REVISED PROFORMA FOR ACTION PLAN 2021

1. Name of the KVK:

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2.Name of host organization :

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3.Training programme to be organized (Dec 2021)

(a) Farmers and farmwomen

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
Integrated crop management	Scientific production practices of sweet corn cultivation	1	1	off	May									25
Integrated crop management	Scientific production practices of boro rice cultivation	1	1	off	Feb									25
Integrated crop management	Production technology of rice in saline soil	1	1	off	June									25
Weed management	Integrated weed management in paddy	1	1	off	June									25
Integrated crop management	Scientific production practices of blackgram	1	1	off	Jan									25

Integrated crop management	Scientific production practices of greengram	1	1	off	Feb									25
Plant protection														
Integrated Pest Management	Stem Borer management in Paddy	1	01	off	Jan.									25
Integrated Pest Management	BPH / WBPH management in Paddy	1	01	off	Oct.									25
Integrated Disease Management	Integrated management practices of Neckblast in Paddy	1	01	off	July									25
Integrated Pest Management	Integrated pest management of YMV in Greengram	1	01	off	Feb.									25
Integrated Disease Management	Integrated management of Rhinocerus beetle and red weevil in coconut	1	01	off	March									25
Integrated Disease Management	Integrated management of vine rot in betel vine	1	01	off	June									25
Integrated Pest Management	Management of Spodoptera in Groundnut	1	01	off	November									25
Integrated Pest Management	Integrated management of Thrips and mites in Chilli	1	01	off	April									25
Integrated Pest Management	Integrated management of shoot and fruit borer in Brinjal	1	01	off	Sept.									25
Integrated Pest Management	Management of spirating white fly	1	01	off	May									25
Agril. Engineering														
Farm Mechanisation	Technique of MAT type nursery raising for using 6-row Self Propelled Rice Transplanter	1	01	off	July									25

Farm Mechanisation	Use of Tractor drawn Seed cum fertilizer drill for Direct seeding of Rice.	1	01	off	June									25
Micro Irrigation	Use of drip irrigation system in horticultural crops	1	01	off	October									25
Farm Mechanisation	Operation and maintenance of Seed cum fertilizer drill for sowing groundnut	1	01	off	November									25
Farm Mechanisation	Principles of working operation of Tractor drawn whole straw Thresher for bundle straw production	1	01	off	December									25
Resource Conservation	Use of mulching in horticultural crops	1	01	off	September									25
Farm Mechanisation	Operation and maintenance of Dalmill	1	01	off	January									25
Farm Mechanisation	Operation & maintenance of Pulse thresher	1	01	off	February									25
Fishery		1												
Biofloc Farming	Package of practices for biofloc fish farming	1	01	Off	June									25
Composite fish culture	Stocking and post stocking pond management	1	01	Off	June									25
Composite fish culture	Composite fish culture	1	01	Off	July									25
Composite fish culture	Short term culture of Minor carps in Seasonal rainfed ponds	1	01	Off	July									25
Composite fish culture	Multiple stocking and multiple harvesting in pond culture	1	01	Off	August									25

Feeding management	Feeding management for carp culture	1	01	Off	September									25
Disease management	Fish diseases and their management	1	01	Off	November									25
Composite fish culture	Culture practices of Amur carp with IMC	1	01	Off	December									25
Crab fattening	Fattening of crabs in Brackish water ponds	1	01	Off	August									25
Integrated Farming	Integrated fish Farming	1	01	Off	December									25
Home Science														
Women and child care	Role of micro - nutrients in human diet	1	1	Off	June									25
Income generation activities for empowerment of rural Women	Semi-intensive backyard poultry management	1	1	Off	February									25
Income generation activities for empowerment of rural Women	Management of Chicks Brooding	1	1	Off	January									25
Poultry Feed Management	Azolla cultivation for Poultry Feed	1	1	Off	November									25
Income generation activities for empowerment of rural Women	Nursery techniques for quality seedling production	1	1	Off	September									25
Value addition	Value addition in Coconut	1	1	Off	May									25
Enterprise development	Mushroom production for income generation	1	1	Off	July									25
Value addition	Value addition in mushroom	1	1	Off	December									25
Minimization of nutrient loss in processing	Practices for reducing nutrient losses during processing of fruits and vegetables	1	1	Off	July									25

Household food security by kitchen gardening and nutrition gardening	Planning, establishing and management of Nutritional Garden	1	1	Off	July									25
Nutritional Security	Coriander cultivation for income generation	1	1	Off	September									25
Horticulture														
Cultivation of Vegetable	Improved production practices in Tomato	1	1	Off	November									25
Protected cultivation vegetable crops	Production technology for off season vegetables	1	1	Off	July									25
Commercial flower production	Improved marigold varieties and cultivation	1	1	Off	September									25
Production of low volume and high value crops	Pineapple cultivation as intercrop in Coconut Orchard	1	1	Off	August									25
Nursery raising	Improved methods of vegetable nursery raising	1	1	Off	October									25
Cultivation of Vegetable	Scientific cultivation Practices of Spine gourds	1	1	Off	January									25
Agril.Extension														
Integrated Farming system	Doubling farmers' income through IFS	1	01	off	January									25
Organic farming	Role of ITKs in promotion of organic farming in the district	1	01	off	January									25
Leadership development	Leadership skills development in agriculture	1	01	off	February									25
Mobilization of social capital	Enriching farmers profitability through FPO formation &	1	01	off	July									25

	management													
ICT	Online marketing facilities through android based technologies	1	01	off	August									25
Market led extension	Various marketing opportunities & production planning in vegetables	1	01	off	August									25
Group dynamics	Team management skills for enhancing effectiveness of team	1	01	off	September									25
ICT	Role of ICT for the benefits of farmers in digital india	1	01	off	October									25
Entrepreneurial development of farmers/youths	Entrepreneurship development of farmers in rural setup	1	01	off	November									25
Formation and management of SHGs	Formation and strengthening of SHGs with respect to marketing of agricultural produce	1	01	off	December									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
Plant Protection														
Bee Keeping	Honey bee cultivation	1	02	On	Feb									20
Production of bio control	Production of biopesticide	1	02	On	June									20

agents and bio pesticides														
Horticulture														
Nursery Management	Nursery Management of Horticulture crops	1	2	On	September									20
Horticulture Production	Protected cultivation of vegetable crops	1	2	On	June									20
Ag.Engg.														
Ag.Engg.	Cost economics of custom hiring center	1	02	Off	August									20
Ag.Engg.	Repair and maintenance of Powertiller	1	02	Off	March									20
Ag Engg	Repair and maintenance of harvesting implements in paddy	1	04	Off	December									10
Fishery														
Production and managment	Round the year fish seed production activities	1	03	On	August									20
Production and managment	Ornamental fish (Egg layers) breeding technology	1	03	On	November									20
Home Science														
Production of organic inputs	Preparation & use of Vermicompost&Vermi wash from Kitchen waste	1	1	On	August									20
Beekeeping	Honey bee rearing as a subsidiary occupation for income generation	1	2	On	December									20
Value addition	Food processing and preservation for income generation	1	05	On	March									10
Agril.extn														
Market led extension	Marketing principles, strategies and skills for successful entrepreneurship	1	02	On	Dec.									20
Group dynamics	Group formation and management techniques	1	02	On	September									20

(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

Plant Protection														
IDM	Integrated disease and pest management in Paddy	1	02	Off	August									20
IDM	Integrated disease and pest management in vegetables	1	02	Off	December									20
Ag.Engg.														
Ag.Engg.	Safety precautions while using Tractor and Powertiller	1	01	Off	August									20
Ag.Engg.	Fertigation Technology	1	01	Off	January									20
Home Science														
Household food security	Sensitization of SHG members to promote income generation activities	1	2	On	March									20
Location specific drudgery reduction technologies	Introduction of various farm implements & equipments to reduce the drudgery of farm-women	1	2	On	October									20
Fishery														
Disease management	Fish health management	1	02	On	October									15
Biofloc fish farming	Biofloc Fish farming	1	02	On	May									15
Agril. Extn														
WTO & IPR issues	Status, challenges and issues of IPRs in agricultural innovation	1	02	On	March									20
ICT	Application of new media	1	02	On	October									20

	in extension													

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	1												25
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management	5												125
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
TOTAL	**6**												**150**
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops	1												25
Off-season vegetables													
Nursery raising	1												25
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)	1												25
Others, if any (Cultivation of Vegetable)	2												50
TOTAL	5												125

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													
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	1												25
Others, if any													
TOTAL	1												25
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													

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
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL	**6**												**150**
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
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	2												50
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													

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
Minimization of nutrient loss in processing	1												25
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development	1												25
Value addition	2												50
Income generation activities for empowerment of rural Women	3												75
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care	1												25
Others, if any Poultry feed management	1												25
TOTAL	**11**												**275**
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems	1												25
Use of Plastics in farming practices	1												25
Production of small tools and implements	0												0
Repair and maintenance of farm machinery and implements	5												125
Small scale processing and value addition													
Post Harvest Technology	1												25
Others, if any													
TOTAL	**8**												**200**
VII. Plant Protection													
Integrated Pest Management	7												175
Integrated Disease Management	3												75
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL	**10**												**250**
VIII. Fisheries													
Integrated fish farming	1												25
Carp breeding and hatchery management													

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
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													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any- Biofloc fish farming	1												25
TOTAL	**10**												**250**
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													

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
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL	**10**												**250**
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL	**61**												**1525**

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	2												40
Integrated farming													
Seed production													
Production of organic inputs	3												60
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops	1												20
Commercial fruit production													
Repair and maintenance of farm machinery and implements	1												20
Nursery Management of Horticulture crops	1												20
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													

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
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries	1												20
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												20
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development	1												20
Others if any (ICT application in agriculture, Market led extension)	2												40
TOTAL	**13**												**260**

Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management	2												40
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology	1												20
Formation and Management of SHGs	1												20
Group Dynamics and farmers organization													

Information networking among farmers													
Capacity building for ICT application	1												20
Care and maintenance of farm machinery and implements	1												20
WTO and IPR issues	1												20
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													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any 1.Biofloc fish farming 2. Fish health management	2												40
TOTAL	**9**												**180**

4. Frontline demonstration to be conducted*

4.1

Sl.no	Crop & variety / Enterprises	Thrust Area:	Thematic Area:	Season:	Farming Situation:
1	Rice	Varietal substitution for better yield	Varietal evaluation	Rabi	Rainfed lowland Paddy
2	Paddy	IWM in Paddy	Weed Management	Kharif	Rainfed lowland paddy -greengram
3	Paddy	Reduced yield loss through IPM	IPM	Rabi	Low land,irrigated, Clay loam
4	Paddy	Reduced yield loss through IPM	IPM	Kharif	Low land,irrigated, Clay loam
5	**Coconut**	IPM in coconut	IPM	Rabi	Rainfed medium land
6	Greengram	To promote farm mechanisation and agro processing	Farm mechanization	Rabi	Rainfed Low land Paddy - Greengram
7	Paddy	To promote farm mechanisation and agro processing	Farm mechanization	Kharif	Rainfed medium land
8	Pointed gourd	To promote micro irrigation with moisture conservation & weed control	Micro irrigation	Rabi	Irrigated Medium land Paddy-vegetables
9	Greengram	To promote farm mechanisation and agro processing	Farm mechanization	Rabi	Rainfed low land
10	Spine gourd & Var. ArkaNeelachal Shree	Varietal substitution of vegetable crops for better yield	Varietal substitution	Kharif	Irrigated medium land
11	Pineapple &	Varietal substitution of fruits for better yield	Income generation, Varietal evaluation	Round the year	Medium Land

	var.Queen				
12	Marigold & Var. Bidhan marigold- 2	Varietal substitution for better yield	Varietal substitution	Rabi	Irrigated –Medium land
13	Tomato & Var. ArkaRakshak	Varietal substitution of vegetable crops for better yield	Varietal substitution	Rabi	Irrigated –Medium Land
14	Desimagur(Cat Fish)	Species diversification	Production and management	Kharif	Biofloc farming
15	Fish	Species diversification	Production and management	Rabi	Pond based, Rainfed
16	Crab	Crab fattening	Production and management	Kharif	Rainfed brackish water
17	Fish	Integrated farming system	Production and management	Round the year	Pond based, Rainfed
18	Fish	Disease management	Disease management	Round the year	Pond based, Rainfed
19	Round the year Nutritional Garden	Nutri-sensitive approaches towards creation of nutri-smart villages	Household nutritional security	Round the year	Household Backyard
20	Poultry & Breed Kadaknath	To emphasize on entrepreneurship development	Income generation	Rabi	Semi intensive poultry farming. Backyard, Free ranging
21	Mushroom	To emphasize on entrepreneurship development	Income generation	Kharif	Backyard Coconut Orchard
22	Coriander	Varietal substitution for better yield	Income generation	Round the year	Irrigated medium land

4.2

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 & Var. : Luna Suvarna	2 ha 10 Nos.	**Demonstration of salt tolerant rice variety : Luna Suvarna during kharif** **FP-Lalmedi(150days)** RP-Cultivation of saline tolerant variety Luna Suvarna(CR-DHAN-403) suitable to coastal saline soil , 150 days duration, Height: 135 cm, Avg yield: 3.5-4.0 t/ha, Resistant to Blast, Tolerance to Stem Borer, BPH, Leaf folder. Sowing of green manure crop Dhaincha (*Sesbaniaacule*	Initial & Final soil test value(pH, EC) Effective panicles/m2, No of Filled grains /Panicle, 1000 grain weight												10

			ata) seeds @ 25kg /ha and incorporating it in soil at 6th week before one week transplanting in the main field adds 4-5 t/ha green matter which results in addition of organic matter. As a result there is improvement of soil physical properties and reduction in soil salinity due to chelation of the free Na ion													
2	2ha 10 Nos.	**Demonstration of herbicides for weed management in transplanted rice during kharif** FP-Two handweeding at 45 and 65 DAS RP-Pre émergenc	Weed flora composition, Weed control efficiency Effective panicles/m2, No of Filled grains /Panicle, 1000 grain weight												10	

		e application of herbicide (Bensulfuronmethyl 0.6%+ Pretilachlor 6.0%) @ 10 kg/ha at 3 DAT and post emergence application of penoxsulan 21.7SC @ 20g ai/ha at 15 DAT.														
3	Paddy	1 ha. 10 Nos.	**Demonstration of Integrated management of Stem borer in Summer Paddy** FP-Spraying of triazophos/ propenophos/cypermethrin RP-Nursery treatment with cartap hydrochloride 4G@ 0.8 kg per hactare, + twice spraying	No of white ear heads / m^2 No of egg mass/m2, No. of dead heart/sq.mt												10

			of neem oil 3000ppm @3ml/lit and Indoxacarb 18.5SL@1ml/litre at 50DAT at 15 days interval + twice releaseof T. chilonis @ 50,000/ha 7days after each spraying.													
4	Paddy	2 ha. 10 Nos.	**Demonstration on integrated management practices of neckblast in paddy** Seed treatment with carboxin 37.5% + Thiram 37.5% @ 2.5gm/Kg, two sprays of Trifloxystrobin 25% + Tebuconazole 50% (Nativo 75WG) @ 200g/ha at 15 days interval starting first spray at disease (leaf blast) appearance**.**	**Disease incidence (%)**													
5	**Coconut**	-	**Demonstration on**	**No of beetles caught per**												

			management of Rhinoceros beetle in coconut Dusting of Carbofuran 3G @1Kg a.i/ha in manure pits, use of iron hooks, twice application of Phorate 10G @5gms mixed with sand (1:2)in three inner most leaves of the plant at 6 months interval, Installation of pheromone trap with rhino lure @ 12/ha	**trap, % of infestation**												
6	**Paddy**	2.0ha 8 Nos.	**Demonstration of direct seeding of paddy by tractor drawn multi crop seed cum Fertilizer drill** Use of Tractor drawn 9-row multi crop Seed cum Fertilizer drill	**FC (ha/h), No of tillers/ sq.m, No of effective tillers / hill, labour requirement (MDs/ha), seed rate (kg/ha)**												10
7	Paddy	-	**Demonstration of tractor drawn whole**	Threshing capacity(q/h), Labour												5

			straw paddy thresher to produce bundle straw for mushroom	requirement – (MDs/q) , Additional profit earned / ha												
8	Pointed gourd	0.4ha 03 units	**Demonstration of Drip irrigation with mulching in Pointed gourd** FP-No mulching with flood irrigation RP-Use of 50 micron mulch film with drip irrigation (emitter discharge 4lph) operating for 70-80 minutes in winter and 80-155 minutes in summer inalternate days. Water use efficiency will be increased by 30-40%, yield enhancement (15-20)%	Irrigation interval, weeding cost, Irrigation water used (mm)												03
9	Greengram	1ha	**Demonstration of pulse thresher for threshing of greengram**	**Threshing capacity(q/h), Labour requirement – (MDs/q**												10

10	Spine gourd & Var. ArkaNeelachal Shree	1 ha 10 Units	**Demonstration of Spine gourd variety ArkaNeelachal Shree** FP-Local Prevalent Var. RP-Use of variety ArkaNeelachal Shree Excellent culinary quality. It has the yield potential of 4-5 kg fruits /plant. The number of fruits/vine varies 270-290 and fruit weight 11-13g. Fruit is soft seeded with soft spine. It is moderately tolerant to anthracnose and downy mildew	No. of fruits per plant, yield (q/ha)												10
11	Pineapple & var.Queen	1ha 10 Units	**Demonstration on Intercropping of Pine apple Queen var. in Coconut Orchard** FP-Sole cropping without	No.of fruits/Unit Sq.mt No.of fruits/plant Avg. fruit weight(Kg),												10

			intercrop RP-Cultivation of Pine apple Queen var. as a component crop in coconut Orchard Cultivation of pineapple in interspaces in coconut orchard. Planting in flat bed with row to row spacing 2ft and plant to plant spacing 1ft leaving 2.5m distance from coconut plant. The average yield is 50-80 tonnes/ha depending upon spacing and cultural practices. Fruit weighs 0.9-1.3 kg. Suitable for table purpose	Yield (q/ha)												
12	Marigold & Var. Bidhan marigold- 2	1ha 10 Units	**Demonstration of marigold variety Bidhan marigold- 2** **FP-**Use of Var. Seracole **RP-** Use of Var.	Flower diameter(cm), No. of flowers/ plant, Flower yield (q/ha)												10

			Bidhan Marigold-2 Number of flowers per plant (128flowers/plant). The flowers are attractive, orange in colour, compact and found suitable for making garland, Flower dia-4cm, Yield- 285 kg/plant													
13	Tomato & Var. ArkaRakshak	2 ha 10 units	**Demonstration of triple resistant (early blight, bacterial wilt, leaf curl virus) tomato var. ArkaRakshak** FP- Var. Chiranjiv RP-Tripple resistant tomato variety ArkaRakhyak High yielding F1 hybrid developed by crossing IIHR-2834 X IIHR-2833. First F1	Wilt incidence (%), PDI of early blight,, Fruit wt(g), No of fruits per plant, Yield (q/ha)												10

			hybrid with triple disease resistance to ToLCV, BW and early blight. Fruits square round, large (90-100g), deep red colored and firm. Suitable for fresh market and processing. Yield: 75-80 t/ha in 140 days.													
14	Desimagur(Cat Fish)	05 units	**Demonstration of Desimagur(Cat Fish) in biofloc culture system**	Stocking of 3000 nos of Magur fingerlings in a biofloc tank of 10 ton capacity with a production potential of 250 kg with in 4 month culture duration												05
15	Fish	6.0 ha, 20 units	**Demonstration of Java Punti, *Puntiusgonionotus as intercrop* in composite fish culture** FP-Culture of IMC only	Length & Weight, FCR, Plankton density												20

			RP- Incorporation of Java Punti with IMC i.e. stocking of Catla: Rohu: Mrigal: Java Punti::3:4:3:2 @ 10000 nos/ha.													
16	Crab	2.0 ha 5 units	**Demonstration on fattening of water crab, Scylla serrata** FP- Culture of crabs without proper stocking density RP- Fattening of water crabs by stocking the crabs @ 1 no./m² and feeding chopped trash fish @ 5 % body weight	Body weight, carapace hardness												5
17	Fish	4.0ha 10 Units	**Demonstration of pond based IFS for doubling farmers' income** FP-Practising	Growth parameters of fish i.e. Length & Weight, fruits/plant Kg/Bed												10

			only pisciculture by stocking IMC fingerlings RP-Stocking of yearlings of IMC @ 5000 nos/ha, planting of papaya, banana and drumstick on pond dyke+ Mushroom+ Poultry	Wt./Bird													
18	Fish	2.0 ha, 5 Units	**Demonstration on use of Ivermectin in controlling Argulosis** FP-Use of traditional fish feed and no use of chemicals for disease control RP-Application of Paracure I. V. (Ivermectin 2 % w/w) @ 250 gm/ 1 ton traditional fish feed fed @ 5-3% of body weight daily for	Mortality % age, average body weight, DO, Plankton, Alkalinity													5

			4 days to control Argulosis													
19	Nutri garden	0.25 ha	**Demonstration of Nutrition Sensitive Organic Kitchen garden for better Health & additional income of farm family (COVID-19)** FP-Kitchen garden with 2/3 seasonal vegetables RP- Nutrition Sensitive Organic Kitchen garden with multiple crops including annuals, perennials.	Average per capita availability (g/day) RDA(%) Vegetable Production/annum(Kg) Vegetable Consumption/ annum(Kg)	Vegetable seeds Kit & seedlings	20000	-							0	10	10
20	Poultry & Breed Kadaknath	400 Birds 10 Units	**Demonstration on backyard poultry breed Kadaknath** FP-Breed rearing Banaraja RP-Rearing of	Body weight at 1 month, 2 month 4 month and at start of laying, Egg production per annum	Chicks	16000									10	10

			Low Input type desi chicken Kadaknath													
21	Mushroom	400 Beds 10 Units	**Demonstration of production of paddy straw mushroom with crumbled straw** FP- Production of paddy straw mushroom from rotten straw in rainy season RP-Production of paddy straw mushroom with threshed straw Crumbled paddy Straw-5kg, pulse powder 3%, soaking period of straw-5hrs	Days to 1st pin head appearance, Weight of fruiting body (g/fruit) Biological efficiency (%)	Spawn, Polythene,	750/ unit (Total 7500)									10	10
22	Coriander var. Arka Isha	0.04ha	**Demonstration of coriander throughout the year**	Leaf yield, Benefit : cost ratio	Seed, plastic for covering the field	10000	-							0	10	10

5. Extension and Training activities under FLD:

Agronomy

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field Day	Field Day on sweet corn cultivation	1	F&FW	01	Off									50
Training	Scientific production practices of sweet corn cultivation	1	F&FW	01	Off									25
Field Day	Field Day on salt tolerant paddy variety Luna Suvarna	1	F&FW	01	Off									50
Training	Production technology of rice in saline soil	1	F&FW	01	Off									25
Field Day	Field Day on Weed Management in paddy	1	F&FW	01	Off									50

Horticulture

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field Day	Field Day on pine apple in coconut orchard	1	F&FW	01	Off									50
Training	Pineapple cultivation as intercrop in Coconut Orchard	1	F&FW	01	Off									25
Field Day	Field Day on spine gourd cultivation	1	F&FW	01	Off									50
Training	Scientific cultivation Practices of Spine gourds	1	F&FW	01	Off									25
Field Day	Field Day on marigold cultivation	1	F&FW	01	Off									50
Training	Improved marigold varieties and cultivation	1	F&FW	01	Off									25
Field Day	Field Day on tomato variety ArkaRakshak	1	F&FW	01	Off									50

Training	Improved production practices in Tomato	1	F&FW	01	Off									25

Agril.Engg.& Plant Protection

Training	Use of Tractor drawn Seed cum fertilizer drill for direct seeding of Rice	1	F & FW	01	Off									25
Field day	Field Day on use of Tractor drawn Seed cum fertilizer drill for direct seeding of Rice	1	F & FW	01	Off									50
Training	Operation and maintenance of Tractor drawn whole straw Paddy Thresher	1	F & FW	01	Off									25
Field Day	Field day on use of Tractor	1	F&FW	01	Off									50

	drawn Whole straw Paddy Thresher for bundle straw production													
Training	Use of Pulse Thresher	1	F&FW	01	Off									25
Field Day	Field Day on Pulse Thresher	1	F&FW	01	Off									50
Training	Care and maintenance of drip irrigation system in Pointedgourd	1	F&FW	01	Off									25
Field Day	Field Day on Use of Drip with mulching in Pointed gourd	1	F&FW	01	Off									50
Training	Stem borer management in Paddy	1	F&FW	01	Off									25
Field day	Field day on stem borer management in Paddy	1	F&FW	01	Off									50
Training	Thrips and mites	1	F&FW	01	Off									25

	management in Chilli													
Field Day	Field Day on thrips management in Chilli	1	F&FW	01	Off									50

Fishery Science

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field day	Field day on Desimagur in biofloc culture system	1	F&FW	1	Off									40
Training	Package of practice for Biofloc farming	1	F&FW	1	Off									25
Field day	Field day on Java punti as intercrop in composite fish culture	1	F&FW	1	Off									40
Training	Short term culture of Minor carps in Seasonal rainfed ponds	1	F&FW	1	Off									25
Field day	Field day on fattening of water crab, *Scylla serrata*	1	F&FW	1	Off									40
Training	Fattening of crabs in	1	F&FW	1	Off									25

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
	Brackish water ponds													
Field day	Field day on use of Ivermectine in controlling Agulosis	1	F&FW	1	Off									40
Training	Fish diseases and their management	1	F&FW	1	Off									25
Field day	Field day on pond based IFS for doubling farmers' income	1	F&FW	1	Off									40
Training	Integrated fish Farming	1	F&FW	1	Off									25

Home Science

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field Day	Field Day on organic nutritional garden	1	F&FW	01	Off									50
Training	Planning, establishing and management of Nutritional Garden	1	F&FW	01	Off									25
Field Day	Field Day on	1	F&FW	01	Off									50

	Kadaknath poultry management													
Training	Semi-intensive backyard poultry management	1	F&FW	01	Off									25
Field Day	Field Day on Coriander var.ArkaIsha	1	F&FW	01	Off									50
Training	Coriander cultivation for income generation	1	F&FW	01	Off									25
Field Day	Field Day on mushroom cultivation in loose straw	1	F&FW	01	Off									50
Training	Mushroom production for income generation	1	F&FW	01	Off									25

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

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

Name of the Crop / Enterprise	Variety / Type	Period From April	Area (ha.)	Details of Production				
				Type of Produce	Expected Production	Cost of inputs (Rs.)	Expected Gross income	Expected Net Income (Rs.)

		2021 to March 2022			(No. /quintal)		(Rs.)	
Paddy	Pooja/ Kalachampa (Qtls.)	June-Jan	12 ha	Seed	400			
Blackgram	PU-31(Qtls.)	Dec-April	2 ha	Seed	5			
Papaya	Vinayak/Honeydew/Surya	July-Sept	41.8 Sq.mt.	Seedling	4000 nos			
Cauliflower	Snow Bulb	Sept-Nov		Seedling	500 nos			
Cabbage	Rare Bulb	Sept-Nov		Seedling	500 nos			
Brinjal	Akshita	Aug-Feb		Seedling	2000 nos			
Marigold	Serakole	Sept-Nov		Seedling	1000 nos			
Broccoli	KTS-1	Sept-Nov		Seedling	500 nos			
Red cabbage	NS-1456/ NS-1460	Sept-Nov		Seedling	400 nos			
Capsicum	N-10/ Carlifornia wonder	Sept-Nov		Seedling	1000 nos			
Chilli	Kalika	Sept-Nov		Seedling	200 nos			
Tomato	Arkarakhyak	Sept-Nov		Seedling	10000 nos			
Ornamental fish	platy, molley, guppy	April-Dec. 2021	5 tanks	Fry of ornamental fish	2,000 nos			
Vermicompost (qtl)	*E. foetida*	April-March	Tank-6ft Tank-4ft	Compost	10 q			
Vermiculture (kg)	*E. foetida*	April-March		Culture	10 kg			
Paddy straw mushroom (kg)	*V.volvacea*	June-Oct	100 Beds	Mushroom	2 q			
Oyster mushroom (kg)	*P.sajarcaju*	Nov-Feb	100 Bags	Mushroom	2 q			
Honey(Kg)/ Colony (Nos.)	*Apiscerenaindica*	April-March	10 boxes	Honey	10 kg			
Pineapple	Queen	April-March	-	Pineapple Suckers	200 nos.			

b) Village Seed Production Programme - NA

Name of the	Variety	Period	Area	No. of	Details of Production

Crop / Enterprise	/ Type	From…… to ……..	(ha.)	farmers	Type of Produce	Expected Production(q)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)

7. 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	22										
2.	KisanMela	2										
3.	KisanGhosthi	3										
4.	Exhibition	5										
5.	Film Show	22										
6.	Method Demonstrations	8										
7.	Farmers Seminar	2										
8.	Workshop	2										
9.	Group meetings	6										
10.	Lectures delivered as resource persons	16										
11.	Advisory Services	34										
12.	Scientific visit to farmers field	120										
13.	Farmers visit to KVK	1										
14.	Diagnostic visits	56										
15.	Exposure visits	5										
16.	Ex-trainees Sammelan	2										
17.	Soil health Camp	2										
18.	Animal Health Camp	2										
19.	Agri mobile clinic	1										
20.	Soil test campaigns	2										
21.	Farm Science Club Conveners meet	4										
22.	Self Help Group Conveners meetings	2										
23.	MahilaMandals Conveners meetings	2										
24.	Celebration of important days (specify)	7										
25.	Sankalp Se Siddhi	1										
26.	Swatchta Hi Sewa	5										

27.	MahilaKisanDiwas	1										
28.	Any Other (Specify)											
	Total	**337**										

8. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2021)	Amount proposed to be invested during 2022	Expected Return
6,93,330.56	**9,00,000**	**13,00,000**

9. Expected fund from other sources and its proposed utilization

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

10. On-farm trials to be conducted*

OFT-1 (Agronomy)

i. Season: Kharif, 2021 /IIyr

ii. Title of the OFT: Assessment of deep water rice varieties in Kharif
iii. Thematic Area: Varietal evaluation
iv. Problem diagnosed: Lower yield due to less tolerant of prevailing varieties to water logging

v. Important Cause: Unavailability of suitable deep water rice variety
vi. Production system: Paddy - Pulse
vii. Micro farming system: Rainfed low land, Rice -blackgram
viii. Technology for Testing: Rice varieties
ix. Existing Practice: Sarala
x. Hypothesis: Technology options May perform better than existing variety
xi. Objective(s): To know & show the potential of the three technology options under deep water conditon
xii. Treatments:
Farmers Practice (FP): Sarala
Technology option-I (TO-I): CR505
Technology option-II (TO-II): CR 506
Technology option-III (TO-III): CR 508
xiii. Critical Inputs: Seeds
xiv. Unit Size: 0.5 acre
xv. No of Replications: 7
xvi. Unit Cost: 1000
xvii. Total Cost: 7000
xviii. Monitoring Indicator: Water submergence period, Effective panicles/m2, No of Filled grains /Panicle, 1000 grain weight
xix. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): NRRI, Cuttack

OFT-2 (Agronomy)

I. Season: Kharif, 2021 /I yr

II. Title of the OFT: Assessment of different sweet corn varieties for higher yield
III. Thematic Area: Varietal evaluation
IV. Problem diagnosed: Lower yield of existing varieties
V. Important Cause: Unavailability of suitable sweet corn variety
VI. Production system: Paddy - Pulse
VII. Micro farming system: Rainfed low land, Rice -blackgram

VIII. **Technology for Testing:** Sweetcorn varieties
IX. **Existing Practice:**Sweet-16
X. **Hypothesis: Technology options** May perform better than existing variety
XI. **Objective(s):** To verify & show the potential technology options
XII. **Treatments:**
XIII. Farmers Practice (FP): Sweet-16
XIV. Technology option-I (TO-I): Pusa super sweet corn-1
XV. Technology option-II (TO-II): Madhuri
XVI. **Critical Inputs: Seeds**
XVII. **Unit Size: 0.2 acre**
XVIII. **No of Replications: 7**
XIX. **Unit Cost: 1200**
XX. **Total Cost: 8400**
XXI. **Monitoring Indicator: Ear length ,No of cobs/Plants, B.C.Ratio**
XXII. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): IARI 2018-19, IIMR Hydrabad**

OFT-3(Plant Protection)

i. **Season: Kharif, 2021 / I yr**

ii. **Title of the OFT:** Assessment of **management of spiraling whitefly in coconut**

iii. **Thematic Area:** IPM
iv. **Problem diagnosed: Low yield due to heavy infestation of whiteflies**

v. **Important Cause: Unavailability**
vi. **Production system:**

vii. **Micro farming system:** Rainfed Medium land

viii. **Technology for Testing:Integrated Management of spiraling whiteflies**

ix. **Existing Practice:**Spraying of Imidachloprid/Triazophos

x. **Hypothesis:** $TO_2$is a proven technology and would be effective after treatment
xi. **Objective(s):**Tomanage the spiraling whiteflies.

xii. **Treatments:**
Farmers Practice (FP): Spraying of Imidachloprid/Triazophos

Technology option-I (TO-I): Wrapping of yellow sticky polythene around the trunk at 1.5mtr above the ground level +Spraying of Iceryafumosorosea @ 5gm/ltr twice at 15 days interval during peak period + Release of Parasitoid Encarsiasp

Technology option-II (TO-II): Wrapping of yellow sticky polythene around the trunk at 1.5mtr above the ground level + spraying of water jet+ spraying of 1% starch solution + Alternate spraying of Neem oil 300ppm @ 5ml/ltr of water and Kabacha @ 200ml/10ltrs of water

xiii. **Critical Inputs:**(TO-I):yellow sticky polythene, Iceryafumosorosea, Parasitoid Encarsia sp

(TO-II):yellow sticky polythene, water jet, starch solution, Neem oil, Kabacha(Plant extract)

xiv. **Unit Size: 0.2ha**
xv. **No of Replications: 10**
xvi. **Unit Cost: 1000**
xvii. **Total Cost: 10000**
xviii. **Monitoring Indicator:** Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio
xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** AICRP on palms, OUAT, 2020

OFT-4 (Plant Protection)

i. **Season: Kharif**
ii. **Title of the OFT: Assessment of panama wilt in Banana**
iii. **Thematic Area:**IDM
iv. **Problem diagnosed: low yield due to high infestation of Panama wilt in Banana**
v. **Important cause : Unavailability of suitable control major**
vi. **Production system: Banana**
vii. **Micro farming system:Rainfed Medium land**
viii. **Technology for Testing:**
Existing Practice: Spraying of Carbendazim and Dimethoate
ix. **Objective(s): To control high infestation of Panama wilt in Banana**
x. **Treatments:**
Farmers Practice (FP): Spraying of Carbendazim and Dimethoate
Technology option-I (TO-I): Planting of disease free suckers, +apply lime @ 40gm/pit + 250gm neem cake/pit + 500gm vermi compost + soil drenching of 0.2 % carbendazim 50 WP soluation at 2nd, 4th and 6th months after planting + stem injection of carbendazim 50 WP@ 2-3ml/plant (20gm/lit solution) at 3rd, 5th and 7th month after planting

Technology option-II (TO-II): Planting of disease free suckers, +apply lime @ 40gm/pit + 250gm neem cake/pit + 500gm vermi compost + soil drenching of 0.1 %(Trifloxystrobin 25 WP + Tebuconazole 50 WP) soluation at 2nd, 4th and 6th months after planting + stem injection of (Trifloxystrobin 25 WP + Tebuconazole 50 WP) 2-3ml/plant (1gm/lit solution) at 3rd, 5th and 7th month after planting
xi. **Critical Inputs: TO1 -**disease free suckers, neem cake, vermi compost + soil drenching,stem injection of Carbendazim
TO2- disease free suckers, lime, neem cake, vermi compost ,Trifloxystrobin 25 WP ,Tebuconazole, stem injection of (Trifloxystrobin 25 WP + Tebuconazole 50 WP)
xii. **Unit Size:0.5ha**
xiii. **No of Replications: 7**
xiv. **Unit Cost: 1200**
xv. **Total Cost: 8400**
xvi. **Monitoring Indicator:**Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio
xvii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**
AICRP on fruit,OUAT,2019, NRCB,Tamilnadu, 2018

OFT- 5 (Agril.Engg.)
i. **Season: Rabi, 2021-22/Year-I**

ii. **Title of the OFT: Assessment of Tractor drawn multicrop seed cum fertilizer for sowing of groundnut**
iii. **Thematic Area:** Farm Mechanization

iv. **Problem diagnosed: Low yield due to improper plant population, more time involved in sowing behind the bullock drawn plough, Low net return (upto 15%) in traditional method of sowing of groundnut due to high cost of cultivation**

v. **Important Cause: Low net return (upto 15%) in traditional method of sowing of groundnut due to high cost of cultivation, more labour and time requirement in about 90% areas of cultivation**

vi. **Production system: paddy - Groundnut**

vii. **Micro farming system: Irrigated Medium land, Paddy-Groundnut**

viii. **Technology for Testing: Tractor drawn multi crop Seed cum Fertilizer drill**

ix. **Existing Practice:** Sowing of Groundnut behind the bullock drawn plough

x. **Hypothesis: Line sowing in 9-rows, Row to row and plant to plant distance – adjustable, Placing seed and fertilizer in proper depth, cup type seed metering mechanism.**

xi. **Objective(s): To enhance the Groundnut production by involving less labour and time.**

xii. **Treatments:**

Farmers Practice (FP): Sowing of Groundnut behind the bullock drawn plough

Technology option-I (TO-I): Sowing of Groundnut by means of bullock drawn plough planter

Technology option-II (TO-II): Sowing of Groundnut by Tractor drawn multi crop seed cum fertilizer drill

xiii. **Critical Inputs: OFT will be conducted in association with AICRP on FIM, CAET, OUAT (Transportation cost) / hiring**

xiv. **Unit Size: 0.1**

xv. **No of Replications: 7**

xvi. **Unit Cost: 2000/-**

xvii. **Total Cost: 14000/-**

xviii. **Monitoring Indicator:** Field capacity(ha/hr), Labour requirement – (MDs/ha) , Cost of operation (Rs/ha), Plant population/sq.m

xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**
Validated by AICRP on FIM,CAET,OUAT,2016

AICRP on UAE, CAET, OUAT, Bhubaneswar,2021

OFT-6 (Agril.Engg.)

i. **Season: Kharif, 2021-22/IIyr**

ii. **Title of the OFT: Assessment of 6-row Self propelled Rice transplanters for mechanized line transplanting in Kharif season**

iii. **Thematic Area:** Farm mechanization

iv. **Problem diagnosed: High labour cost and time involved in manual line transplanting.**

v. **Important Cause: Ease in mechanical transplanting and reduction in missing plant per meter length**

vi. **Production system: Paddy-Greengram**

vii. **Micro farming system: Irrigated Low land , Paddy - Greengram**

viii. **Technology for Testing: 6-row Riding type Rice Transplanter**

ix. **Existing Practice:** Manual line transplanting with the help of thread

x. **Hypothesis: Reduction in cost of operation by (50-60)% will be achieved in Riding type 6-row Rice Transplanter.**

xi. **Objective(s): Mechanized line transplanting in Paddy**

xii. **Treatments:**

Farmers Practice (FP): Manual line Transplanting with the help of rope and guide

Technology option-I (TO-I): Self Propelled 8-row Rice Transplanter

Technology option-II (TO-II): 6-row Riding type Paddy Transplanter

xx. **Critical Inputs: OFT will be conducted in association with AICRP on FIM, CAET, OUAT (Transportation cost)**

xiii. **Unit Size:0.2ha**

xiv. **No of Replications: 5**

xv. **Unit Cost: 1200/-**

xvi. **Total Cost: 6000/-**

xvii. **Monitoring Indicator: Field capacity(ha/h), Time saving, Labour requirement(MDs/ha), No of tillers/hill, No of seedlings/hill**

xviii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**
Released by AICRP on FIM, CAET, OUAT,2015 as transferrable technology
Validated by AICRP on FIM, CAET, OUAT, 2016

OFT-7 (Fishery)

i. **Season: Rabi, 2021 /IIIyr**

ii. **Title of the OFT:** Assessment of growth promoters for maximizing carp fry yield in nursery tanks

iii. **Thematic Area:** Production and management

iv. **Problem diagnosed:** Less growth rate and poor yield of fries

v. **Important Cause:** Slow growth rate of common carp and mrigal affects the average yield from composite carp culture

vi. **Production system:** Pond based farming system

vii. **Micro farming system:** Alluvial, small to medium tanks, irrigated, IMC & Chinese carps

viii. **Technology for Testing:** Feeding of spawns with growth promoters like Manganous sulphate and Cobaltous chloride each at a dose of 0.01mg per spawn per day (Incorporated with powdered feed) and commercially available yeast powderat a dose of0.5% of total powdered feed

ix. **Existing Practice:** Feeding with only powdered feed (Rice bran: GNOC ::1:1)

x. **Hypothesis:** More yield could be obtained by adopting TO3 as the proportion of Amur carp is more in that case and the growth rate of Amur carp is more than Mrigal

xi. **Objective(s):** To assess the efficacy of different growth promoters, its effect on maximizing survival, fry yield and economics

xii. **Treatments:**

Farmers Practice (FP): Only powdered feed (Rice bran: GNOC ::1:1)

Technology option-I (TO-I): Use of Manganous sulphate and Cobaltous chloride each at a dose of 0.01mg per spawn per day (Incorporated with powdered feed)

Technology option-II (TO-II): Use of commercially available yeast powder (*Saccharomyces cerevisiae*) at a dose of0.5% of total powdered feed to be served daily

xiii. **Critical Inputs:** Manganous sulphate, Cobaltous chloride and commercially available yeast powder (*Saccharomyces cerevisiae*)

xiv. **Unit Size: 0.4 ha**

xv. **No of Replications: 3**

xvi. **Unit Cost:**

xvii. **Total Cost:**

xviii. **Monitoring Indicator:** Average growth rate, Survival rate, Yield, B:C ratio

xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** TO-1- ICAR-CIFA – 2013 and TO-2 – TNAU-2019

OFT-8 (Fishery)

i. **Season: Round the Year, 2021/II yr**
ii. **Title of the OFT: Assessment of efficacy of different probiotics on growth performance of carps**
iii. **Thematic Area:** Disease management
iv. **Problem diagnosed: Low fish yield and more susceptible to diseases due to non use of probiotics**
v. **Important Cause: Fish is susceptible to disease incidence due to non use of probiotics**
vi. **Production system: Pond based**
vii. **Micro farming system: Pond based, rainfed ecosystem**
viii. **Technology for Testing: Efficacy of soil and water probiotics on growth of carps**
ix. **Existing Practice:** Feeding with artificial supplementary feed and no use of probiotics
x. **Hypothesis: soil and water quality parameters would be better by application of probiotics and hence disease incidence would be minimized leading to more fish yield**
xi. **Objective(s): To assess the efficacy of different probiotics on growth performance of carps**
xii. **Treatments:**

Farmers Practice (FP): Feeding with artificial supplementary feed (GNOC and rice bran at 1:1) and no use of probiotics

Technology option-I (TO-I): Application of Soil probiotic (Rid all) @ 1 kg/Ac-mt water area

Technology option-II (TO-II): Application of Water Probiotic (Water spell) @ 5 Lit/ Ac-mt water area

xiii. **Critical Inputs: Soil probiotics and water probiotics**
xiv. **Unit Size: 0.4 ha**
xv. **No of Replications: 07**
xvi. **Unit Cost: Rs 1000.00**
xvii. **Total Cost: Rs 7000.00**
xviii. **Monitoring Indicator:** Length (mm) & Weight (gm), % of disease incidence, PH, alkalinity
xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** College of Fisheries, OUAT

OFT-9 (Home Science)

i. **Season: Round the Year, 2021-22/II yr**

ii. **Title of the OFT: Refinement of packaging practices of Paddy straw mushroom**

iii. **Thematic Area:**Value addition
iv. **Problem diagnosed:** Distress Sale and low income due to short shelf life
v. **Important Cause:** Less income due to huge production
vi. **Production system:** Coconut Orchard intercropping
vii. **Micro farming system:**Homestead
viii. **Technology for Testing:** Different packaging material used to store chemilly treated paddy straw mushroom
ix. **Existing Practice:**Unwashed fresh fruit bodies in bud stage in polythene bags
x. **Hypothesis:** Avoid spoilage of mushroom within 24 hours of fruiting and enhance the shelf life for 48 hrs in paper bags
xi. **Objective(s):** To increase shelf life of paddy straw mushroom in budding stage
xii. **Treatments:**

Farmers Practice (FP): Unwashed fruit bodies in polythene bags

Technology option-I (TO-I): Fresh Mushrooms Buds washed with potassium meta bisulphite (KMS 0.1% and o.1% citric acid,) for 10 minutes and allowed to air dry on muslin cloth for 30 min and then packed in paper Bags punched with 10 holes stored at room temperature

Technology option-II (TO-II): Fresh Mushrooms Buds washed with potassium meta bisulphite (KMS 0.1%) and dipped in (o.1%)citric acid for 10 minutes and allowed to air dry on muslin cloth for 30 min and then packed in paper Bags punched with 20 holes (0.5 cm diameter) stored at room temperature

Technology option-III (TO-III): Cleaned Fresh Mushrooms Buds with packed in paper Bags punched with 20 holes (0.5 cm diameter) stored at room temperature

xiii. **Critical Inputs:** Citric Acid, KMS, Paper Bags, Poly propylene bags
xiv. **Unit Size:** 20 kg Mushroom Packaging
xv. **No of Replications: 10**
xvi. **Unit Cost: 800**
xvii. **Total Cost: 8000**
xviii. **Monitoring Indicator:** Sensory Evaluation, Weight loss(%), Shelf life(Hours)
xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**PAU,2010,Farmer's Feedback

OFT-10 (Home Science)

i. **Season: Round the Year, 2021-22/II yr**

ii. **Title of the OFT: Assessment of Coconut value added products for income generation**

iii. **Thematic Area:** Value addition
iv. **Problem diagnosed:** Distress Sale and low income due to short shelf life
v. **Important Cause:** Less income due to huge production
vi. **Production system:** Homestead
vii. **Micro farming system:**Homestead
viii. **Technology for Testing:** Preparation of Cookies, Chips, Chutney Mix from dry coconut
ix. **Existing Practice:** Selling of dry coconut
x. **Hypothesis:**
xi. **Objective(s):** To increase shelf life of dry coconut and income of SHGs.
xii. **Treatments:** Preparation of Cookies, Chips, Chutney Mix
xiii. **Farmers Practice (FP):** Dry Coconut

Technology option-I (TO-I): Coconut Cookies(Wheat flour , Butter , Jaggery (Powdered), Grated coconut/Desiccated coconut powder, Baking powder, Vanilla essence requiredd for making dough & cut pieces are kept in a greased tray and bake in preheated oven (180 ^{0}C for 15- 20 minutes)

Technology option-II (TO-II): Coconut Chips (slicing the coconut meat of eleven to twelve month old nuts thinly into strands-0.6-0.7mm thickness, soaked in syrup, drained and dried)

Technology option-III (TO-III): READY-TO-USE COCONUT CHUTNEY MIX (Toast Bengal gram dhal with little oil to light brown. Coconut milk residue, Chilli, ginger, curry leaves together at low temperature adding little coconut oil. Mix all the ingredients together add salt and tamarind and make into a coarse powder).

Critical Inputs: Dry coconut, ingredients for Cookies, Chips, Chutney Mix

xiv. **Unit Size:** 20 kg /Unit
xv. **No of Replications: 10**
xvi. **Unit Cost: 600**
xvii. **Total Cost: 6000**
xviii. **Monitoring Indicator:** Sensory Evaluation, Shelf life(Days)
xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Coconut Development Board, Kochi

OFT- 11(Agril. Extn)

i. **Season: Whole year, 2021-22 (Year-I)**

ii. **Title of the OFT:Assessment of different marketing channel for marketing of kadaknath poultry**

iii. **Thematic Area:** Market led extension
iv. **Problem diagnosed:**Lower net profit of kadaknath farmers inspite of high market price

v. **Production system:** Semi intensive Backyard System
vi. **Micro farming system**: Backyard Poultry
vii. **Technology for Testing:** Different Marketing Methods
viii. **Existing Practice:**Door to door marketing by individual farmers
ix. **Objective(s):**To test and show different marketing options for the district
x. **Treatments:**

Farmers Practice (FP): Door to door marketing by individual farmers
Technology option-I (TO-I): Marketing through SHGs/FPOs

Technology option-II (TO-II): Marketing through broiler marketing channel

Technology option-III (TO-III): E -marketing

xi. **Critical Inputs: Advisory Services**
xii. **Unit Size: 10**
xiii. **No of Replications: 10**
xiv. **Unit Cost: 100**
xv. **Total Cost: 4000**
xvi. **Monitoring Indicator: Cost of intervention. Additional income over additional investment, B:C ratio,**
xvii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**

*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.)
1	ARYA		25,31,278
2	ASCI		3,30,000
3	ATMA		1,00,000
4	RKVY		3 Crores Budget submitted for infrastructure
5	Skill Training On Scientific Bee keeping	**NBHM**	

11. No. of success stories proposed to be developed with their tentative titles- 4no

12. Scientific Advisory Committee

Date of SAC meeting held during 2020	Proposed date during 2021
18.02.2021	**December**

13. Soil and water testing

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	100										10	100
Water Samples	230										44	-

Other (Please specify)												
Total	**330**										**54**	

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.)	Expected fund requirement (Rs.)
Contingency	16,00,000	16,00,000
T.A HRA	1,50,000 30,000	1,50,000 30,000
ARYA (R &O) TA	9,32,000	10,00,000
ARYA (Capital)	8,56,000	8,56,000
Total	**35,68,000**	**36,36,000**

* Any additional requirement may be suitably justified.

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

Crop/ Enterprise	Thematic Area	Technology demonstrated	Horizontal spread of technology			Photographs
			No. of villages	No. of farmers	Area in ha	
Paddy	Varietal Evaluation	Var.Swarna Sub-1	423	6629	8358	
Chilli	IPM	Soil application of neem cake @2.5 qt/ha,Installation of Blue sticky traps @50nos/ha, & need based application of Difenthiuron @1gm/lt&Spiromesifen 240 SC @ 0.6ml/ lit alternately at 10 days interval	18	67	17	

Crop/ Enterprise	Thematic Area	Technology demonstrated	Horizontal spread of technology			Photographs
			No. of villages	No. of farmers	Area in ha	
Greengram	IPM	Seed treatment with Imidacloprid 600FS@5ml/kg seed,Instalation of YST@25/ha, alternate spraying of Neem oil (300ppm)@2.5ltr/ha and Difenthiuron 50% WP@500gm/ha at 10 days interval at 40 DAS	48	168	63	
Pisciculture	Fish feed management	Application of Floating fish feed @ 1% body weight daily in composite carp culture	62	182	342	
Pisciculture	Composite carp culture	Stocking of grow out ponds with Catla:JayantiRohu: Mrigal fingerlings@ 3000:4000:3000 nos per ha	48	190	455	
Mushroom	Income generation	Cultivation in agro shade net house (75%) with substrate treatment in lime solution (2%)	112	266	-