

**REVISED PROFORMA FOR ACTION PLAN 2022**

**1. Name of the KVK:**

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

<b>Address</b>	<b>Telephone</b>		<b>E mail</b>
	<b>Office</b>	<b>FAX</b>	
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**3. Training programme to be organized (January 2022 to December 2022)**

**(a) Farmers and farmwomen**

<b>Thematic area</b>	<b>Title of Training</b>	<b>No.</b>	<b>Duration</b>	<b>Venue</b>	<b>Tentative</b>	<b>No. of Participants</b>												
						<b>On/Off</b>	<b>Date</b>	<b>SC</b>		<b>ST</b>		<b>Other</b>		<b>Total</b>				
								<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>M</b>	<b>F</b>	<b>T</b>		
<b>Plant Protection</b>																		
IPM	Integrated management of shoot and fruit borer in Brinjal	1	01	off	May													25
IPM	Management of spirating white	1	01	off	May													25

	fly																	
Integrated Disease Management	Integrated management practices of Sheath blight in Paddy	1	01	off	July													25
IPM	Integrated management of Rhinocerus beetle and red weevil in coconut	1	01	off	August													25
Integrated Disease Management	Management of vine rot in betel vine	1	01	off	September													25
IPM	BPH / WBPH management in Paddy	1	01	off	September													25
IPM	Application of pest control measures against YMV in Greengram	1	01	off	December													25
IPM	Management of pest and disease in cole crops	1	01	off	December													25
Integrated Pest Management	IPM strategies for Chilli to control Thrips and mites.	1	01	off	January													25
IPM	Management of Stem Borer in Summer Paddy	1	01	off	January													25
Integrated Disease Management	Management of Tikka disease in Groundnut	1	01	off	February													25
<b>Agril. Engineering</b>																		
Farm	Use of small tools and farm				May													

Mechanization	implements for drudgery reduction of Farm Women																	
Farm Mechanization	Operation and maintenance of Farm machineries available for Direct seeding of Rice.	1	01	off	June													25
Farm Mechanization	Training on MAT type nursery raising for using manual and mechanical Transplanters	1	01	off	July													25
Farm Mechanization	Use of drip irrigation system in vegetable crops	1	01	off	October													25
Farm Mechanization	Operation and maintenance of Seed cum fertilizer drill for sowing groundnut	1	01	off	November													25
Micro Irrigation	Crop protection from Frost damage using different types of Sprinklers	1	01	off	February													25
Farm Mechanization	Operation and maintenance of Dalmill	1	01	off	March													25
Farm Mechanization	Operation & maintenance of Pulse thresher	1	01	off	March													25
Farm Mechanization	Operation and maintenance of Tractor drawn Groundnut Thresher	1	01	off														25



Composite fish culture	Intercropping of Minor carps & barbs in composite carp culture	1	01	Off	December												25
Feeding management	Artificial Feeding management in carp culture	1	01	Off	December												25
Composite fish culture	Composite carp culture in community tank by WSHGs	1	01	Off	January												25
Composite fish culture	Breeding and seed production of Amur carp in village ponds	1	01	Off	January												25
Composite fish culture	Adverse aquatic environment of fish ponds & its remedial measures	1	01	Off	February												25
<b>Agril Extn</b>																	
Leadership development	Strengthening leadership in farmers' group & cooperatives	1	01	off	June												25
Group dynamics	Management of groups & Team for enhancing effectiveness of team	1	01	off	July												25
Formation & management of SHGs	Management of SHGs for sustainable development	1	01	off	August												25
ICT	Use of rice expert mobile app for information	1	01	off	August												25

	regarding scientific paddy cultivation														
CSA	Climate smart agriculture converting problems into opportunities	1	01	off	September										25
Entrepreneurial development of farmers/youths	Empowerment of farmers through entrepreneurial skill development for agricultural ventures	1	01	off	October										25
Entrepreneurial development of farmers/youths	Women empowerment through Agripreneurship	1	01	off	October										25
WTO and IPR issues	IPR in agriculture & allied sector	1	01	off	November										25
Organic farming	Residue free vegetable cultivation for better health	1	01	off	November										25
Organic farming	On farm organic input production for organic farming	1	01	off	December										25
ICT	Online marketing facilities through android based technologies	1	01	off	January										25
Mobilization of social capital	Enriching farmers profitability through FPO	1	01	off	February										25

	formation & management													
Market led extension	Various marketing opportunities & production planning in agri-horti system	1	01	off	March									25
<b>Home Science</b>														
Minimization of nutrient loss in processing	Importance of nutrition in daily diet and techniques of Minimization of nutrition loss in processing	1	1	On	May									25 25
Location specific drudgery reduction technologies	Use of women friendly equipments for drudgery reduction	1	1	Off	June									25 25
Nursery Management	Nursery management for income generation	1	1	Off	September									25 25
Household food security by kitchen gardening and nutrition gardening	Terrace Nutritional gardening Establishment and importance	1	1	Off	August									25 25
Value addition	Preparation of Paneer from milk	1	1	Off	August									25 25
Value addition	Packaging paddy straw	1	1	Off	July									25 25

	mushroom to enhance shelf life																		
Production of organic inputs	Production technique of vermicompost from spent mushroom substrate	1	1	On	November													25	25
Income Generation	Oyster Mushroom Cultivation	1	1	On	November													25	25
Income generation activity for empowerment of rural women	Cultivation practices of Tulsi in backyard	1	1	On	December													25	25
Value addition	Drying of oyster mushroom	1	1	Off	February													25	25
Animal Nutrition management	Low cost hydroponics fodder cultivation in Dairy Farming	1	1	Off	October													25	25
Income generation activities for empowerment of rural Women	Quail farming-scope & management practices	1	1	Off	January													25	25
Value addition	Preparation of mushroom pickle and mushroom pakoda.	1	1	Off	January													25	25
Enterprise development	Mushroom production for income	1	1	Off	July													25	25



generation																			
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**(b) Rural youths**

Themati c area	Title of Training	N o.	Du rati on	Venue On/Off	Tentati ve Date	No. of Participants													
						SC		ST		Oth er		Total							
						M	F	M	F	M	F	M	F	T					
<b>Plant Protectio n</b>																			
Bee Keeping	Honey bee cultivation	1	02	On	Februar y														20
Productio n of bio control agents and bio pesticides	Production of biopesticide	1	02	On	October														20
Productio n of bio control agents and bio pesticides	Preparation of biopesticide s botanical pesticides & ITKs	1	07	On	Decemb er														10
<b>Ag.Engg.</b>																			
Farm Mechanizat ion	Custom hiring of Paddy Reaper	1	02	Off	January														20
Farm Mechanizat ion	Custom hiring of Rice Transplanters	1	02	Off	July														20
Farm Mechanizat ion	Repair and maintenance of Tractor	1	07	On	January														10
<b>Fishery</b>																			
	Round the	1	03	On	August														20

Production and management	year fish seed production technology																
Production and management	Ornamental fish (Egg layers) breeding technology	1	03	On	August												20
Production and management	Vocational training for fish seed producers	1	7	On	February												20
<b>Ag. Extension</b>																	
Enterprise development	Developmental Process & management of agri-enterprises	1	02	On	September												20
ICT	Improving rural youth livelihood through ICT in agriculture & allied sector	1	02	On	Dec												20
<b>Home Science</b>																	
Value addition	Value addition of Coconut	1	2	Off	October											20	20
Beekeeping	Honey bee rearing as a subsidiary occupation for income generation	1	2	On	December												20

Mushroom Production	Mushroom Spawn Production	1	7	Off	August											10	10
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(c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants											
						SC		ST		Other		Total					
						M	F	M	F	M	F	M	F	T			
<b>Plant Protection</b>																	
IDM	Integrated disease and pest management in Paddy	1	02	Off	August												
IDM	Integrated disease and pest management in vegetables	1	02	Off	October												
IPM	Alternate methods of pest control																
IPM	Safe use of pesticides																
IPM	Fruit fly management in gourds																
<b>Ag.Engg.</b>																	
Farm Mechanization	Improved farm machineries for resource conservation	1	01	Off	September												

Ag.Engg.	Fertigation Technology	1	01	Off	December												
Farm Mechanization	Safety precautions while using tractor and power tiller	1	01	Off	December												
<b>Fishery</b>																	
Disease management	Sustainable BW shrimp & fin-fish farming	1	02	On	November												15
Biofloc fish farming	Biofloc Fish farming	1	02	On	July												15
Production & management	Recent advances in brackish water aquaculture	1	02	On	October												15
<b>Ag. Extension</b>																	
Information networking among farmers	Strengthening information networking structure among farmers to influence their decision making & adoption behaviour	1	02	On	October												20
ICT	Mobile journalism for effective transfer of technology in	1	02	On	February												20

	agriculture														
Group Dynamics and farmers organization	Effect of group dynamics factors in enhancing team work efficiency in farmers organizations	1	02	On	March										20
<b>Home Science</b>															
Women and Child care	Malnutrition and its management	1	1	Off	July										20
Gender mainstreaming through SHGs	Gender Issues- Beyond India. A situational Analysis	1	1	On	November										20
Income generation	Entrepreneurship development of WSHGs through income generation activities	1	1	On	February										20

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

**Farmers and Farm women**

Thematic Area	No. of Course s	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
<b>I. Crop Production</b>													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops )													
<b>TOTAL</b>													
<b>II. Horticulture</b>													
<b>a) Vegetable Crops</b>													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													

Thematic Area	No. of Course s	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
Off-season vegetables													
Nursery raising													
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
<b>TOTAL</b>													
<b>b) Fruits</b>													
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)													
<b>TOTAL</b>													
<b>c) Ornamental Plants</b>													
Nursery Management													
Management of potted plants													

Thematic Area	No. of Course s	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
<b>TOTAL</b>													
<b>d) Plantation crops</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>TOTAL</b>													
<b>e) Tuber crops</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>TOTAL</b>													
<b>f) Spices</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>TOTAL</b>													
<b>g) Medicinal and Aromatic Plants</b>													
Nursery management													
Production and management technology													



Thematic Area	No. of Course s	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
Post harvest technology and value addition													
Others, if any													
TOTAL													
<b>III. Soil Health and Fertility Management</b>													
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													
<b>IV. Livestock Production and Management</b>													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													

Thematic Area	No. of Course s	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
Others, if any (Goat farming)													
TOTAL													
<b>V. Home Science/Women empowerment</b>													
Household food security by kitchen gardening and nutrition gardening	1												25
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet	1												25
Minimization of nutrient loss in processing	2												50
Gender mainstreaming through SHGs													
Storage loss minimization techniques	1												25
Enterprise development													
Value addition	1												25
Income generation activities for empowerment of rural Women	1												25
Location specific drudgery reduction technologies	1												25

Thematic Area	No. of Course s	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
Rural Crafts													
Capacity building													
Women and child care													
Others, if any	6												150
<b>TOTAL</b>	<b>14</b>												<b>350</b>
<b>VI. Agril. Engineering</b>													
Installation and maintenance of micro irrigation systems	2										50		50
Use of Plastics in farming practices													
Production of small tools and implements	1										25		25
Repair and maintenance of farm machinery and implements	4										100		100
Small scale processing and value addition													
Post Harvest Technology	3												75
Others, if any	2												50
<b>TOTAL</b>	<b>12</b>												<b>300</b>
<b>VII. Plant Protection</b>													
Integrated Pest	6										15		15

Thematic Area	No. of Course s	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
Management											0		50
Integrated Disease Management	4										100		100
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides	1												25
Others, if any													
<b>TOTAL</b>	<b>11</b>												<b>275</b>
<b>VIII. Fisheries</b>													
Integrated fish farming	2												50
Carp breeding and hatchery management	1												25
Carp fry and fingerling rearing													
Composite fish culture & fish disease	3												75
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn	1												25
Breeding and culture of ornamental fishes	1												25
Portable plastic carp hatchery													
Pen culture of fish and													

Thematic Area	No. of Course s	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any	5												1 2 5
<b>TOTAL</b>	<b>13</b>												<b>3 2 5</b>
<b>IX. Production of Inputs at site</b>													
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													

Thematic Area	No. of Course s	No. of Participants									Grand Total			
		SC			ST			Other			M	F	T	
		M	F	T	M	F	T	M	F	T				
feed														
Others, if any														
<b>TOTAL</b>														
<b>X. Capacity Building and Group Dynamics</b>														
Leadership development	2													50
Group dynamics	2													50
Formation and Management of SHGs	1													25
Mobilization of social capital	3													75
Entrepreneurial development of farmers/youths	1													25
WTO and IPR issues	1													25
Others, if any	3													75
<b>TOTAL</b>	<b>13</b>													<b>325</b>
<b>XI Agro-forestry</b>														
Production technologies	1													25
Nursery management														
Integrated Farming Systems														
<b>TOTAL</b>														

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
<b>XII. Others (Pl. Specify)</b>													
<b>TOTAL</b>													

### Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom Production	1											10	10
Bee-keeping	2												20
Integrated farming													
Seed production													
Production of organic inputs	1										20		20
Planting material production													
Vermiculture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery	1												10

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		SC			ST			Other			M	F	T	
		M	F	T	M	F	T	M	F	T				
and implements														
Nursery Management of Horticulture crops														
Training and pruning of orchards														
Value addition	1													
Production of quality animal products														
Dairying														
Sheep and goat rearing														
Quail farming														
Piggery														
Rabbit farming														
Poultry production														
Ornamental fisheries														
Para vets														
Para extension workers														
Composite fish culture	1													20
Freshwater prawn culture														



Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology	1												10
Fry and fingerling rearing	1												20
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development	2										40		40
	2												40
Others if any (ICT application in agriculture)	1												20
<b>TOTAL</b>	<b>14</b>												<b>240</b>

### Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement													

in field crops														
Integrated Pest Management	5													100
Integrated Nutrient management	1													20
Rejuvenation of old orchards														
Value addition														
Protected cultivation technology	1									20				20
Formation and Management of SHGs														
Group Dynamics and farmers organization	1													20
Information networking among farmers	1													20
Capacity building for ICT application														
Care and maintenance of farm machinery and implements	1									20				20
WTO and IPR issues														
Management in farm animals														

Livestock feed and fodder production	1												20
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs	1												20
Gender mainstreaming through SHGs	1												
Crop intensification													
Others if any	4												80
<b>TOTAL</b>	<b>17</b>												<b>340</b>

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

Sl.no	Crop & variety / Enterprises	Thrust Area:	Thematic Area:	Season:	Farming Situation:
1.	Coconut	IPM in coconut	IPM	Rabi	Rainfed medium land
2.	Betelvine	INM in Betelvine	INM	Rabi	Low land, irrigated, Clay loam
3.	Paddy	Varietal substitution for better yield	Varietal evaluation	Rabi	Rainfed lowland Paddy
4.	Groundnut	To promote farm mechanisation and agro processing	Farm mechanization	Rabi	Irrigated low land Paddy - Greengram
5.	Paddy	To promote farm mechanisation and agro processing	Farm mechanization	Kharif	Rainfed medium land
6.	Greengram	To promote farm	Farm	Rabi	Rainfed low

		mechanisation and agro processing	mechanization		land
<b>7.</b>	Watermelon	To promote farm mechanisation and agro processing	Micro irrigation	Kharif	Irrigated medium land
<b>8.</b>	Carp	Species diversification	Production and management	Kharif	Biofloc farming
<b>9.</b>	Fish	Species diversification	Production and management	Kharif	Pond based, Rainfed
<b>10.</b>	Fish	Integrated farming system	Production and management	Round the year	Pond based, Rainfed
<b>11.</b>	Fish	Disease management	Disease management	Round the year	Pond based, Rainfed
<b>12.</b>	Quail	To emphasize on entrepreneurship development	Income generation	Round the year	Semi intensive poultry farming. Backyard, Free ranging
<b>13.</b>	Mushroom	To emphasize on entrepreneurship development	Income generation	Round the year	Homestead
<b>14.</b>	Fodder	Varietal substitution for better yield	Income generation	Round the year	Semi intensive Dairy Farming
<b>15.</b>	Coconut	Value addition	Income generation	Round the year	Homestead
<b>16.</b>	Groundnut	Tech dissemination	ICT	Rabi	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	Paddy (PP)	2 ha. 10 Nos.	<b>Demonstration on integrated management practices of neckblast in paddy</b>  FP- Spraying of tricyclazole @ 2ml / litre of water after the incidence of disease  RP-Seed treatment with carboxin 37.5% + Thiram 37.5% @ 2.5gm/Kg, two sprays of Trifloxystrobin 25% + Tebuconazole 50% (Nativo 75WG) @	<b>Disease incidence (%)</b>  Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio														

			200g/ha at 15 days interval starting first spray at disease (leaf blast) appearance.														
2	<b>Betel Vine (PP)</b>	0.4 10	<p><b>Demonstration on Integrated Management of vine rot in betel vine</b></p> <p>FP- Use of Contaf plus/ Propiconazole</p> <p>RP- Soil drenching with Bordeaux mixture @ 1% and spraying Trifloxystrobin 25 WP + Tebuconazole 50 WP) @ 1ml/ltr +K cycline 1g/10lt of water at the time of disease appearance twice at 15 days interval</p>	<p><b>Percentage of infestation ,Leaf Yield/ha, No. of galls/plant, B:C ratio</b></p>													

3	<b>Coconut</b>	10 1 ha	<b>Demonstration on integrated management of spiraling whitefly in coconut</b>  FP-Spraying of Imidachloprid/Triazophos  RP-Wrapping of yellow sticky polythene around the trunk at 1.5mtr above the ground level + spraying of 1% starch solution + Alternate spraying of Neem oil 300ppm @ 5ml/ltr of water and Spiromesifen 240 SC @ 1ml/ltr of water at 15 days interval	<b>Disease incidence (%)</b>  Cost of intervention, Yield (q/ha), B:C ratio,														
4	<b>Paddy (Engg.)</b>	2.0ha 10	<b>Demonstration of direct seeding of</b>	FC (ha/h), No of tillers/sq.m, No of														1 0



		Nos.	<p><b>paddy by tractor drawn multi crop seed cum Fertilizer drill</b></p> <p>FP-Manual random transplanting</p> <p>RP-Use of Tractor drawn 9-row multi crop Seed cum Fertilizer drill .</p> <p>Field capacity – 0.4ha/h, sowing of seeds in 9 row with the help of tractor operated Seed cum Fertilizer drill with vertical rotor metering mechanism.</p>	<p>effective tillers / hill, labour requirement (MDs/ha), seed rate (kg/ha)</p>													
5	<b>Groundnut (Engg.)</b>	2.0ha 10 nos	<p><b>Demonstration of Sprinkler Irrigation in Groundnut</b></p> <p>FP- Surface</p>	<p>Field capacity(ha/h), Time saving, Labour requirement(</p>													

			<p>flow irrigation</p> <p>RP-In every 6.0m distance sprinkler head with riser pipe are installed to apply the water creating water front advance between (40-80) cm, Water use efficiency will be increased by 30-40%</p>	<p>MDs/ha), No of tillers/hill, No of seedlings/hill</p>													
6	Green gram (Engg.)	1ha	<p><b>Demonstration of Tractor drawn pulse thresher for threshing of greengram</b></p> <p>FP-Tractor treading</p> <p>RP-Tractor drawn Pulse Thresher for different Greengram varieties- In axial flow concept, the</p>	<p><b>Threshing capacity(q/h), Labour requirement(MDs/q), Threshing efficiency(%), Cleaning efficiency(%)</b></p>													

			crop is fed from one end, moves axially and the chaff is thrown out from the other end after complete threshing of crop , 500-550 kg/h														
7	<b>Watermelon (Engg.)</b>	1ha	<p><b>Demonstration of Drip irrigation with mulching in Watermelon</b></p> <p>FP- No mulching with flood irrigation</p> <p>RP-Use of 50 micron mulch film with inline drip irrigation (emitter discharge 4lph) operating for 1hr -2hr daily and Water use efficiency will be increased by 30-40%, yield enhancement (15-20)%</p>	<p><b>Irrigation interval, weeding cost, Irrigation water used (mm)</b></p>													

8	Fish seed (Fishery)	05 units	<p><b>Demonstration of mixed carp stunted fingerlings production in biofloc culture system</b></p> <p><b>FP-</b> Production of low-cost air-breathing fishes in biofloc</p> <p><b>RP-</b> Stocking of 10,000 nos. of mixed carp advance fry or early fingerlings in a biofloc tank of 10 ton capacity with a production potential of 8,000 nos. (400kg) of bigger size stunted fingerlings within 3 months of culture period</p>	Survival rate (%), Growth rate, disease incidence (%)													0 5	
9	Fish	6.0 ha, 20	<b>Demonstration of Genetically Improved (GI)</b>	Length & Weight,														20

	(Fishery)	units	<p><b>catla in composite carp culture</b></p> <p>FP-Culture of traditional catla in composite carp culture</p> <p>RP- Incorporation of GI-catla in composite carp culture with species ratio :- GI-Catla: Rohu: Mrigal:::3:4:3 @ 10000 nos/ha.</p>	<p>FCR, Growth rate, Plankton density, BC ratio</p>													
10	Fish (Fishery)	4.0ha 10 Units	<p><b>Demonstration of strengthening of pond based IFS</b></p> <p>FP-Practising only pisciculture by stocking of IMC fingerlings</p> <p>RP- Stocking of yearlings of IMC @ 5000 nos/ha, planting of papaya, banana</p>	<p>Growth parameters of fish i.e. Growth rate, average body weight (ABW) during harvesting, FCR</p> <p>fruits/plant kg/Bed</p>													10

			and drumstick on pond dykes + Poultry rearing	kg./Bird BC ratio														
11	Fish	2.0 ha, 5 Units	<b>Demonstration on use of Ivermectin in controlling Argulosis</b> 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 4 - 5 days to control Argulosis	Disease incidence (%), Mortality (%), average body weight (ABW) during harvesting, Average DO level, Plankton density, Alkalinity													5	
12	Mushroom	5	<b>Demonstration on Packaging and storage method for shelf life enhancement and transportation</b>	Shelf life (Days), sensory evaluation	Oyster Mushroom											0	5	5

			<p><b>of paddy straw mushroom</b></p> <p>FP-Fresh Mushroom in Polythene bags</p> <p>RP-Packaging and storage method for shelf life enhancement and transportation of paddy straw mushroom</p>													
13	Fodder	0.04ha	<p><b>Demonstration on Hydroponic maize fodder for dairy cattle</b></p> <p><b>FP- Grazing fodder with concentrate feed</b></p> <p>RP-Cultivation of hydroponic maize fodder (6 kg of green hydroponic fodder equivalent to 10</p>	<p>Feed intake/cow/day</p> <p>Hydroponic Fodder production/kg of maize seed (Kg)</p>	<p>Seed, shed net for covering the unit</p>	-								0	10	10

			kg of green fodder and 1kg concentrate feed)													
14	Coconut	Unit Size -10	<b>Demonstration of Coconut value added product- Coconut Chips for income generation</b>	Sensory evaluation  Shelf Life(Days)	Preservatives									0	10	10
15	Poultry	10 (1000 chicks)	Demonstration of Quail farming for income generation  FP-Rearing of Poultry birds in backyard condition  RP-Rearing of Quail under intensive system	Wt/bird in 6 weeks, chicks' mortality	Quail, feed									0	10	10
16	Groundnut	30no	Demonstration of the effectiveness of short technology videos on technology adoption	Awareness creation, Knowledge acquisition & retention, Real-time applicability,										0	30	30



		<p>FP- Less efficacy of existing dissemination modes i.e. text messages/verbal advisory</p> <p>RP- Preparation of small videos (1.5-2.0 minutes) on different activities of production process of selected commodities and the same will be sent through WhatsApp to the identified farmers</p>	<p>Uptake of new practice, Information sharing &amp; spillover effects, Change in perception</p>															
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**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants									
						SC		ST		Other		Total		T	
						M	F	M	F	M	F	M	F		
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	Use of Pulse Thresher	1	F&FW	01	Off										25
Field	Field Day on	1	F&FW	01	Off										50

Day	Pulse Thresher													
Field Day	Field Day on Tractor drawn Post hole digger	1	F&FW	01	Off									50
Training	Training on MAT type nursery raising for using manual and mechanical Transplanters	1	F&FW	01	Off									25
Field Day	Field Day on Use of riding type 6-row Rice Transplanter	1	F&FW	01	Off									50
Training	Integrated management of Neckblast in Paddy	1	F&FW	01	Off									25
Field day	Field day on Neckblast management	1	F&FW	01	Off									50

	in Paddy													
Training	Training on Rhinoceros beetle management in Coconut.	1	F&FW	01	Off									25
Field day	Field day on Rhinoceros Beetle management in Coconut	1	F&FW	01	Off									50
Field Day	Field Day on Terrace nutritional garden	1	F&FW	01	Off									50
Training	Planning, establishing and management of Terrace Nutritional Garden	1	F&FW	01	Off									25
Field Day	Field Day on Quail poultry management	1	F&FW	01	Off									50

Training	Semi-intensive backyard Quail management	1	F&FW	01	Off													25
Field Day	Field Day on Coriander cultivation	1	F&FW	01	Off													50
Training	Coriander cultivation for income generation	1	F&FW	01	Off													25
Field Day	Field Day on Drying of Oyster mushroom	1	F&FW	01	Off													50
Training	Value addition in mushroom	1	F&FW	01	Off													25

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

5. a) Seed and planting material production by 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 (quintals)	Cost of inputs (Rs.)	Expected Gross income(Rs.)	Expected Net Income (Rs.)
Paddy	CR 1009 sub-1/ Kalachampa (Qtls.)	June-Jan	12 ha	Seed	400			
Papaya	Vinayak/Honeydew/S urya	July-Sept	41.8 Sq.mt.	Seedling	4000 nos			
Cauliflower	Snow Bulb	Sept-Nov		Seedling	2000 nos			
Cabbage	Rare Bulb	Sept-Nov		Seedling	2000 nos			
Brinjal	Akshita	Aug-Feb		Seedling	2000 nos			
Marigold	Serakole	Sept-Nov		Seedling	1000 nos			
Broccoli	KTS-1	Sept-Nov		Seedling	1000 nos			
Red cabbage	NS-1456/ NS-1460	Sept-Nov		Seedling	500 nos			
Capsicum	N-10/ Carlifornia wonder	Sept-Nov		Seedling	1500 nos			
Chilli	Kalika	Sept-Nov		Seedling	1000 nos			
Tomato	Arkarakhyak	Sept-Nov		Seedling	10000 nos			
Fish fingerling	IMC	April-Dec. 2022		Stunted Fingerling s & yearlings	200000 nos.			
Ornamental fish	Japanese Koi carps & Gold fish	April-Dec. 2022	4 tanks	Fry & Fingerling s of ornament al fish	10,000 nos			
Vermicompo st (qtl)	<i>E. foetida</i>	April- March	Tank-6ft Tank-4ft	Compost	10 q			

Vermiculture (kg)	<i>E. foetida</i>	April-March		Culture	10 kg			
Paddy straw mushroom (kg)	<i>V.volvacea</i>	June-Oct	100 Beds	Mushroom	3 q			
Oyster mushroom (kg)	<i>P.sajarcaju</i>	Nov-Feb	100 Bags	Mushroom	2 q			
Honey(Kg)/ Colony (Nos.)	<i>Apis cerenaindica</i>	April-March	10 boxes	Honey	10 kg			
Pineapple	Queen	April-March	-	Pineapple Suckers	300 nos.			

#### b) Village Seed Production Programme

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

#### 5. Extension Activities

Sl. No.	Activities/ Sub-activities	No. of activities proposed	Farmers				Extension Officials			Total		
			M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day	22										
2.	KisanMela	2										

3.	KisanGhoshi	1											
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	1											
17.	Soil health Camp	2											
18.	Animal Health Camp	2											
19.	Agri mobile clinic	1											
20.	Soil test campaigns	1											
21.	Farm Science Club Conveners meet	1											
22.	Self Help Group Conveners meetings	2											
23.	Mahila Mandals Conveners meetings	1											
24.	Celebration of important days (specify)	7											
25.	Sankalp Se Siddhi	1											
26.	Swachta Hi Sewa	5											
27.	Mahila Kisan Diwas	1											
28.	Any Other (Specify)												
	Total	<b>327</b>											



## 6. Revolving Fund (in Rs.)

Opening balance of 2021-2022 (As on 01.04.2022)	Amount proposed to be invested during 2022-2023	Expected Return
83366.82		

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

Project	Source	Amount to be received (Rs. in lakh)	Proposed purpose of utilization (in brief)

## 9.

### OFT-1 (Agronomy)

#### i. Season: Kharif, 2022 /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 condition

#### xii. Treatments:

Farmers Practice (FP): Sarala

Technology option-I (TO-I): CR505- deep water late duration (162days) variety, released and notified (2014) for cultivation in low land area of Odisha. Yield – 4.5t/ha

Technology option-II (TO-II): CR 507- deep water late duration (160days) semi dwarf (140-55 cm) variety, medium slender, deep water var. released and notified (2016) for cultivation in low land area of Odisha. It can tolerate complete submergence for two weeks, yield: 4.75t/ha

Technology option-III (TO-III): CR 508- deep water late duration (165days), medium slender, deep water var. released and notified (2017) for cultivation in low land area of Odisha. yield: 4.4t/ha

#### xiii. Critical Inputs: Seeds

- xiv. **Unit Size: 0.5 acre**
- xv. **No of Replications: 10**
- xvi. **Unit Cost: 1000**
- xvii. **Total Cost: 7000**
- xviii. **Monitoring Indicator: Water submergence period, Effective panicles/m<sup>2</sup>, No of Filled grains**  

**/Panicle, 1000 grain weight**
- xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): NRRI, Cuttack**

**OFT-2 (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 measures**
- vi. **Production system: Banana**
- vii. **Micro farming system: Irrigated 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 solution at 2<sup>nd</sup>, 4<sup>th</sup> and 6<sup>th</sup> months after planting + stem injection of carbendazim 50 WP@ 2-3ml/plant (20gm/lit solution) at 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> 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) solution at 2<sup>nd</sup>, 4<sup>th</sup> and 6<sup>th</sup> months after planting + stem injection of ( Trifloxystrobin 25 WP + Tebuconazole 50 WP) 2-3ml/plant (1gm/lit solution) at 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> 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-3(Plant Protection)**

- i. Season: Kharif, 2021 / I yr**
- ii. Title of the OFT: Assessment of management of melon fruit fly in Bitter gourd**
- iii. Thematic Area: IPM**
- iv. Problem diagnosed:** Low yield of bittergourd due to high infestation of fruit flies, area affected – 2000ha, extent of fruit damage – 35 – 40%
- v. Important Cause: Unavailability of suitable control measures**
- vi. Production system: Vegetable - vegetable**
- vii. Micro farming system: Irrigated Medium land**
- viii. Technology for Testing: Integrated management of melon fruit fly in Bitter gourd**
- ix. Existing Practice: Spraying of Chloropyriphos / Cypermethrin pesticides**
- x. Hypothesis: TO<sub>2</sub> is a proven technology and would be effective after treatment**
- xi. Objective(s): To manage the melon fruit flies .**
- xii. Treatments:**  
Farmers Practice (FP): Spraying of Chloropyriphos / Cypermethrin pesticides

Technology option-I (TO-I): Mixture of cucumber fruit pulp 100gms+100ml cow urine+ 100gms jaggery +0.5lts of water and kept for overnight and diluted in 15L water (Food Bait) to be placed 5 times @ weekly interval from initiation of fruiting, installation of Pheromone traps @25/ha with Cue - lure thrice 15 DAS and change of lure at 25 days interval followed by spraying of Spinosad 45 SC@200ml/ha thrice at 15days interval

Technology option-II (TO-II): FB+ PT+ Foliar spray of Neem oil@1500ml/ha thrice at 15 days interval from initiation of flowering

Technology option-III (TO-III): FB + PT + Foliar spray of Fipronil 5EC@1000ml/ha

**Critical Inputs:(TO-I ): Pheromone traps , Spinosad**

(TO-II): Neem oil

(TO- III) : Fipronil

- xiii. **Unit Size: 0.2ha**
- xiv. **No of Replications: 05**
- xv. **Unit Cost: 1000**
- xvi. **Total Cost: 15000**
- xvii. **Monitoring Indicator:** Percentage of fruit infestation, Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio
- xviii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** RRTTS coastal zone, OUAT, Bhubaneswar, 2022

#### **OFT-4(Agril. Engg)**

- i. **Season:** Kharif, 2022/Year-I
- ii. **Title of the OFT: Assessment of various crop establishment methods in rice by mechanical transplanter**
- iii. **Thematic Area:** Resource conservation technology
- iv. **Problem diagnosed:** High energy and labour requirement in puddling operation prior to mechanized transplanting in 10% areas and also low yield due to delay in land preparation & transplanting
- v. **Important Cause:** Low net return (upto 15%) in mechanized transplanting of Paddy after puddling , more labour and time requirement , wastage of water
- vi. **Production system:** Paddy – Greengram
- vii. **Micro farming system:** Irrigated Medium land, Paddy- Greengram
- viii. **Technology for Testing:** Crop establishment methods in Rice by Mechanical Transplanters
- ix. **Existing Practice:** Mechanized transplanting under puddled condition
- x. **Hypothesis:** Mechanized Transplanting under un puddled or no tilled condition reduces the cost of puddling followed by water requirement and delay in Transplanting.
- xi. **Objective(s):** To enhance the Paddy production by involving less energy, water, labour and time.
- xii. **Treatments:**
  - Farmers Practice (FP): **Mechanized transplanting under puddled condition.**
  - Technology option-I (TO-I): **Mechanized transplanting under unpuddled condition**
  - Dry shallow tillage followed by secondary tillage with rotavator, Allow to settle for 12-24 hours after a light irrigation, Again application of very light water up to 1 cm, Transplanting by 8-row Self propelled Rice Transplanter.

Technology option-II (TO-II): **Mechanized transplanting under no tilled condition**  
Germinated weeds, if any, were knocked down by nonselective herbicide (glyphosate @ 1kg a.i./ha) at 7 - 10 days before transplanting. Irrigation was applied 12 hours before transplanting

- xiii. **Critical Inputs:** Hiring cost of Transplanter
- xiv. **Unit Size: 0.1**
- xv. **No of Replications: 05**

- xvi. **Unit Cost: Rs.4000/-**
- xvii. **Total Cost: Rs.20,000/-**
- xviii. **Monitoring Indicator:** Labour requirement – (MDs/ha) , Cost of operation (Rs/ha), water consumption during Puddling, No. of tillers / hill, Yield (q/ha)
- xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**  
TO – I - Released by AICRP on FIM, CAET, OUAT,2015 as transferrable technology  
TO –II – Validated by AICRP on FIM, CAET, OUAT, 2016

#### OFT-5 (Agril. Engg)

- xx. **Season:** Rabi, 2022-23/Year-II
- xxi. **Title of the OFT:** Assessment of Tractor drawn multicrop seed cum fertilizer for sowing of groundnut
- xxii. **Thematic Area:** Farm Mechanization
- xxiii. **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
- xxiv. **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
- xxv. **Production system:** Paddy – Groundnut and Fallow - Groundnut
- xxvi. **Micro farming system:** Irrigated Medium land, Paddy-Groundnut / Fallow - Groundnut
- xxvii. **Technology for Testing:** Tractor drawn multi crop Seed cum Fertilizer drill
- xxviii. **Existing Practice:** Sowing of Groundnut behind the bullock drawn plough
- xxix. **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.
- xxx. **Objective(s):** To enhance the Groundnut production by involving less labour and time.
- xxxi. **Treatments:**  
Farmers Practice (FP): Manual sowing of Groundnut behind the bullock drawn plough  
  
Technology option-I (TO-I): Powertiller drawn 5-row Seed cum fertilizer drill  
  
Technology option-II (TO-II): Tractor drawn 9-row Seed cum fertilizer drill
- xxxii. **Critical Inputs:** OFT will be conducted in association with AICRP on FIM, CAET, OUAT (Transportation cost ) / hiring
- xxxiii. **Unit Size: 0.1**
- xxxiv. **No of Replications: 10**
- xxxv. **Unit Cost: Rs.2000/-**
- xxxvi. **Total Cost: Rs.20,000/-**
- xxxvii. **Monitoring Indicator:** Field capacity(ha/hr), Labour requirement – (MDs/ha) , Cost of operation (Rs/ha), Plant population/sq.m
- xxxviii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**  
TO –II - Validated by AICRP on FIM,CAET,OUAT, 2016

**OFT-6 (Fishery)**

- i. Season: Rabi, 2022-23 /IIyr**
- ii. Title of the OFT:** Assessment of growth promoters for maximizing Amur carp / common carp fry yield in nursery tanks during winter
- iii. Thematic Area:** Production and management
- iv. Problem diagnosed:** Less growth rate and poor survival & yield of fries
- v. Important Cause:** Slow growth rate of Amur carp / common carp fries unnecessarily stretches the culture duration and thus increases the cost involvement
- vi. Production system:** Pond based farming system
- vii. Micro farming system:** Alluvial, small to medium tanks, irrigated, 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 powder at a dose of 0.5% of total powdered feed
- ix. Existing Practice:** Feeding with only powdered feed (Rice bran: GNOC ::1:1)
- x. Hypothesis:** Mn and Co are important catalysts for different enzymatic physiological activities of tiny spawns and the cell wall of yeast contains an immune-stimulant namely :-  $\beta$  - Glucan which increases disease resistance and survival of spawns
- 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 of 0.5% 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: Avg. Rs.2000/-**
- xvii. Total Cost: Rs.12000/-**
- 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-7 (Fishery)**

- i. Season: Round the Year, 2021/II yr**
- ii. Title of the OFT: Refinement 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:** Sandy-loam, small to medium tanks, Rainfed / irrigated, IMCs / Chinese carps
- 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-m water area
  - Technology option-II (TO-II): Application of Water Probiotic (Water spell) @ 5 Litre/ Ac-m water area
  - Technology option-III (TO-III): T O<sub>1</sub>+T O<sub>2</sub> (Combination of both Soil & Water probiotic)
- xiii. **Critical Inputs:** Soil probiotics and water probiotics
- xiv. **Unit Size:** 0.4 ha
- xv. **No of Replications:** 14
- xvi. **Unit Cost:** Rs 1000.00
- xvii. **Total Cost:** Rs 7000.00
- xviii. **Monitoring Indicator:** Growth rate, % of disease incidence, survival rate, pH, alkalinity
- xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** College of Fisheries, OUAT

#### **OFT-8 (Home Science)**

- i. **Season:** Rabi 2022 /I yr
- ii. **Title of the OFT:** Assessment of the improved techniques for cultivation of Paddy straw mushroom (*Volvariella volvacea*) using crumpled straw
- iii. **Thematic Area:** Mushroom Production
- iv. **Problem diagnosed:** Less income due to less yield
- v. **Important Cause:** Contamination with weed mould like *Coprinus comatus*
- vi. **Production system:**
- vii. **Micro farming system:** Outdoor System
- viii. **Technology for Testing:** Use of different age of mushroom spawn
- ix. **Existing Practice:** Use of unknown days age spawn
- x. **Hypothesis:** TO-II -Well-developed chlamydo spores might have served as good reservoirs with several nutrients for early and better proliferation of mycelium, and ultimately result in the maximum yield.

- xi. **Objective(s):** Identification of quality of spawn for the cultivation of *V. volvacea* for enhanced yields
- xii. **Treatments:**  
 FP: Rectangular compact method Size-45x60x30 Mushroom production by using crumpled paddy straw -5kg with normal practice (soaking in water 5hrs with 2% calcium carbonate), unknown age of spawn, 3% of dry substrate weight), pulse powder 3% dry substrate weight, BE-8-10%  
 Technology option-I (TO-I): Square compact bed size (30 × 30 cm) Mushroom production by using crumpled paddy straw 5kg, soaking of straw in water for 5hrs in 2% CaCo<sub>3</sub>, 14-20 days age spawn at 2% of dry substrate weight and coarsely ground horse gram powder (at 2% dry substrate weight)  
 Technology option-II (TO-II): Circular compact bed size -(45 cm diameter, 30 cm height) Mushroom production by using crumpled paddy straw 5kg, soaking of straw in water for 5hrs in 2% CaCo<sub>3</sub>, 14-20 days age spawn at 2% of dry substrate weight and coarsely ground horse gram powder (at 2% dry substrate weight)
- xiii. **Critical Inputs:** Mushroom Spawn, Red gram Powder, CaCo<sub>3</sub>,
- xiv. **Unit Size: 40 Beds/unit**
- xv. **No of Replications: 7**
- xvi. **Unit Cost: Rs. 800/-**
- xvii. **Total Cost: Rs.5600**
- xviii. **Monitoring Indicator:** Average buttons/bed (number), Average weight/button (g), B.E. (%), Yield/bed (g)
- xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore,2012

#### OFT-9 (Home Science)

- i. **Season: Round the Year, 2022/I yr**
- ii. **Title of the OFT: Assessment of different Var. of Tulsi in backyard for income generation**
- iii. **Thematic Area:** Income generation
- iv. **Problem diagnosed:** Less income Opp.-Marketing in Jagaarnath temple & other temples of Puri district
- v. **Important Cause:** Less income due to local variety
- vi. **Production system:**
- vii. **Micro farming system: Backyard (Irrigated Medium Land)**
- viii. **Technology for Testing:** Cultivation of Tulsi var. CIM Ayu & CIM- Angna
- ix. **Existing Practice:** Cultivation of local variety Tulsi
- x. **Hypothesis:**
- xi. **Objective(s):** To enhance the income generation.
- xii. **Treatment-**  
 FP- Cultivation of Local Var. Tulsi



**Technology option-I (TO-I):** Cultivation of Tulsi Var. CIM Ayu

**Technology option-II(TO-II):** Cultivation of Tulsi Var.CIM –Angna

**xiii. Critical Inputs:** Tulsi Seedlings

**xiv. Unit Size:** 100 Seedlings /Unit

**xv. No of Replications:** 10

**xvi. Unit Cost:** 600

**xvii. Total Cost:** 6000

**xviii. Monitoring Indicator:** Herbage yield(kg/plant)

**xix. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** CIMAP, LUCKNOW-2003

**OFT- 10 (Agril. Extn)**

**i. Season:** Kharif 2022-23 (Year-I)

**ii. Title of the OFT:** Assessment of effectiveness of different extension methods to access information on rice production

**iii. Thematic Area:** ICT

**iv. Problem diagnosed:** Poor accessibility to accurate and timely information on technical knowledge/advisory in rice production

**v. Production system:** Rice+ Pulse

**vi. Micro farming system:** Technology obtained from peer group, input dealers, extension functionaries, mass media and KMA

**vii. Technology for Testing:** extension methods to access information on rice

**viii. Existing Practice:** Farmers getting information from peer group, input dealers, extension functionaries, mass media and, KMA

**ix. Objective(s):**To test and show different effectiveness of different extension methods to access information on rice production

**x. Treatments:**

Farmers Practice (FP): Farmers getting information from peer group, input dealers, extension functionaries, mass media and, KMA

Technology option-I (TO-I): FP + Short Video Lecture+ Focus Group discussion

Technology option-II (TO-II): FP + Using of "riceXpert" App

- xi. **Critical Inputs: Advisory Services, video lecture**
- xii. **Unit Size: 10**
- xiii. **No of Replications: 3**
- 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): *NRRI, Cuttack.2017***

**OFT-11 (Agril. Extn)**

- i. **Season: Round the year**
- ii. **Title of the OFT: Assessment of the performance of FPOs with varied levels of task and commodity to enhance income**
- iii. **Thematic Area: group dynamics & farmers organization**
- iv. **Problem diagnosed: less farmers profit due to marketing through intermediaries**
- v. **Important Cause: involvement of intermediaries in the market**
- vi. **Production system: paddy+ vegetables/fruits**
- vii. **Micro farming system: FPOs with varied levels of task and commodity**
- viii. **Technology for Testing: various FPOs with different levels of task and commodity**
- ix. **Existing Practice: Farmers marketing their produce through intermediaries**
- x. **Hypothesis: any of the FPO with different levels of task and commodity will perform better than FP**
- xi. **Objective(s): to know the type of FPO functioning which is performing better in the district**
- xii. **Treatments:**  
 FP: Farmers marketing their produce through intermediaries  
  
 Technology option-I (TO-I): FPO dealing with a single commodity with a single task  
 Technology option-II (TO-II): FPO dealing with single commodity with multi-task  
  
 Technology option-III (TO-III): FPO dealing with multi-commodity with single task  
  
 Technology option-III (TO-IV): FPO dealing with multi-commodity with multi task
- xiii. **Critical Inputs: Mushroom Spawn, Red gram Powder, CaCO<sub>3</sub>,**
- xiv. **Unit Size: 4**
- xv. **No of Replications: 5**
- xvi. **Unit Cost: Rs. 1000/-**
- xvii. **Total Cost: Rs.4000/-**

**xviii. Monitoring Indicator:** Easy to produce, Easy to sell, Farmers interest to become a member, Business planning and market linkage with various national and international companies, Share capital contributed

\*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	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	NICRA	
6	Insecticide Dealers training	

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

**12. Scientific Advisory Committee**

Date of SAC meeting held during 2021	Proposed date during 2022
11.03.22	

**13. Soil and water testing**

	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	200										12	1000
Water Samples	230										15	-
Other (Please specify)												
Total												

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

<b>Heads</b>	<b>Expenditure (last year) (Rs.) up to 31.03.2021</b>	<b>Expected fund requirement (Rs.) during 2022-23</b>
Contingency	,00,000	16,00,000
T.A	1,50,000	1,50,000
HRA	30,000	30,000
ARYA (R &O) TA	9,32,000	10,00,000
ARYA (Capital)	8,56,000	8,56,000
<b>Total</b>	<b>35,68,000</b>	<b>36,36,000</b>
<b>Total</b>		

\* Any additional requirement may be suitably justified.

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