unit (No.)		demonstrated	Inputs	Demo	Local	М	F	Μ	F	Μ	F	Μ	F	Т
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											

Activity	Title of Activity	No.	Clientele	Duration	Venue	No. of Pa	artici	pants						
					On/Off	SC		S	Г	Oth	ner	Tot	tal	
						Μ	F	Μ	F	Μ	F	Μ	F	Т
Training	Production technology of paddy straw	1	F/FW	1										
	mushroom													
Field day	Different method of pasteurization of straw	1	F&FW, RY,											
	for controlling of Inkcaps in paddy straw		Line											
	mushroom bed		dept.officers											
Booklet	Production technology of paddy straw	200	F&FW, RY											
	mushroom													

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

SI	Crop &	Dronogod		Parameter (Data) in	Cost of Cu	ltivation (R	s.)	No.	of fa	rmer	s / d	emon	strat	ion		
Sl.	variety /	Area (ha)/	Technology package for	relation to	Nama of			SC		ST		Oth	er	Tota	al	
No.	Enterpris	Unit (No.)	demonstration	technology	Inallie of	Demo	Local	м	Г	м	Г	м	Г	м	Б	т
	es	Cint (1101)		demonstrated	inputs			IVI	Г	IVI	Ľ	IVI	Г	IVI	Ľ	I
	Oyster	20 nos	Cultivation of oyster	Pinhead	Spawn,	700/unit	nil									
	Mushroo	10beds/unit	mushroom variety	appearance(days)Bio	Straw, and											
	m		Hyspigygusulmarius	logical Efficiency	polythene											
			Biological efficiency- 92.5%	(%),Yield	bag											
			in 180-300Straw cutting 2-	(Kg/bag)Net Income												
			3inches, soaking of straw in	(Rs), B: C ratio												
			water for 6hrs in 2% CaCo3,													
			draining of straw (moisture													
			content 65%), Spawn -150gm													

Activity	Title of Activity	No.	Clientele	Duration	Venue	No.	of Pa	rticipa	nts					
					On/Off	S	С	S	Г	Oth	ner	Tot	al	
						Μ	F	Μ	F	Μ	F	Μ	F	Т
Training1	Production of Oyster	2	F&FW	2	Off									
	mushroom for income													
	generation													
	Post harvest management of	2	F&FW	1	Off									
	Oyster mushroom bed													
Field day & Book	Production of Oyster	1	F&FW	1	Off									40
disrtibution	mushroom													

FLD-15Demonstration on low-cost portable poly tunnel for seedling raising under TSPCrop:VegetablesProblemLow production due to use local seed in open conditionThrust Area:Production TechnologyThematic Area:IGASeason:Kharif-2022Farming Situation:Backyard

Sl.	Crop &	Propose	Technology package for	Parameter Cost of Cultivation (Rs.)						No. of	f farm	ers / de	emonstr	ation		
No.	variety /	d Area	demonstration	(Data) in	Name of	Demo	Local	S	С	S	Г	Ot	her		Total	
	Enterpri	(ha)/Uni		relation to	Inputs			Μ	F	Μ	F	Μ	F	Μ	F	Т
	ses	t (No.)		technology												
				demonstrated												
1		10	Low-cost poly tunnel made up of	% of seedling	Iron											
			Bamboo, PVC pipe installed in a	survival, seed	polytunn											
			raised bed, soil solarization, seed	germination %,	el, Seed											
			treatment practices ensure	Number of days	packet											
			production of Healthy seedling,	required from												
			Expected yield.	seed sowing to												
				transplanting												
				(days),B:C												
				ratio,Net profit												

Activity	Title of Activity	No.	Clientele	Duration	Venue	e No. of Participants			nts					
					On/Off	S	С	5	ST	Ot	her	То	tal	
						Μ	M F		F	Μ	F	Μ	F	Т
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

F C T S F	LD No – Crop: Thrust Ar Thematic Teason: Carming S	16 ea: Area: Situatio	on:	<b>Demonstration</b> Honeybee IGA Production of B Rabi 2022 Homestead	on rea	<b>ring of honey</b> nies	bee under	TSP														
							Parame	ter	Cost of Cultiva	tion (	<b>(Rs.)</b>			No	. of f	arm	iers	: / de	emo	onst	rati	on
SI	Crop	&	Proposed Area	Technology	pac	kage fo	(Data)	in						SC		ST		Ot hei	r	Tot	al	
N O	variety Enterpi	/ rises	(ha)/ Unit (No.)	demonstration	pue		relation technol demons	i to ogy strated	Name of Inputs	s D	emo	L	ocal	М	F	М	F	M	F	M	F	Т
	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> .         xtension and Training activities under FLD:         ivity       Title of Activity		rd nd ic os n, nd on ic		Bee Hive box with colony Smoker, Mask Honey extractor brush, and othe ne	r, 50 ,, ,, ,,	)00 x											10				
E Act	xtension	and T Title	raining activ	ities under FLD:	No	Clientele	Duration	Venue	Date				No	of P	arti	rina	nte					
1100	livity	11110	or receiving		110.	Chemene	Durution	On/Of	f	S	C	S	Т		her	-ipa	Tot	tal	T			
										M	F	M	F	M	F	N	1	F	]	[		
Tra	ining	Skill rearin	training on B lg (TSP)	ee-Keeping and	1	Rural Youth	5days	On	Jan 1 <sup>st</sup> week										2	25		
Mer Der	thod mo	Instal	lation of hone	ey bee box	10	RY	1	Off	Nov 3 <sup>rd</sup> week										2	25		
Ma	nual	Baigy Chas	vanakapadhha	ntireMahumachhi	1	F&FW, RY			4 <sup>th</sup> wk of October										5	500		
Fiel	ld Day	Color boxes	ny division in	honey bee	2	F&FW, RY	2	on	Feb1st week 2021										4	0		

FLD – 17       Demonstration on Production of vermicompost for income generation under TSP         Crop:       Vermicompost																
Crop:		Vermicompo	st													
Thrus	st Area:	Organic Farm	ning													
Them	atic Area:	Vermicompo	sting													
Seaso	<b>n</b> :	Kharif-2022														
Farm	ing Situation:	Homestead														
		Duou ogod		Deveryation (Deta) in	Cost of Cultiv	vation (F	Rs.)	No	). of	far	mer	:s / c	lem	onst	trat	ion
Sl. No.	Crop & variety / Enterprises	Area (ha)/	Technology package for demonstration	Parameter (Data) in elation to technology lemonstrated	Name of	Dem	Loca	SC	7 \	ST	r	Ot r	he	To	tal	
				demonstrated	Inputs	0	1	Μ	F	Μ	F	Μ	F	Μ	F	Т
	Vermicompost	10	Demonstration of	Yield /tank (Kg)	Earth-worm											30
			Vermicomposting, Recommended	Net Income, B.C ratio	RCC Rings											
			layer so for organic waste and cow													
			dung in vermitank( using													
			4'diacementring. Release of													
			earthworm @50nos/kg of organic													
			waste.													

Activity	Title of Activity	No.	Clientele	Duration	Venue	Date	No. of ParticipaSCSTOther		ants						
					On/Off		S	С	S	Т	Oth	ner	Tot	tal	
							Μ	F	Μ	F	Μ	F	Μ	F	Т
Training	Scientific method of vermicompost production	1	F/FW	5	Off	Sept 1 <sup>st</sup> wk									25
Training	Commercial vermicompost production	1	RY	5	On	Nov 2 <sup>nd</sup> wk									15
Method Demo	Preparation of compost pit, collection of bi-products for decomposition	1	F/FW	5	Off	Sept 1 <sup>st</sup> - 3 <sup>rd</sup> wk									25
Pamphlet	Jia khatachasa	500	F/FW	1		Sept 1 <sup>st</sup> wk									500
Field Day		1				Feb 2 <sup>nd</sup> wk									250

FLD	- 18	Demonstrati management	on on effectiveness of short technolo t in Rice	ogy videos on technology	adoption for I	ntegrated	l weed n	nana	ager	nen	t an	d N	utri	ent		
Crop	:	Rice														
Prob	lem	Less efficacy	of existing dissemination modes i.e	. text messages/verbal ac	lvisory											
Thru	st Area:	Short Video	preparation	C	•											
Them	natic Area:	ICT	•													
Seaso	n:	Kharif-2022														
Farm	ing Situation:	Rainfed, Mec	lium land													
					Cost of Cultiv	vation (R	s.)	No	o. of	far	mer	rs / d	lem	onst	trat	ion
SI. No.	Crop & variety / Enterprises	Area (ha)/	Technology package for demonstration	Parameter (Data) in relation to technology	Name of	Demo	Loca	SC		ST	I	Otl r	he	To	tal	
				demonstrated	Inputs	Demo	1	M	F	Μ	F	Μ	F	M	F	Т
	Rice	20	Preparationof 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

Activity	Title of Activity	No.	Clientele	Duration	Venue	Date				No. (	of Part	ticipa	ants		
					On/Off		S	С	S	T	Oth	ıer	Tof	al	
							Μ	F	Μ	F	Μ	F	Μ	F	Т
Training	Use of ICT in Agriculture	1	F/FW	2	Off	August 2 <sup>nd</sup> 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

	<b>i</b> 9
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. Cro No. / El		<b>D</b> 1			Cost of Culti	vation (H	Rs.)	No	o. of	far	mer	rs / (	dem	ons	trat	ion
SI. No.	Crop & variety / Enterprises	Area (ha)/	Technology package for demonstration	relation to technology	in <sup>ogy</sup> Name of Inputs	Dem	Loca	sc	, ,	ST	'	Ot r	the	To	otal	
		Umt (No.)		demonstrated	Inputs	0	1	Μ	F	Μ	F	Μ	F	Μ	F	Т
	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

Activity	Title of Activity	No.	Clientele	Duration	Venue	Date	No. of Participants								
					On/Off		S	C	S	Т	Oth	ier	Tot	al	
							Μ	F	Μ	F	Μ	F	Μ	F	Т
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	productionby utiliza	tion of instructional f	arm (Crops / Enterprises)
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Name of the	Variety / Type	Period	Area (ha.)	Details of F	Production			
Enterprise 7		April 2022- March 2023		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 /	Variety / Type	Period	Area	No. of			Details of 1	Production	
Enterprise	- ,	From to	(ha.)	farmers	Type of Produce	Expected Production(q)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)

#### 5. Extension Activities

Sl. No.	A stimiting (Such a stimiting	No. of			Farme	ers	Exten	sion Off	icials			Total
	Activities/ Sub-activities	proposed	Μ	F	Т	SC/ST (% of total)	Μ	F	Т	Μ	F	Т
1.	Field Day	12										
2.	KisanMela	2										
3.	KisanGhosthi	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.	Proposed purpose of
		in lakh)	utilization (in brief)
Hi-tech Nursery &	DMF, Sundargarh	98.20	Development of Hi-tech
Pond based IFS unit at			Nursery & Pond based IFS
KVK			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

	~		The second second
i.	Season:	:	Kharif 2022 ( 2 <sup>nd</sup> 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.	<b>Objective(s):</b>	:	To evaluate suitable Rice herbicides
xii.	Treatments:	:	
	Farmers Practice (FP)	:	Hand weeding at 30 & 50 DAT
	Technology option-I(TO-I)	:	Application of cyzalofon butyl $\pm$ penoxulam
			$(0.135 \alpha/h_{2.2} + 20 \Omega \Lambda T)$
	Technology option-II (TO-II)	:	Application of PE pendimethalin @0.75kg/ha,
			fb chlorimuron ethyl + metasulfuron methyl @
			4 g/ha @20DAT
xiii.	Critical Inputs:	:	Cyzalofop 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 <sup>2,</sup> No. effective tillers/hill,
			Panicle length, No. of grains/panicle, Test
			weight
			WCE(%), Yield(q/ha), Economics
			_
xix.	Source of Technology (ICAR/	:	OUAT, Annual report,2015, OUAT, Annual
	AICRP/ SAU/ Other, please		report, 2020
	specify):		-
XX.	Associated Scientists	:	SMS(Agronomy), Scientist(Soil Science)

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

# 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
111.	Thematic Area:	:	ICM
iv.	Problem diagnosed:	:	Residue burning causes environmental pollution as well as decreasing soil microbial properties.
<b>v.</b>	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.
х.	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)

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
<b>v.</b>	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.	<b>Objective</b> (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),
<u> </u>			Economics
xix.	Source of Technology (ICAR/	:	Annual Report (IFFCO Project) 2020-21,
	AICRP/ SAU/ Other, please		AAU, Annual report 2019-20
	specify):		
XX.	Scientists Involved	:	Scientist(Soil Science), SMS(Agronomy)

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

i.	Season:	:	Rabi 2022-23
ii.	Title of the OFT:	:	Assessment of PSB andVAM onGroundnut
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.
<b>v.</b>	Important Cause:	:	Low phosphorous availability due to fixation in
			acid soil
vi.	Production system:	:	Rice- Groundnut
vii.	Micro farming system:	:	Irrigated-Medium land
viii.	<b>Technology for Testing:</b>	:	Assessment of biofertilizers in Groundnut
ix.	Existing Practice:	:	Application of N-P <sub>2</sub> O <sub>5</sub> -K <sub>2</sub> O @ 20-40-20 kg/ha
х.	Hypothesis:	:	PSB helps in better solubilization of fixed
			phosphorous and VAM helps in better nutrient
			and water availability.
xi.	<b>Objective(s):</b>	:	To increase the yield of Groundnut through
			INM
xii.	Treatments:	:	
	Farmers Practice (FP)	:	Application of N-P2O5-K2O @ 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/	:	AINP on Soil Biodiversity and Biofertilizers,
	AICRP/ SAU/ Other, please		2010
	specify):		
XX.	Scientists Involved	:	Scientist(Soil Science), SMS(Agronomy)

# OFT No-4 Assessment of PSB andVAM inGroundnut

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
•••			
<u> </u>	Thematic Area:	:	Production Technology
iv.	Problem diagnosed:	:	Low yield from Paddy straw Mushroom from crumpled straw
<b>v.</b>	Important Cause:	:	Improper use of paddy straw
vi.	Production system:	:	Backyard
vii.	Micro farming system:	:	Backyard
viii.	Technology for Testing:	:	
ix.	Existing Practice:	:	
х.	Hypothesis:	:	T OI –Seeding the beds with 14- 20 days old spawn with well
			developed chlamydospores contributed for significantly higher
			yields, Biological Efficiency-12-15%
			1 02 – Seeding the beds with 14- 20 days old spawn contributed
			for significantly higher yields, Hollogenous moisture level and
			buttons with increase in yield Biological Efficiency 18 20%
vi	Objective(s):		To assess the suitable improved technology for sultivation of
хі.	Objective(s).	·	naddy straw using threshed straw for yield enhancement
vii	Treatments.	•	paddy straw using the shed straw for yield enhancement
<b>AII.</b>	Farmers Practice (FP)	•	Protongular compact method Size 45,460,20 Muchroom
		·	Rectangular compact method SiZe-45X60X50, Mushroom
			production by using crumpled paddy straw -3kg with normal practice (soaking in water 5hrs with 2% calcium carbonate)
			unknown age of snawn 3% of dry substrate weight) pulse nowder
			3% dry substrate weight BE-8-10%
-	Technology option-I(TO-I)	:	Square compact hed size $(30 \times 30 \text{ cm})$ Mushroom production by
			using crumpled paddy straw $5kg$ soaking of straw in water for
			5hrs in 2% CaCo3 14-20 days age snawn at 2% of dry substrate
			weight and coarsely ground horse gram powder (at 2% dry
			substrate weight)
	Technology option-II (TO-	:	Circular compact bed size -(45 cm diameter 30 cm height)
	II)		Mushroom production by using crumpled paddy straw 5kg
			soaking of straw in water for 5hrs in 2% CaCo3 14-20 days age
			snawn 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 <sub>3</sub>
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	:	Department of Plant Pathology, Tamil Nadu Agricultural
	(ICAR/ AICRP/ SAU/		University, Coimbatore-2012
	Other, please specify):		
XX.	Scientsits Involved	:	Scientist (Home Science) and Scientist (Ag. Extn)

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

	medine (1st 1 ear)		
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
<b>V.</b>	Important Cause:	:	Distress sale of farm produce and low pricerealisation
vi.	Production system:	:	Vegetable-vegetable, Rice-pulses
vii.	Micro farming system:	:	Irrigated, Rainfed
viii.	Technology for Testing:	:	
iv	Existing Practice		
IA.	Hypothosis:	•	ED: Formers marketing their produce through
			<ul> <li>intermediaries- Middle Man, Local Traders, OutSide Traders</li> <li>TO1: Farmers dealing with a single commodity through collective marketing with a single/number of agencies</li> <li>TO2: Farmers dealing with a single commodity with multiple tasks like sorting, grading, packing and marketing with one or various agencies</li> <li>TO3: Farmers dealing with multi-components like pulse/vegetables/enterprises with a single task like marketing of produce</li> <li>TO4: Farmers dealing with multi-components like pulse/vegetables/enterprises with multi-tasks like sorting, grading, packing and marketing</li> </ul>
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)

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

			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:	:	
<b>v.</b>	Important Cause:	:	
vi.	Production system:	:	Groundnut
vii.	Micro farming system:	:	Irrigated/Rainfed, medium land, upland
viii.	Technology for Testing:	:	
ix.	Existing Practice:	:	
х.	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	<b>Objective</b> (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

- a. Honey Bee rearing
- b. Small unit vermicomposting by tribals.
- c. Mushroom cultivation.
- d. 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	No. of Farmers						No. of	No. of SHC			
	Samples	SC		ST		Other		Total		l	Villages	distributed
		Μ	F	Μ	F	Μ	F	Μ	F	Т		
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
ТА	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