ACTION PLAN 2020-21,KVK,GANJAM-II

1. Name of the KVK:

Address	Telephone		E mail
Krishi Vigyan Kendra, Ganjam-II At: Golanthara; **P.O: Golanthara; Berhampur; Dist: Ganjam;** **Odisha – 761008**	**09937789325**		kvkganjam2.ouat@gmail.com **kvkganjam2@yahoo.com**

2.Name of host organization :

Address	Telephone		E mail
	Office	**FAX**	
Orissa University of Agriculture and Technology **Bhubaneswar -751003** **Orissa**			

3.Training programme to be organized (Dec 2021)

(a) Farmers and farmwomen

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Crop production	Nursery Management in rice	2	1day	Off	13.05.2021									50
Crop production	Improved package of practices of Ragi	1	1day	Off	29.05.2021									25
Crop production	SRI system of rice production	1	1 day	Off	09.062021									25
Natural Resource Management	Integrated Weed management in rice	2	1 day	Off	19.06.2021									25
Weed management	Weed management in maize	1	1 day	On	24.07.2021									25
Crop production	Maize pulse Intercropping	1	1 day	Off	12.08.2021									25
Crop production	Improved package of practices of pulse crop	2	1 day	Off	29.09.2021									25
Natural Resource Management	Integrated weed management in groundnut	1	1 day	Off	13.10.2021									25
Crop production	Improved package of practices of sunflower	1	1 day	On	24.11.20 & 25.11.20									25
Crop production	Improved package of practices of fodder crops	1	1 day	On	16.12.20& 17.12.20									25

Crop production	Improved package of practice of sesame	1	1 day	On	11.02.2021 & 12.02.2021									25
Export potential vegetables	Training on agro techniques in spinegourd, pointed gourd, bitter gourd	1	1 day	Off	28.05.2021									25
Production and Management technology	Cultivation of tuber crops	1	1 day	Off	25.06.2021									25
Off-season vegetables	Cultivation of, Cauliflower, Cabbage, Brocolli	1	1 day	Off	06.07.2021									
Yield increment	Training on scientific cultivation of Cowpea and Bean	1	1 day	Off	26.7.2021									25
Cultivation of Fruit	Cultivation of Papaya, Banana, Dragon fruit	1	1 day	Off	26.8.2021									25
Spice production	Scientific Cultivation Of Onion,Garlic,Chilli	1	1 day	Off	16.9.2021									25
Export potential vegetables	Scientific Cultivation Of Capsicum, Tomato	1	1 day	Off	29.9.2021									25
Yield increment	Training on improved package and practices of Beetle vine	1	1 day	Off	04.10.2021									25
Export potential of ornamental plants	Agrotechniques in Marigold, Tuberose ,Jasmine	1	1 day	Off	26.10.2021									25
Nursery raising	Nusery management for high value vegetable crops	1	1 day	Off	14.11.2021									25
Propagation techniques of Ornamental Plants	Agrotechniques of Rose Gerbera cultivation	1	1 day	Off	17.11.2021									25
Export potential fruits	Cutltivation of mango, Guava, Custardapple	1	1 day	Off	10.12.2021									25
Soil fertility management	Training on Soil fertility management	2	1 day	Off	08.07. 2021 25.10.2021									50
Integrated Nutrient Management	Training on INM in pulses	1	1 day	Off	29.10. 2021									25
Production and use of organic inputs	Training on Role and use of biofertilisers in vegetables	1	1 day	Off	30.07. 2021.									25
Integrated Nutrient Management	Training on INM in flower cultivation	1	1 day	Off	18.08. 2021.									25
Integrated Nutrient Management	Training on INM in solanaceous vegetables	1	1 day	Off	31.08. 2021									25
Use of micronutrient	Training on role and use of secondary and micronutrients in cole crops	1	1 day	Off	08.09. 2021									25
Nutrient Use Efficiency	Training on nutrient management in fruit crops	1	1 day	Off	22.07. 2021									25

Soil testing	Training on importance of soil testing and technique of soil sampling.	2	1 day	Off	27.05. 2021 09.11. 2021									50
Production and use of organic inputs	Production technology of vermicompost and its uses	2	1 day	Off	29.06. 2021 26.11. 2021									50
IPM	Borer pest management in bittergourd	1	1 day	off	03.06.2021									25
IDM	Blast disease management in ragi .	1	1 day	off	07.07.2021									25
IDM	Blast and sheath blight disease management rice.	1	1 day	off	29.07.2021									25
IDM	Disease management in betelvine	1	1 day	off	10.08.2021									25
IDM	Disease and pest management in sunflower .	1	1 day	off	06.09.2021									25
IDM	Wilt and rotting disease management in tomato.	1	1 day	off	14.09.2021									25
IDM	Stone weevil management in Mango.	1	1 day	off	05.10.2021									25
IDM	Shoot and fruit borer management in brinjal .	1	1 day	off	21.10.2021									25
IPM	Leaf curl disease management in chilli .	1	1 day	off	08.11.2021									25
IDM	IDM in groundnut .	1	1 day	off	11.11.2021									25
IPM	IPM in Marigold.	1	1 day	off	08.12.2021									25
IPM	Nursery disease management in rabi rice.	1	1 day	off	06.01.2022									25
Production and management	Importance of soil and water quality parameters in fish production	01	1 day	Off	11.05.21									25
Production and management	Fish seed conditioning and transportation	01	1 day	Off	28.05.2021									25
Production and management	Production and management of Natural food in Nursery Pond	01	1 day	Off	04.06.21									25
Production and management	Culture practices in community pond	01	1 day	Off	24.06.21									25
IFS	Pond based IFS	01	1 day	Off	8.07.21									25
Production and Management	Production of Fish Fingerlings	01	1 day	Off	29.07.21									25
Production and management	Production practices of Yearling production	01	1 day	Off	05.08.21									25
Production and management	Use of feed additives in carp culture	01	1 day	Off	19.08.21									25
Production and management	Feed Formulation and feeding management	01	1 day	Off	7.09.21									25
Production and management	Plankton Management in Grow-out pond culture	01	1 day	Off	22.09.21									25
Production and management	Control and eradication of algal blooms and weeds in fish culture	01	1 day	Off	04.10.21									25
Post-harvest management	Value addition and value added products from fish and shell fish	01	1day	Off	27.10.21									25
Production and	Species diversification in	01	1 day	Off	08.11.21									25

management	Aquaculture and its Importance													
Production and management	High input based Aquaculture Practicess	01	1 day	Off	23.11.21									25
Effective utilization of resources through agroforestry	Agro-forestry model and its importance on livelihoods	01	1 day	Off	27.08.2021									25
Institutional Development	Formation of Farmers Producer Organisation	01	1 day	Off	17.09.2021									25
Technology Transfer	Adoption of climate-resilient pracices for sustainable agriculture	01	1 day	Off	26.09.2021									25
Technology Transfer	Production led extension to market led extension	01	1 day	Off	23.11.2021									25
Technology Transfer	New dimension of extension approaches	01	1 day	Off	23.11.2021									25
Others	Collective marketing for higher income and profit	01	1 day	Off	14.12.2021									25

(b) Rural youths

Thematic area	**Title of Training**	**No.**	**Duration**	**Venue On/Off**	**Tentative Month**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
Natural Resource Management	Seed production in pulses	1	2days	Off	August									15
Crop production	SRI in fingermillet	1	2days	On	September									15
Crop production	Micro-irrigation field crops	1	2days	On	December									15
Natural Resource Management	Resource conservation Agriculture	1	2days	On	February									15
Commercial fruit production	Scientific cultivation of Papaya, Banana,Mango	1	2day	on	August									15
Commercial flower production	Cultivation of Rose, Gladioli,Gerbera	1	2day	on	October									15
Nursery Management of Horticulture crops	Raising good quality planting material for income Generation	1	2day	on	November									15
Protected cultivation of vegetable crops	Cultivation of high value vegetable under protected environment	1	2day	on	December									15
Production and use of organic inputs	Training on vermiculture and vermicomposting	2	4 day	On	August October									15
Production and use of organic inputs	Training on production of organic inputs	2	4 day	On	September December									15

Production & management	High input based Aquaculture practices (BIOFLOC)	1	2day	on	July									15
Production & management	Package and practices of Fingerling and Yearling production	1	2day	on	September									15
Production & management	Ornamental fish culture as an Income generating activity	1	2day	on	December									15
Post-harvest management	Value addition and value added product preparation	1	2day	on	December									15
IPM	Orchard management	1	2days	Off	August									15
IPM	Safe use of pesticide	1	2days	On	September									15
1PM	New generation pesticides	1	2days	On	December									15
1PM	IPM & IDM in groundnut	1	2days	On	February									15
Agri-preneurship Development	Agri-preneurship Development towards self sufficiency	1	2 days	On	November									15
Use of ICTs	Use of ICT (Information Communication Technology) materials in Agriculture	1	2 days	On	December									15

(c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Natural Resource Management	Crop Diversification	1	1day	On	February									10
Natural Resource Management	Crop Biofortification for food security	1	1day	On	March									10
Production and management	Urban gardening of horticultural crops	1	1 days	on	January									10
Precision farming	High-tech cultivation of flower crops for income Generation	1	1 days	on	January									10
INM	Integrated nutrient management for improving soil health and productivity	1	1 days	on	January									10
Production and use of organic inputs	organic farming for sustainable agriculture	1	1 days	on	January									10
Production and Management	Recent Advances in Aquaculture Practices	1	1 day	On	Jan									10
Production and Management	Tools for accessing soil, water and disease diagnosis and treatment	1	1 day	On	February									10
IPM and IDM	IPM and IDM in rice	1	1 days	on	January									10
IPM and IDM	IPM and IDM in cole crops	1	1 days	on	January									10
Training Need Identification	Training Need Assessment of Farmers towards sustainable development	1	1day	On	January									10

Value Chain	Value Chain analysis of major Agril. Commodities	1	1 day	On	February									10

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

Farmers and Farm women

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
I. Crop Production													
Weed Management	3												75
Resource Conservation Technologies	1												25
Cropping Systems													50
Crop Diversification	2												
Integrated Farming													
Water management	1												25
Seed production	3												80
Nursery management	1												40
Integrated Crop Management													
Fodder production	1												25
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	2										40	10	50
Production of low volume and high value crops													
Off-season vegetables	1										18	7	25
Nursery raising	1										20	5	25
Exotic vegetables like Broccoli													
Export potential vegetables	2										35	15	50
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		
		Other			SC			ST					
		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	1										20	5	25
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits	1										15	10	25
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	1										15	10	25
Propagation techniques of Ornamental Plants	1										16	9	25
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	1										20	5	25
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology	1										22	3	25
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													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management	2										40	10	50
Soil and Water Conservation													
Integrated Nutrient Management	3										60	15	75
Production and use of organic inputs	3										58	17	75
Management of Problematic soils													
Micro nutrient deficiency in crops	1										20	5	25
Nutrient Use Efficiency	1										20	5	25
Soil and Water Testing	2										40	10	50
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													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
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													
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	4										80	20	100
Integrated Disease Management	8										250	50	200
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL													
VIII. Fisheries													
Integrated fish farming	1												25
Carp breeding and hatchery management	1												25
Carp fry and fingerling rearing	2												50
Composite fish culture & fish disease	4												100
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	2												50
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes	1												25
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Fish processing and value addition	1												25
Biofloc	2												50
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 Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL	60												1500

Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production	2	30											30
Production of organic inputs	2	30											30
Planting material production	1	15											15
Vermi-culture	2	30											30
Sericulture													
Protected cultivation of vegetable crops	1	15											15
Commercial fruit production	1	15											15
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops	1	15											15
Training and pruning of orchards													
Value addition													
Orchard management by controlling pest and disease	1	15											15
Safe use of pesticide	1	15											15
New generation pesticides	1	15											15
IPM & IDM in groundnut	1	15											15
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries	1												15
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing	1												15
Small scale processing													
Post Harvest Technology	1												15
Tailoring and Stitching													
Rural Crafts													
Enterprise development	1												15
Others if any (ICT application in agriculture) Micro irrigation, resource conservation	2												30

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
agriculture													
TOTAL	20												300

Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Crop Diversification	1												10
Crop Biofortification for food security	1												10
Integrated Nutrient management	1												10
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology	2												20
IPM and IDM in rice	1												10
IPM and IDM in cole crops	1												10
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs	1												10
Gender mainstreaming through SHGs													
Crop intensification													
Production management	1												10
Others if any(crop Diversification)	1												10

TOTAL	10												100

4. Frontline demonstration to be conducted*

FLD-1(Agronomy)

Crop:Rice
Thrust Area:Weed manageement
Thematic Area: Weed manageement
Season:Kharif 2021
Farming Situation:Rainfed medium and low land (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
1	Rice, Pooja, MTU 1001	2ha	Applicatio of herbicideBispyribac sodium + Almix(metsulfuron methyl + chlorimuron- ethyl) on 25 DAT @ (20+4 g)/ha as post emergency	No of weeds per sqm, WCE(%), Dry biomass Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio	Herbicide	47980	57340									10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Integrated Weed management in rice	2	F/FW	1 day	Off									50
Field day	Field day on Demonstration of herbicide in Rice	2	F/FW,VAW,NGO members,krusimitra, Krusaksathietc	2day	Off									40
Group discussion	Group discussion		F/FW, Line departmet officials	2 days										
Literature distributio	Khetaphasala re samawitaghasaparichalana	1	F/FW											

FLD-2(Agronomy)

Crop:Ragi
Thrust Area:varietal replacement
Thematic Area: varietal replacement
Season:Kharif 2021
Farming Situation:Rainfed mediuland (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
1	Ragi Arjun	2ha	Demonstration of high yielding ragi variety Arjun Arjun :Duration of the variety	No. of tillers/plant, No. of fingers/plant, test	Ragi variety Arjun	37254	17658									10

			is 110 days and the yield potential 18-50 q/ha, moderately resistant to leaf, neck blast can tolerate dry spell of 10-12 days at vegetative and 6-8 days at reproductive stages	weight											

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	Improved package of practices of Ragi	1	F/FW	1 day	Off									25
	SRI in Ragi	1		2 days	On									
Field day	Field dayonRagi	2	F/FW,VAW,NGO members,krusimitra, Krusaksathietc	2day	Off									40
Group discussion	Group discussion		F/FW, Line departmet officials	2 days										
Literature distributio	SRI in Ragi	1	F/FW											

FLD-3(Agronomy)

Crop:Blackgram
Thrust Area:Varietal Replacement
Thematic Area:Varietal replacement
Season:Rabi 2021
Farming Situation:Irrigated medium land (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
1	Blackgram variety OBG 33(Sashi)	2ha	Cultivation of blackgram variety OBG 33(Sashi) (Duration: 75 days Potential yield: 8.4 q/ ha Adaptability: Rabi season and rainfed uplands during kharif in Odisha Yield Advantage : 13.5 % over Prasad Other characteristics: Moderately resistant to YMV, Anthracnose and Powdery mildew**)**	no of pods per plant, no of seeds per pod,test weight**,** Cost of intervention, additional income over additional investment, Seed Yield (q/ha), B:C ratio,	Blackgram variety OBG 33(Sashi)	57600	410000									10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Improved package of practices of pulse crop	1	F/FW	1 day	Off									25
Field day	Field day on Demonstration ofBlackgram variety OBG- 33(Sashi)	2	F/FW,VAW,NGO members,krusimitra, Krusaksathietc	2day	Off									40
Group discussion	Group discussion		F/FW, Line departmet officials	2 days										
Literature distributio	Unnata pranali re dalijatiyachasa	1	F/FW											

FLD-4(Agronomy)
Crop:Fodder

Thrust Area: Fodder production
Thematic Area:Fodder production
Season:Rabi 2021
Farming Situation:Irrigated up land (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
1	Fodder crops	2ha	Demonstration of high yielding fodder varieties for round the year production (.Cultivation of variety of fodder grasses Hybrid Napier, fodder maize , fodder cowpea) :	Green fodder yield/ha, Cuttings/Year Cost of intervention. B:C ratio	Fodder crops	21000	11000									10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Improved package of practices of fodder crops	1	F/FW	1 day	Off									25
Field day	Field day	2	F/FW,VAW,NGO members,krusimitra, Krusaksathietc	2day	Off									40
Group discussion	Group discussion		F/FW, Line departmet officials	2 days										
Literature distributio	Unnata pranali re Ghasachasa	1	F/FW											

FLD-5(Agronomy)
Crop:Sesame
Thrust Area:Varietal replacement
Thematic Area:Varietal Replacement
Season:Rabi 2021
Farming Situation:Irrigated up land (Rice-oilseed)

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	Sesame Smarak	2ha	Demonstration of high yielding sesame variety Smarak(OSC 560)	Plant height,no. of capsules per plant, no. of seeds/capsule, test weight Cost of intervention, additional income over additional investment,	Sesame seed variety Smarak	29687	18754									10

				Yield (q/ha), B:C ratio												

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Improved package of practices of sesame	1	F/FW	1 day	Off									25
Field day	Field day	2	F/FW,VAW,NGO members,krusimitra, Krusaksathietc	2 day	Off									40
Group discussion	Group discussion		F/FW, Line departmet officials	2 days										
Literature distributio	Rasi chasa	1												

FLD-6 (Horticulture) Title: Demonstration on cowpea variety- Kashi Kanchan
Crop:cowpea
Thrust Area: varietal substitution
Thematic Area: varietal substitution
Season: Kharif 2021
Farming Situation:Rainfed medium land (vegetable-vegetable cropping system)

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

.	Enterprises	(ha)/ Unit (No.)	demonstration	relation to technology demonstrated	Inputs			M	F	M	F	M	F	M	F	T
	Cowpea **(Kashi Kanchan)**	0.4ha	Cultivation of variety Kasi Kanchan Kasi Kanchan variety is bushy (height50-60 cm), photo insensitive, early flowering (40-45days after sowing) early picking (50-55 days after sowing and resistant to YMV, bushy, green fleshy pod, suitable for both Kharif and Rabi, yield 150-175 q/ha	YMV incidence (%), Pod length (cm), No. of pods/plant	seed	70,000	68,000									10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Improved package of practices of Cowpea and Bean	1	25	1day	off									25
Field day	Field day on Demonstration on cowpea variety- Kashi Kanchan	2	F/FW,VAW,NGO members,krusimitra, Krusaksathietc	2day	off									40

FLD-7 (Horticulture) Title:Demonstration of tuberose cultivar Arka Prajawal

Crop: **Tuberose**
Thrust Area: varietal substitution
Thematic Area: varietal substitution
Season: Kharif 2021
Farming Situation:Irrigated medium land(floriculture-floriculturecropping system)

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
	Tuberose (Arka	0.4ha	Cultivation of variety Arka	length of spike, No. of spikes/plant,	Var. Arka prajwal	230000	210000									10

	prajwal)		Prajwal:	No. of floret/spike,												

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	Improved package of practices of tomato	1	25	1day	off									25
Field day	Field day on Demonstration of tuberose cultivar Arka Prajawal	2	F/FW,VAW,NGO members,krusimitra, Krusaksathietc	2 day	off									40

FLD-8 (Horticulture) Title : Demonstration of Brinjal variety- Swarna Shyamali for higher yield
Crop:**Brinjal**
Thrust Area: varietal substitution
Thematic Area: varietal substitution
Season: Rabi 2021-22
Farming Situation:Irrigated medium land(Rice-vegetable cropping system)

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

.	Enterprises	(ha)/ Unit (No.)	demonstration	relation to technology demonstrated	Inputs			M	F	M	F	M	F	M	F	T
	Brinjal variety- Swarna Shyamli	1 ha	Demonstration on Brinjal variety- Swarna Shyamli Medium size (250 g),fruit round, attractive green colour with white stripes. Resistant to wilt	yield/plant, fruit weight, wilting %	Brinjal variety- Swarna Shyamli	60000	55000									10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Improved package of practices of Brinjal	1	25	1day	off									25
Field day	Demonstration on Brinjal	2	F/FW,VAW,NGO	2 day	off									40

	variety-Swarna Shyamli		members,krusimitra, Krusaksathietc											

FLD-9 (Horticulture) Title: Demonstraion of Foliar Spray of Micronurient in Marigold

Crop:Marigold
Thrust Area: INM
Thematic Area: Nutrient management
Season: Rabi 2021-2022
Farming Situation:Irrigated medium land (floriculture-floriculturecropping system)

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
	Marigold (Pusa Basanti)	0.4ha	Foliar spray of 0.5% Zinc sulphate sprayed at 10th and 30th day after transplanting of seedlings	Plant height, Days for first bud initiation no. of flower/plant, flower diameter, flower yield	Seedling,Zinc sulphate											10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Improved package of practices of Marigold	1	25	1day	off									25
Field day	Field day on Demonstraion of Foliar Spray of Micronurient in Marigold	2	F/FW,VAW,NGO members,Krusimitra, Krusaksathietc	2day	off									40

FLD-10 (Horticulture) Title:Demonstration on long shelf-life and high yielding tomato variety

Crop:Tomato

Thrust Area: varietal substitution

Thematic Area: varietal substitution

Season: Rabi 2021-2022

Farming Situation:Irrigated medium land(Rice-Vegetable cropping system)

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

	Tomato **(*Arka rakshak*)**	1 ha	Cultivation of tomato variety- Arka Rakshak	No. of fruits/plant, Shelf life (days), Disease incidence%	Tomato seedlings Var. Arka Rakshak	125000	120000									10

Extension and Training activities under FLD:

Activity	**Title of Activity**	**No.**	**Clientele**	**Duration**	**Venue** **On/Off**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
Training	Scientific Cultivation Of Tomato	1	25	1day	off									25
Field Day	Demonstration on long shelf-life and high yielding tomato variety	2	F/FW,VAW,NGO members,Krusimitra, Krusaksathietc	2day	off									40

FLD-11(Soil Science) Demonstration on INM in tuberose
Crop:**Tuberose**
Thrust Area: INM
Thematic Area: Nutrient management
Season: Kharif 2021
Farming Situation:Irrigated medium land (floriculture-floriculturecropping system)

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
	Tube rose	0.4ha	Application of 75% STBF +FYM 1kg/m^2 + Vermicompost (300g/m^2)+2g /plant Azospirillum + 2g/plant PSB	No.of florets/spike, Soil testing values before and after crop	Biofertilisers Vermicompost	235000	210000									10

Extension and Training activities under FLD:

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

Training	INM in flower cultivation	1	25	1day	off									25
Field day	Field day on Demonstration on INM in tuberose	2	F/FW,VAW,NGO members,Krusimitra, Krusaksathietc	2day	off									40

FLD-12 (Soil Science): Demonstration on consortia biofertiliser application in brinjal
Crop:**Brinjal**

Thrust Area: INM
Thematic Area: Nutrient management
Season: Kharif, 2021

Farming Situation:Rainfed medium land(Vegetable-Vegetable cropping system)

Sl. No.	**Crop & variety / Enterprises**	**Proposed Area (ha)/ Unit (No.)**	**Technology package for demonstration**	**Parameter (Data) in relation to technology demonstrated**	**Cost of Cultivation (Rs.)**			**No. of farmers / demonstration**								
								SC		**ST**		**Other**		**Total**		
					Name of Inputs	**Demo**	**Local**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
	Brinjal	1ha	STBF+ inoculation of OUAT consortia bio-fertilisers to pre-limed (5%) 300 Kg FYM/VC(1:25) incubated for 7 days at 30% moisture and applied in the	No. Fruits/plant, fruit wt. Soil testing values before and after crop	OUAT microbial consortia	60000	55000									10

			rhizosphere on the day of planting													

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	Role and uses of bio fertilisers in vegetables	1	25	1day	off									25
Field day	Demonstration on consortia biofertiliser application in brinjal	2	F/FW,VAW,NGO members,Krusimitra, Krusaksathietc	2 day	off									40

FLD-13(Soil Science): Demonstration of integrated nutrient management on yield enhancement of green gram
Crop:Green gram

Thrust Area: INM

Thematic Area: Nutrient management
Season: Rabi 2021-2022
Farming Situation:Irrigated medium land(Rice-pulse cropping system)

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
	Green gram	2ha	STBF+ inoculation of OUAT consortia bio-fertilisers to pre-limed(5%) 300 Kg FYM/VC(1:25) incubated for 7 days at 30% moisture and applied in the rhizosphere on the day of planting	Soil parameter before and application No. of fruit per plant, Fruit wt	Consortia bio-fertilisers Vermicompost	22000	27000									10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	INM in pulse crops	1	25	1day	off									25

Field day	Demonstration of integrated nutrient management on yield enhancement of green gram	2	F/FW,VAW,NGO members,Krusimitra, Krusaksathietc	2day	off									40

FLD-14 (Soil Science) Demonstration on integrated nutrient management in chilli

Crop:**Chilli**

Thrust Area: INM
Thematic Area: Nutrient management
Season: Rabi 2021-2022
Farming Situation:Irrigated medium land**,(Rice- vegetable/ vegetable- vegetable cropping system)**

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
	Chilli	1ha	Use of STBF based NPK + biofertilizer (Azotobactor, Azosprillum& PSB @ each	Soil parameter before and after crop, No. of fruit per plant,	Biofertilisers Vermicompost	55000	47000									5

			4kg/ha)+ vermicompost @5t/ha increases the dry chilli by 8.5% over soil test based fertilizer application	Avg. fruit wt.												

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	Training on INM in solanaceous vegetables	1	25	1day	off									25
Field day	Field day on Demonstration on integrated nutrient management in chilli	2	F/FW,VAW,NGO members,Krusimitra, Krusaksathietc	2day	off									40

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

FLD-15 (Soil Science) Demonstration on application of Sulphur and Boron for curd quality and higher yield in cauliflower

Crop:**Cauliflower**

Thrust Area: INM
Thematic Area: Nutrient management
Season: Rabi 2021-2022
Farming Situation:Irrigated medium land**,Rice-vegetable/vegetable- vegetable cropping system**

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
	Cauliflower	1ha	STBF (NPK) + sulphur @ 30 kg ha^{-1} + 1 kg ha^{-1} boron as borax as basal application	Curd weight (g), soil test value (before sowing and after harvesting)	Elemental sulphur and borax	125000	119000									10

Extension and Training activities under FLD:

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

Training	Training on role and use of secondary and micronutrients in cole crops	1	25	1day	off									25
Field day	Demonstration on application of Sulphur and Boron for curd quality and higher yield in cauliflower	2	F/FW,VAW,NGO members,Krusimitra, Krusaksathietc	1day	off									40

FLD-16(Plant protection) Demonstration on chemical management of BPH In Rice
Crop:Rice

Thrust Area:Pest management
Thematic Area: IPM
Season: Kharif 2021
Farming Situation:**Rainfed low Land**(Rice-pulse cropping system)

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	2 ha	Skip row planting (after 3 m), installation of	**No .of insect/hill, % of infestation**												

			spider trap @ 25/ ha. Need based alternate spraying (based on ETL) of Flonicamid 175 g/ ha and pymetrozin 50WG @ 250 gm/ha.with tank mix of neem oil													

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	Training on **chemical management of BPH In Rice**	1	Farmer &farmwomen	1day	off									25
Field day	Field day **on chemical management of BPH In Rice**	2	F/FW,VAW,NGO members,Krusimitra, Krusaksathietc	2day	off									40

FLD-17**(Plant protection)Demonstration on management of tobacco caterpillar in Sunflower**

Crop:**Sunflower**

Thrust Area:Disease Management
Thematic Area: IPM
Season: Rabi 2021-2022
Farming Situation:**Irrigated medium land**(Rice-Oilseed cropping system)

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	Sunflower	1 ha	**Spray Emamectin Benzoate 5% S.G @ 300 gm /ha , after 12 days sprayflubendiamide 39.35 SC @ 125 ml/ ha**	**No .of damaged plant/m2**												

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	Training on **tobacco caterpillar in Sunflower**	1	Farmer &farmwomen	1day	off									25
Field day	Field day **on tobacco caterpillar in**	2	F/FW,VAW,NGO members,Krusimitra, Krusaksathietc	2day	off									40

	Sunflower													

FLD-18**(Plant protection)Demonstration of tea mosquito bug management in cashewnut**

Crop:**Cashewnut**

Thrust Area:Pest management
Thematic Area: IPM
Season: Rabi 2021-2022
Farming Situation:Irrigated medium land(Fruit-Fruit cropping system)

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	**Cashewnut**	2 ha	**Need based application of Lamda cyhalothrin @ 2 ml/lt. at new flushing stage, Malathion @ 2 ml/lt at flowering &Profenophos @ 2 ml/lt at fruiting stage**	**Affected Leaf ,No. of TM Bug/twig,Affected fruits**												

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	**Tea**	1	Farmer	1day	off									25

	mosquito bug management in cashewnut		&farmwomen											
Field day	Field day**on tea mosquito bug management in cashewnut**	2	F/FW,VAW,NGO members,krusimitra, Krusaksathietc	2day	off									40

FLD-19**(Plant protection)Demonstration of Bacterial Leaf Blight management in Paddy**

Crop:**Rice**

Thrust Area:Disease management
Thematic Area: IPM
Season: Kharif 2021
Farming Situation:Rainfed medium land**(Rice-Pulse cropping system)**

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	Paddy	2 ha	Application of Copper oxy chloride 88% W/W @ 3gm/lt of water + Plantomycin @	**Diseased leave %,**												

			1gm/lt of water 2-3 times 10days interval at initiation of symptom add extra potash fert @ 6-7 kg/ ha													

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	**Leaf Blight management in Paddy**	1	Farmer &farmwomen	1day	off									25
Field day	Field day**on Bacterial Leaf Blight management in Paddy**	2	F/FW,VAW,NGO members,Krusimitra, Krusaksathietc	1day	off									40

FLD-20**(Plant protection)Demonstration on management of Diamond back moth in Cauliflower**

Crop:**Cauliflower**

Thrust Area:pest management
Thematic Area: IPM
Season: Rabi 2021-2022
Farming Situation:Irrigated medium land**, Rice-vegetable/vegetable- vegetable cropping system**

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

	Enterprises	(ha)/Unit (No.)	demonstration	relation to technology demonstrated	Inputs			M	F	M	F	M	F	M	F	T
1	**Cauliflower**	1 ha	spray of Azadiractin 5% @200ml/ha at the time of flowering, Spraying of Novaluron 10 % EC + Emamectin benzoate 5% EC @ 200g/ha twice at 10 days interval	No. of larva/head,Damaged head%												

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	**management of Diamond back moth in Cauliflower**	1	Farmer &farmwomen	1day	off									25
Field day	Field day **on management of Diamond back moth in Cauliflower**	2	F/FW,VAW,NGO members,krusimitra, Krusaksathietc	2day	off									40

FLD-21(Fishery Sc.)

Crop: Fish
Thrust Area: Mixed carp culture

Thematic Area: Production and Management
Season: Year Round 2021-22
Farming Situation: Rainfed& Irrigated/Canal fed

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
01	FW Fish Culture (IMC & Exotic carps)	10 Nos	**Stocking density :-** Yearling @ 5,000 Nos./ha **Stocking ratio :-** Surface : Column : Bottom feeder :: 3 : 4 : 3 **Species composition:-** Surface feeder (30%): Catla (ZP. Feeder); Column feeder (40%)- Rohu (Phytopkt. feeder)- 25-30% & Grass carp (Macro-vegetation feeder)- 10-15%; Bottom feeder (30%)- Mrigal (Plant origin feeder)- 10-20% & Common carp (Animal origin feeder)- 10-20% Soil & Water quality mgmt..- Application of suitable Aquifers	Yield Parameter-Avg. Length, Avg. Wt. SGR Water Quality Parameter-pH, DO, Plankton,Alkalinity Cost of cultivation, Yield, B:C ratio Profitability Index	IMC Yearlings@5000 Nos./ha Soil & water test based application of Aquafiers (Lime, Antiparasiticidal and antibacterial agents)	App. 1,40,000/- per ha	App. 1,05,000/- per ha									10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Culture practices in community tank	01	Farmers and Farm Women	1 day	Off									25
	Importance of Soil and water quality parameters in fish production	01		1 day	Off									25
Field day	Field day	02	FLD beneficiary, Line dept. Officers, Local leaders and Farmers	2day	Off									40
Diagnostic visit	FLD on Yearling stocking for yield enhancement in community pond	05	Farmers	5 day	Off									
Method demonstration	Yearling identification and stocking. Testing of water parameters. Feeding	05	FLD beneficiary											

	and dose calculation of medicine and chemicals													

FLD-22(Fishery Sc.)

Crop: Fish
Thrust Area: Fish Feed Management
Thematic Area: Production and Management
Season: Year Round 2021-22
Farming Situation: Rain-fed & Irrigated/Canal fed

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
01	Fish Feed Management	05 Nos	Feeding floating fish feed (CP-24/4mm) @ 5-2% body wt. twice daily with equal installments. Maintenance of water quality parameters at Optimum level	**Yield Parameter**-Avg. Wt. & Length, % of Survivability, FCR **Water Quality Parameter**- Plankton, pH, DO_2, Alkalinity, Hardness Cost of cultivation, Yield, B:C ratio Profitability Index	Floating fish Feed	App. 150000/- per ha	App. 1,00,000/- per ha										05

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 and management of Natural food in Nursery Pond	01	Farmers and Farm Women	1 day	Off									25

	Fish Feed management in Pisciculture	01	Farmers and Farm Women	1 day	Off									25
Field day	Field day	02	FLD beneficiary, Line dept. Officers, Local leaders and Farmers	2 day	Off									40
Diagnostic visit		05	Farmers	5 day	Off									
Method demonstration	Testing of water parameters. Feeding and dose calculation of medicine and chemicals	05	FLD beneficiary											

FLD-23(Fishery Sc.)

Crop: Fish
Thrust Area: Diversified Aquaculture
Thematic Area: Production and Management
Season: Year Round 2021-22
Farming Situation: Rainfed& Irrigated/Canal fed

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
01	IMC and Amur Carp	10	Stocking density-7,500 fingerlings/ha Stocking ratio Catla: Rohu : Mrigal:Amur carp :: 30:40:10:20Soil and water test based Aquafer application for pond management. Balanced ration feeding as per the recommended dose.	Yield Parameter (Fish)-Avg. Body Wt., % of Survivability Water Quality Parameter-Plankton, pH, DO_2, Alkalinity, Hardness. Cost of cultivation, Additional return, , B:C ratio Profitability Index	Amur carp Fingerlings	App. 1,20,000/- per ha	App. 195,000/- per ha									10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Diversified Aquaculture	01	Farmers and Farm Women	1 day	Off									25
	Soil and Water quality management	01		1 day	Off									25

	in Pisciculture													
Field day	Field day	02	FLD beneficiary, Line dept. Officers, Local leaders &Farmers	2 day	Off									40
Diagnostic visit		05	Farmers	5 day	Off									
Method demonstration	Testing of water parameters. Feeding and dose calculation of medicine and chemicals	05	FLD beneficiary											

FLD-24(Fishery Sc.)

Crop: Fish (marine)
Thrust Area: Minimisation of Post harvest loss
Thematic Area: Post-harvest management
Season: Rabi 2021-22
Farming Situation:

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
01	Marine fish	10 Nos	The insulated bag is made of three layers viz., an outer water proof covering, a middle insulation foam layer and an inner plastic lining.Height 20 inch x 16 inch diameter; Circumference 52 inches Fish kept along with ice (1:1 ratio) preserves the quality of iced-fish for a period of 6 hours.	TPC (Bacterial load) Temperature, Organoleptic quality, TVBN, TPC, B:C ratio	Insulated Fish Bag	2500.00 per bag	-									10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Post harvest loss and its corrective measures	01	Farmers and Farm Women	1 day	Off									25
Field day	Field day	02	FLD beneficiary, Line dept. Officers, Local leaders and Farmers	2 day	Off									40

Diagnostic visit	FLD on Demonstration on Use of Insulated fish bag to preserve quality of Fish	05	Farmers	5 day	Off									
Method demonstration	Drying process, Preparation of preservatives and storage	05	FLD beneficiary											

FLD-25 (Fishery Sc.)

Crop: Fresh Water Pisciculture
Thrust Area:Fish Seed Production
Thematic Area: Production Management
Season: Year Round
Farming Situation:Rainfed/Irrigated Perineal

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
	Fish (IMC)	05/0.4ha	Fry SD: 2.0L/ha; Feeding with DORB@2% body wt with Occasional feeding with GNOC Powder	**Yield Parameter**-Avg. Wt. & Length, % of Survivability **Water Quality Parameter**- Plankton, pH, DO_2, Alkalinity, Hardness Economics	Fry, DORB Suitable water Aquafers	1,10,000/Ac	-									05

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	Package and Practices of yearling production	02	Farmers and Farm Women / Rural Youths	1 day 2 day	Off On									25 15
Field day	Field day	02	FLD beneficiary, Line dept. Officers, Local leaders and Farmers	2 day	Off									40
Diagnostic visit		05	Farmers	5 day	Off									
Method demonstration	Pre and Post stocking Practicess	05	FLD beneficiary											

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

FLD-26(Agriculture Extension) : Demonstration of ICT tools for technology transfer.
Crop: Rice
Thrust Area:Use of ICT tools
Thematic Area: Technology Transfer
Season: Kharif
Farming Situation:Rainfed, Rice-fellow

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Rice	0.4ha or less (each farmer)	Effectiveness of ICT tools for technology transfer	Horizontal spread, adoptability and % of knowledge gain and yield	ICT materials	7000	-									25

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	Use of ICT tools for rice production	01	Farmers and Farm Women	1 day	Off									25
Field day	Field day	02	FLD beneficiary, Line dept. Officers, Local leaders and Farmers, Including 2 min. short video clip	1 day	Off									25
Diagnostic field visit		04	Farmers	4day	Off									

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

FLD-26 (Agriculture Extension): Demonstration of marketing channel for rabi chilli.
Crop:Chilli
Thrust Area:Marketing of rabi Chilli
Thematic Area: Use of marketing channel for rabi Chilli
Season: Rabi
Farming Situation:Irrigated, Medium land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Chilli	0.4 ha or less (each farmer)	Use of marketing channel	• No ofmarketing channel used • Current market infrastructure • Comparative price of chilli from producer to consumer • Current transport & storage • Net return of farmer & traders	Market survey	7000	-									25

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	Use of marketing channel for selling of chilli	01	Farmers and Farm Women	1 day	Off									25
Field day	Field day	02	FLD beneficiary, Line dept. Officers, Local	1 day	Off									25

			leaders and Farmers, Including 2 min. short video clip											
Diagnostic visit		05	Farmers	5 day	Off									

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

Name of the Crop / Enterprise	Variety / Type	Period From…… to ……..	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (No. /quintal)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Tomato	ArkaRakshak	April 2021 to March 2022		seedling	12000			
Chilli	Arka harita,Arka meghna	April 2021 to March 2022		seedling	20000			
Brinjal	Swarna Shyamali	April 2021 to March 2022		seedling	12000			
Papaya	Sapna F1	April 2021 to March 2022		seedling	1000			
Drumstick	Bhagya PKM-2	April 2021 to March 2022		seedling	1000			
Vermicompost		April 2021 to March 2022		Vermicompost	40quintals			
Earthworm		April 2021 to March 2022		*Eisenia foetida*	20kg	50,000.00	90,000.00	40,000.00

Ornamental fish	Live bearer/Egg layer	June2021to March2022	120ft^2	Juvenile & Adult	10,000 Nos	18,000.00	30,000.00	12,000.00

b) Village Seed Production Programme

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

3. Extension Activities

Sl. No.	Activities/ Sub-activities	No. of activities proposed	Farmers				Extension Officials			Total		
			M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day											
2.	KisanMela											
3.	KisanGhosthi											
4.	Exhibition											
5.	Film Show											
6.	Method Demonstrations											
7.	Farmers Seminar											
8.	Workshop											
9.	Group meetings											
10.	Lectures delivered as resource persons											
11.	Advisory Services											
12.	Scientific visit to farmers field											
13.	Farmers visit to KVK											
14.	Diagnostic visits											
15.	Exposure visits											
16.	Ex-trainees Sammelan											

17.	Soil health Camp											
18.	Animal Health Camp											
19.	Agri mobile clinic											
20.	Soil test campaigns											
21.	Farm Science Club Conveners meet											
22.	Self Help Group Conveners meetings											
23.	MahilaMandals Conveners meetings											
24.	Celebration of important days (specify)											
25.	Sankalp Se Siddhi											
26.	Swatchta Hi Sewa											
27.	Mahila Kisan Diwas											
28.	Any Other (Specify)											
	Total											

4. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2020)	Amount proposed to be invested during 2021	Expected Return

5. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)

6. On-farm trials to be conducted*

OFT-1 (AGRONOMY)

i.	**Season:**	Kharif 2021
ii.	**Title of the OFT:**	Assessment of Biofortified rice varieties
iii.	**Thematic Area:**	Varietal evaluation
iv.	**Problem diagnosed:**	Scope for nutritional security through use of biofortified varieties
v.	**Important Cause:**	Low yield
vi.	**Production system:**	Rice-pulse
vii.	**Micro farming system:**	Rain fed medium-lowland
viii.	**Technology for Testing:**	Assessment of Biofortified rice varieties
ix.	**Existing Practice:**	Lalat
x.	**Hypothesis:**	TO3 may perform better
xi.	**Objective(s):**	To evaluate the potential of the technology options for more yield To meet the nutritional security
xii.	**Treatments:**	
	Farmers Practice (FP):	Lalat
	Technology option-I (TO-I):	**CRDHAN310:**Medium duration (120-125 days), semi-dwarf plant type (110 cm) with medium slender and good grain quality. It is suitable for irrigated and favorable shallow rainfed areas. National average of grain yield is 4.5 t ha-1 and it contains average 10.2% protein in polished rice.
	Technology option-II (TO-II):	**CR DHAN 311**:Medium duration(120-125 days),semi dwarf plant (110cm),medium slender, good grain quality, high protein rice 10.1% protein and moderately high level of Zn content(20ppm) in polished rice.National average of grain yield is 4.3t/ha. In Odisha grain yield 5.5 t/ha.
xiii.	**Critical Inputs:**	Rice variety CRDHAN310 and CR DHAN 311
xiv.	**Unit Size:**	1ha
xv.	**No of Replications:**	7
xvi.	**Unit Cost:**	800
xvii.	**Total Cost:**	5600
xviii.	**Monitoring Indicator:**	Effective panicles/m2, No of filled grains /Panicle, 1000 grain weight, protein content,Yield/ha ,B:C ratio
xix.	**Source of Technology**	NRRI, CUTTACK , 2019

	(ICAR/ AICRP/ SAU/ Other, please specify):	

OFT-2(AGRONOMY)

i.	**Season:**	Rabi 2021-22
ii.	**Title of the OFT:**	Assessment on chemical weed management in Greengram
iii.	**Thematic Area:**	Weed management
iv.	**Problem diagnosed:**	Low yield due to severe weed infestation. Huge labour scarcity during peak time and high cost with more time consumed in manual weeding
v.	**Important Cause:**	high cost with more time consumed in manual weeding
vi.	**Production system:**	Rice-pulse
vii.	**Micro farming system:**	Irrigated medium land, rice-greengram
viii.	**Technology for Testing:**	herbicide evaluation
ix.	**Existing Practice:**	no use of herbicides
x.	**Hypothesis:**	TO-II may perform better in reducing weed density
xi.	**Objective(s):**	To evaluate the potentialof the two technology options in reducing weed density To reduce cost of cultivation due to manual weeding
xii.	**Treatments:**	
	Farmers Practice (FP):	No use of herbicides
	Technology option-I (TO-I)	Pendimethalin 30 % EC @ 1kg/ha at 3 DAS as pre emergence
	Technology option-II (TO-II)	Pendimethalin 30% EC+ Imazethapyr 2%EC premix @1.00 kg a.i/ha at 2DAS as pre emergence
xiii.	**Critical Inputs:**	Herbicides
xiv.	**Unit Size:**	1 ha
xv.	**No of Replications:**	7
xvi.	**Unit Cost:**	1000
xvii.	**Total Cost:**	7000
xviii.	**Monitoring Indicator:**	Weed density per sqm, dry biomass weight ,WCE(%), WEED INDEX, no of pods per plant
xix.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	OUAT 2011, OUAT 2015-16

OFT-3 (Horticulture)

I.	**Season:**	Kharif, 2021
II.	**Title of the OFT:**	Assessment of drumstick varieties for higher yield
III.	**Thematic Area:**	varietal substitution
IV.	**Problem diagnosed:**	Low yield
V.	**Important Cause:**	Due to cultivation of old existing varities
VI.	**Production system:**	Vegetable-Vegetable cropping system
VII.	**Micro farming system:**	Irrigated Upland
VIII.	**Technology for Testing:**	Assessment of drumstick varieties
IX.	**Existing Practice:**	Cultivation of Local cultivar
X.	**Hypothesis:**	By use of new varieties of **drumstick** the productivity will increase
XI.	**Objective(s):**	To increase productivity
XII.	**Treatments:**	
	Farmers Practice (FP):	Cultivation of old existing varities PKM-1
	Technology option-I (TO-I)	Cultivation of Drumstick variety Bhagya
	Technology option-II (TO-II)	Cultivation of Drumstick variety PKM-2
XIII.	**Critical Inputs:**	Drumstick seedlings
XIV.	**Unit Size:**	0.4ha
XV.	**No of Replications:**	7
XVI.	**Unit Cost:**	**1500**
XVII.	**Total Cost:**	**10500**
XVIII.	**Monitoring Indicator:**	**No.of fruit /plant, yield, B:C ratio**
XIX.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	**UHS,Bagalkot , 2014 TNAU, Coimbatore,2013**

OFT-4 (Horticulture)

I.	**Season:**	Rabi 2021-22
II.	**Title of the OFT:**	Assessment of chilli cultivars for higher yield
III.	**Thematic Area:**	varietal substitution
IV.	**Problem diagnosed:**	Low productivity and multiple disease incidence
V.	**Important Cause:**	Low yielding from farmers, cultivated variety ,jawlamukhi
VI.	**Production system:**	Rice-vegetable cropping system **.**
VII.	**Micro farming system:**	Rabi, irrigated-medium land
VIII.	**Technology for Testing:**	Assessment of chilli cultivars for higher yield
IX.	**Existing Practice:**	Cultivation of low yielding variety
X.	**Hypothesis:**	By use of new varieties of Chilli which are tolerant to multiple disease the productivity will increase.
XI.	**Objective(s):**	To increase productivity
XII.	**Treatments:**	
	Farmers Practice (FP):	Cultivation of Chili variety Jawla mukhi
	Technology option-I (TO-I)	Cultivation of chilli variety Arka Meghna
	Technology option-II (TO-II)	Cultivation of chilli variety Arka Harita
XIII.	**Critical Inputs:**	Chilli seedling
XIV.	**Unit Size:**	0.4ha
XV.	**No of Replications:**	**7**
XVI.	**Unit Cost:**	2200
XVII.	**Total Cost:**	154000
XVIII.	**Monitoring Indicator:**	yield, B:C ratio
XIX.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	IIHR, Bangalore,2014

OFT-5 (Soil Sc.)

I.	**Season:**	Kharif 2021-22
II.	**Title of the OFT:**	**Assessment of integrated nutrient management on growth and yield of papaya**
III.	**Thematic Area:**	INM
IV.	**Problem diagnosed:**	Low fruit yield due to imbalanced use of nutrients
V.	**Important Cause:**	Imbalance use of nutrient
VI.	**Production system:**	vegetable-vegetable cropping system
VII.	**Micro farming system:**	Kharif, irrigated-medium land.
VIII.	**Technology for Testing:**	Assessment of integrated nutrient management on growth and yield of papaya
IX.	**Existing Practice:**	Application of chemical fertilizer NPK (200:200:200 g/plant)+FYM @1kg/plant
X.	**Hypothesis:**	Application of organic sources of nutrients and biofertilisers enhance fertilizer use efficiency with apart from nutrient supply and availability and helps in maintaining long-term soil fertility and productivity of crops
XI.	**Objective(s):**	To increase productivity of the Papaya
XII.	**Treatments:**	
	Farmers Practice (FP):	Application of chemical fertilizer NPK (200:200:200 g/plant)+FYM @1kg/plant
	Technology option-I (TO-I)	100% STBF (NPK) + FYM@ 20 kg/plant + Azotobacter@20g/plant +PSB@20g/plant
	Technology option-II (TO-II)	75% STBF(NPK)+ Azotobacter @100g/plant + PSB@ 100g/plant + Vermicompost @2kg/plant
XIII.	**Critical Inputs:**	**Biofertiliser, Vermicompost**
XIV.	**Unit Size:**	**0.4ha**
XV.	**No of Replications:**	**7**
XVI.	**Unit Cost:**	**3000**

XVII.	**Total Cost:**	**21000**
XVIII.	**Monitoring Indicator:**	**Yield, B:C ratio**
XIX.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	CSAUAT, Kanpur , 2020, N.D. University of Agriculture and Technology, Kumarganj, FAIZABAD, 2014

OFT-6 (Soil Science)

I.	**Season:**	Rabi, 2021-22
II.	**Title of the OFT:**	**Assessment of integrated nutrient management in betel vine**
III.	**Thematic Area:**	INM
IV.	**Problem diagnosed:**	Low leaf quality and yield due to poor nutrient management
V.	**Important Cause:**	Imbalance nutrient management
VI.	**Production system:**	rice-pulse cropping system
VII.	**Micro farming system:**	Irrigated, upland (betel vine round the year)
VIII.	**Technology for Testing:**	Assessment of integrated nutrient management in betel vine
IX.	**Existing Practice:**	Application of N-P_2O_5-K_2O (100:50:50) + Mustard Oil Cake (MOC) @ 3 q /ha
X.	**Hypothesis:**	VC is an excellent nutrient reach organic manure helps in balanced fertilization of betel vine. Biofertlizers supplement chemical fertlizers for meeting the integrated nutrient demand of betel vine. . They result in increased mineral and water uptake, root development, vegetative growth and nitrogen fixation.
XI.	**Objective(s):**	To increase leaf quality and yield
XII.	**Treatments:**	
	Farmers Practice (FP):	Application of N-P_2O_5-K_2O (100:50:50) + Mustard Oil Cake (MOC) @ 3 q /ha
	Technology option-I (TO-I)	STBF (NPK) + MOC @ 1.5 t/ha + Vermicompost (VC) @ 10 t/ha
	Technology option-II (TO-II)	STBF (50%) +MOC @ 1.5 t/ha + Vermicompost (VC) @ 10 t/ha + consortia of azotobacter, azosprillum and PSB @ 4 kg/ha inoculated to 300kg VC, mixed with 15 kg lime incubated at 30 % moisture for a week and applied in the rhizosphere.

XIII.	**Critical Inputs:**	Vermicompost, Biofertilisers, Mustard oil cake
XIV.	**Unit Size:**	**0.4ha**
XV.	**No of Replications:**	**7**
XVI.	**Unit Cost:**	**4000**
XVII.	**Total Cost:**	**28000**
XVIII.	**Monitoring Indicator:**	**Yield, B:C ratio**
XIX.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	AICRP on MAP and betel vine, 2012-13

Plant Protection

OFT-7 (Plant Protection)

i.	**Season:**	**Kharif – 2021-22**
ii.	**Title of the OFT:**	Assessment of Integrated disease management practices for Collar rot in Beetle vine
iii.	**Thematic Area:**	IDM
iv.	**Problem diagnosed:**	Rotting disease, poor lusture. Low profitability.
v.	**Important Cause:**	Rotting disease
vi.	**Production system:**	Beetle vine
vii.	**Micro farming system:**	Irrigated medium land
viii.	**Technology for Testing:**	T O_1: Planting material treatment with *Trichoderma viridae*@ 10 gm/lt at the time of sowing and need base alternative spraying of chlorothalonil 75% wp @ 1.5 gm/lt and *Trichoderma viridae*@ 10 gm/lt at 15 days interval T O_2:Planting material treatment with Tebuconazole @ 1.5 gm/lt followed by furrow application o*f T. viride* @ 4kg enriched in 50kg FYM/ha as basal application, then broadcasting of *T. viride* @ 4kg enriched in 250kg FYM/ha at 40 DAS & two sprays of Tebuconazole @ 1gm/lt starting from initiation of foliar diseases and 2nd spray at 15 days interval
ix.	**Existing Practice:**	Spraying of Carbandazim@ 1kg/ha

x.	**Hypothesis:**	Both the treatment will decrease the rotting of the vine.
xi.	**Objective(s):**	To decrease rotting problem and increase yield
xii.	**Treatments:**	
	Farmers Practice (FP):	Spraying of Carbandazim@ 1kg/ha
	Technology option-I (TO-I):	Planting material treatment with *Trichoderma viridae*@ 10 gm/lt at the time of sowing and need base alternative spraying of chlorothalonil 75% wp @ 1.5 gm/lt and *Trichoderma viridae*@ 10 gm/lt at 15 days interval
	Technology option-II (TO-II): and so on……	Planting material treatment with Tebuconazole @ 1.5 gm/lt followed by furrow application o*f T. viride* @ 4kg enriched in 50kg FYM/ha as basal application, then broadcasting of *T. viride* @ 4kg enriched in 250kg FYM/ha at 40 DAS & two sprays of Tebuconazole @ 1gm/lt starting from initiation of foliar diseases and 2nd spray at 15 days interval
xiii.	**Critical Inputs:**	*Trichoderma viridae*, chlorothalonil 75% wp, Tebuconazole
xiv.	**Unit Size:**	1 ha
xv.	**No of Replications:**	07 (Chikarada, Golanthara, Mahasayipentha
xvi.	**Unit Cost:**	2000
xvii.	**Total Cost:**	14000
xviii	**Monitoring Indicator:**	No .of rotted plant/m2,Cost of intervention. Additional income over additional investment ,Yield (q/ha), B:C ratio,
xix.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	TNAU, Annual report 2015-16 OUAT,BBSR.,2016

OFT-8 (Plant Protection)

xx.	**Season:**	**Rabi 2021-22**
xxi.	**Title of the OFT:**	Assessment of of Die back management in Chilli
xxii.	**Thematic Area:**	IDM
xxiii	**Problem diagnosed:**	Low yield due to die back
xxiv	**Important Cause:**	Die back
xxv.	**Production system:**	Rice-vegetable cropping system
xxvi	**Micro farming system:**	Irrigated-medium land,
xxvi	**Technology for Testing:**	TO1: Seed treatment with Vitavax @ 2g/ kg of seed and application of Difenconazole 25% EC @ 500ml/ha, twice from initial disease appearance at 10 days interval TO2:Seed treatment with *T.viridae*@ 10 gm/ kg of seed and soil application of neem cake @ 2.5 q/ha, installation of yellow sticky trap @50/ha and need base application of Pyraclostrobin 20 %WG @ 500gm/ha , twice from initial disease appearance at 10 days interval
xxvi	**Existing Practice:**	Spraying of Carbandazim@ 1kg/ha.

xxix	**Hypothesis:**	Both the treatment will decrease disease infestation in chilli
xxx.	**Objective(s):**	To reduce the disease infestation and enhance the yield
xxxi	**Treatments:**	
	Farmers Practice (FP):	Spraying of Carbandazim@ 1kg/ha.
	Technology option-I (TO-I):	Seed treatment with Vitavax @ 2g/ kg of seed and application of Difenconazole 25% EC @ 500ml/ha, twice from initial disease appearance at 10 days interval
	Technology option-II (TO-II): and so on……	Seed treatment with *T.viridae*@ 10 gm/ kg of seed and soil application of neem cake @ 2.5 q/ha, installation of yellow sticky trap @50/ha and need base application of Pyraclostrobin 20 %WG @ 500gm/ha , twice from initial disease appearance at 10 days interval
xxxi	**Critical Inputs:**	Vitavax,*T.viridae,* yellow sticky trap,Difenconazole 25% EC,Pyraclostrobin 20 %WG
xxxi	**Unit Size:**	1 ha
xxxi	**No of Replications:**	07 (Sanabiswanathpur,Kutharisingh, Mendhrajpur),
xxxv	**Unit Cost:**	3000
xxxv	**Total Cost:**	21000
xxxv	**Monitoring Indicator:**	Die back incidence % /m2,Cost of intervention. Additional income over additional investment ,Yield (q/ha), B:C ratio,
xxxv	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	OUAT,BBSR.,2015 Cost of intervention. Additional income over additional investment ,Yield (q/ha), B:C ratio

OFT-9 Fishery Science

xx.	**Season:**	Year round 2020-21
xxi.	**Title of the OFT:**	Assessment of different Parasiticidal agents in controlling external parasites in grow-out carp culture system
xxii.	**Thematic Area:**	Production and management
xxiii.	**Problem diagnosed:**	Indiscriminate use of Organic fertiliser and environmental temperature variation leads to infestation of external crustacean parasites.
xxiv.	**Important Cause:**	Improper disease control measures
xxv.	**Production system:**	Grow-Out carp culture, Modified Extensive system
xxvi.	**Micro farming system:**	Irrigated canal fed Modified extensive carp culture
xxvii.	**Technology for Testing:**	Assessment of different pond based and feed based anti-parasitic drugs in controlling the Parasitic diseases.
xxviii.	**Existing Practice:**	Mostly mechanical removal of the Parasite or in few cases use of Formalin (37% HCHO)
xxix.	**Hypothesis:**	Both the Synthetic Pyrethroids and Avermectin group chemicals/drugs inhibits the growth and brings the mortality of the parasite through disturbance in the CNS, moulting and growth.
xxx.	**Objective(s):**	To find-out the effective chemical/drug in successful control of Parasitic diseases in carps. To establish the effective chemical/drug delivery system.

		To validate the result in different locations.
xxxi.	**Treatments:**	
	Farmers Practice (FP):	Mechanical removal or in few cases use of Formalin (37% HCHO)
	Technology option-I (TO-I):	Pond application of Synthetic Pyrethroid like Cypermrthrin 10% EC @60 ml/Acre.mt (4 times in weekly interval)
	Technology option-II (TO-II):	Application of Emamectin Benzoate/Ivermectin @ 250g/ton feed.
xxxii.	**Critical Inputs:**	Cypermetrin; Ivermectin/Emmamectin benzoate
xxxiii.	**Unit Size:**	0.4 – 1.0 ha
xxxiv.	**No of Replications:**	07
xxxv.	**Unit Cost:**	2750
xxxvi.	**Total Cost:**	19250
xxxvii.	**Monitoring Indicator:**	% of Infestation, % of Recovery, Fish health Index Plankton, pH, DO_2, Alkalinity, Hardness. Cost of intervention. Yield (q/ha), B:C ratio
xxxviii.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	ICAR-CIFA 2015-16& OUAT, 2016-17

OFT-10Fishery Science

xxxix	**Season:**	Year round 2020-21
xl.	**Title of the OFT:**	Assessment of Soil and water Probiotics as remedial measures for pisciculture in problematic waters
xli.	**Thematic Area:**	Production and management
xlii.	**Problem diagnosed:**	Undesirable water characters such as high alkalinity, hardness and bloom formation leading to low pond productivity.
xliii.	**Important Cause:**	Undesirable soil and water characteristics; Mis-management
xliv.	**Production system:**	Grow-Out carp culture, Modified Extensive system
xlv.	**Micro farming system:**	Irrigated canal fed Modified extensive carp culture, Perineal water body
xlvi.	**Technology for Testing:**	Different water based and feed based anti-parasitic agent assessment
xlvii.	**Existing Practice:**	Application of Organic manure
xlviii	**Hypothesis:**	Both the Water and Soil probiotic contains the mixture of Heterotrophic and Autotrophic bacteria, helps in assimilation of organic materials, thereby reducing the harm-ful effect in the water column as well in the pond bottom.
xlix.	**Objective(s):**	To find-out the effective and eco-friendly way for soil and water remediation. To increase the pond productivity so as that of the crop. To validate the result in different locations.
l.	**Treatments:**	
	Farmers Practice (FP):	Application of Organic manure
	Technology option-I (TO-I)	Application of Water probiotic @ 1kg/Ac at fortnight interval.
	Technology option-II (TO-II)	Application of Soil Probiotic @ 1lt/Ac at Fortnight interval.
	Technology option-III (TO-III)	Alternative application of both soil and water probiotic at fortnight interval.
li.	**Critical Inputs:**	Soil and water probiotics
lii.	**Unit Size:**	0.4 – 1.0 ha
liii.	**No of Replications:**	05
liv.	**Unit Cost:**	3800
lv.	**Total Cost:**	19000
lvi.	**Monitoring Indicator:**	Growth Parameter: Avg. Body Wt. & Length, Survivability%, SGR (%); Water quality Parameter: Plankton, pH, DO_2, Alkalinity, Hardness; Economics
lvii.	**Source of Technology (ICAR/**	ICAR-CIFA 2012; ICAR-Technology Repository(CIBA-2016);COF-OUAT,

	AICRP/ SAU/ Other, please specify):	2017

OFT-11Agriculture Extension

I.	**Season:**	Kharif 2021
II.	**Title of the OFT:**	Assessment of knowledge of farmers on climate-resilient practices
III.	**Thematic Area:**	Knowledge level
IV.	**Problem diagnosed:**	Poor knowledge on climate resilient practices
V.	**Important Cause:**	Low yield of rice crop
VI.	**Production system:**	Rice-pulses cropping system
VII.	**Micro farming system:**	Kharif, rainfed medium land
VIII.	**Technology for Testing:**	Knowledge level of farmer
IX.	**Existing Practice:**	Cultivation of crop by own knowledge
X.	**Hypothesis:**	To assess the knowledge of farmer on climate resilient practices
XI.	**Objective(s):**	To study the knowledge level of farmer
XII.	**Treatments:**	
	Farmers Practice (FP):	Cultivation of crop by conventional agricultural practices
	Technology option-I (TO-I)	Cultivation of crop with resilience practices
	Technology option-II (TO-II)	Cultivation of crop with integrated resilient practices
XIII.	**Critical Inputs:**	Interview schedule
XIV.	**Unit Size:**	0.4ha or less (each)
XV.	**No of Replications:**	**25**
XVI.	**Unit Cost:**	-
XVII.	**Total Cost:**	-
VIII.	**Monitoring Indicator:**	Knowledge level, used of resilient practices, rate of adoption, yield and B: C ratio
XIX.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	ICAR-NICRA

OFT-12 Agriculture Extension

I.	**Season:**	Rabi 2021-22
II.	**Title of the OFT:**	Assessment the adoption of crop management practices of greengram
III.	**Thematic Area:**	Crop management practices
IV.	**Problem diagnosed:**	Poor knowledge on crop management practices of greengram
V.	**Important Cause:**	Low yield of greengram
VI.	**Production system:**	Rice-pulses cropping system
VII.	**Micro farming system:**	Rabi, irrigated medium land
VIII.	**Technology for Testing:**	Various crop management practices adopted by farmer forgreengram
IX.	**Existing Practice:**	Cultivation of crop by own knowledge
X.	**Hypothesis:**	To assess the management practices of greengram by farmer
XI.	**Objective(s):**	To study the management practices of greengram adopted by farmer

XII.	**Treatments:**	
	Farmers Practice (FP):	Cultivation of crop by conventional agricultural practices
	Technology option-I (TO-I)	Cultivation of crop with improved crop management practices
	Technology option-II (TO-II)	Cultivation of crop with integrated management practices
XIII.	**Critical Inputs:**	Interview schedule
XIV.	**Unit Size:**	0.4ha or less (each)
XV.	**No of Replications:**	**25**
XVI.	**Unit Cost:**	-
XVII.	**Total Cost:**	-
VIII.	**Monitoring Indicator:**	Knowledge level on various crop management practices, rate of adoption, yield and B: C ratio
XIX.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	ICAR-NICRA

*Repeat the same format for EACH OFT being proposed.

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

Sl. No.	Name of the project	Funding authority	Fund expected (Rs.)

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

12. Scientific Advisory Committee

Date of SAC meeting held during 2020	Proposed date during 2021
9.2.2021	

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	250									500	20	1000
Water Samples	50									25	10	
Other (Please specify)												

Total												

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.)	Expected fund requirement (Rs.)
Total		

* Any additional requirement may be suitably justified.

15. Every KVK should bring a brief write-up supported by quality photographs about the technology having wide acceptability among the farming community of the district with factual data