# **Action Plan** 2022 – 23

**KRISHI VIGYAN KENDRA, SONEPUR** 





# **ODISHA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

## **REVISED PROFORMA FOR ACTION PLAN 2022**

# 1. Name of the KVK:

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# 2.Name of host organization :

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## **3.**Training programme to be organized (January 2022 to December 2022)

# (a) Farmers and farmwomen

Thematic	Title of Training	No.	Duration	Venue	Tentative			No	o. of	Par	ticip	ants	5	
area				On/Off	Month	S	С	S	Т	Ot	her		Tot	al
						Μ	F	Μ	F	Μ	F	Μ	F	Т
Crop Produ	ction										l			
INM	Training on INM for higher yield in groundnut	1	1	Off- campus		-	-	-	-	-	-	-	-	25
INM	Training on Nitrogen management by LCC in Rice	1	1	Off- campus		-	-	-	-	-	-	-	-	25
IWM	Training on mechanical and cultural methods of weed management in rice	1	1	Off- campus		-	-	-	-	-	-	-	-	25

INM	Training on integrated nutrient management in green gram	1	1	Off- campus	-	-	-	-	-	-	-	-	25
ICM	Training on micro nutrient management in lowland rice	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IWM	Training on integrated weed management in groundnut in kharif season.	1	1	Off- campus	 -	-	-	-	-	-	-	-	25
ICM	Training on Contingent crop management during untimely rainfall in Rice in kharif season.	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Soil testing	Training on soil testing and use of soil health card	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Ecosystem protection	Training on adverse effect of residue burning and alternative way of rice residue management	1	1	Off- campus	-	-	-	-	-	-	-	-	25
ICM	Training on safe storage and post harvest management of pulses	1	1	Off- campus	-	-	-	-	-	-	-	-	25
WM	Training on types of nozzle, sprayer and spraying techniques of herbicides in Rice	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IWM	Training on IWM in cotton	1	1	Off- campus	 -	-	-	-	-	_	-	-	25
IWM	Training on integrated weed management in	1	1	Off- campus	-	-	-	-	-	-	-	-	25

	groundnut in rabi season												
INM	Training on INM for higher yield in groundnut	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Horticulture		I				1					l		<u> </u>
ICM	Improved varieties of onion suitable for kharif season and its cultivation practice	1	1	Off- campus	-	-	-	-	-	-	-	-	25
ICM	Orchard management practice to improve yield in mango	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IDM	Training on package & practice of brinjal & its wilt tolerant Varieties	1	1	Off- campus	-	-	-	-	-	-	-	-	25
INM	Integrated nutrient management in banana cultivation	1	1	Off- campus	-	-	-	-	-	-	-	-	25
INM	Nutrient and fertilizer management in mango	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Special horticultural practice	Grafting technique in vegetable crops to increase disease resistance	1	2	On- campus	-	-	-	-	-	-	-	-	15
ICM	Training on appropriate cultivation practice of Cauliflower in off season	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Nursery raising	Scientific raising of seedling through pro-tray in watermelon	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Special horticultural	Roof top gardening of vegetables and	1	1	Off-	-	-	-	-	-	-	-	-	25

practices	flowers			campus									
ICM	Training on improved method of cultivation Guava/Pomegranate	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IWM	Different methods of irrigation and watermanagent in cucurbits	1	1	Off- campus	-	-	-	-	-	-	-	-	25
ICM	Cultivation practice of tissue culture banana	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Plant Prote	ection												
IPM	IPM for Borer management in maize	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IDM	IDM for sheath blight in Rice.	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IPM	Chemical and cultural management of for BPH in paddy	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IPM	Integrated management for Pink Boll Worm and sucking pestsin Kharif cotton	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IDM	Integrated management for wilt complex in Brinjal	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IPM	Use of new generation safe pesticides for collar rot management in groundnut	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IDM	Integrated crop management for	1	1	Off- campus	 -	-	-	-	-	-	-	-	25

	MYMV in green gram												
IPM	IPM for melon fruit fly in bittergourd	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IPM	IPDM for thrips and purple blotch in onion	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IDM	Management of die back, fruit rot and anthracnose diseases in chilly	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Soil Science													
INM	Training on application of Sulphur and Ca for increasing oil content and pod quality of groundnut	1	1	Off- campus	-	-	-	-	-	-	-	-	25
INM	Training on micronutrient nutrient management in green gram	1	1	Off- campus	-	-	-	-	-	-	-	-	25
INM	Training on deficiency symptoms of micronutrients and their mgmt	1	1	Off- campus	-	-	-	-	-	-	-	-	25
INM	Training on nitrogen management in Rice.	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Production and use of organic inputs	Training on methods of preparation of Vermicompost	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Soil testing	Training on methods of Soil sample collection, processing of soil sample and testing of different nutrient by	1	1	Off- campus	-	-	-	-	-	-	-	-	25

	Mridaparikshyak												
Home Scienc	e/Women Empowern	nent											
Nutritional security	Training on nutritionally rich vegetables and fruits and importance of balance diet	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IGA	Training on different bed types by using crumbled straw for paddy straw mushroom production	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IGA	Training on treatment of substrate for controlling competitive fungus (ink-cap)	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Nutritional security	Training on planning and management of nutritional garden	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Brooding management	Training on Brooding management	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Nutritional security	Training on different nutritional garden structure	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IGA	Training on quality nursery raising in poly tunnel	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Housing	Training on proper housing	1	1	Off-	-	-	-	-	-	-	-	-	25

management	management of chicks			campus									
Feed management	Training on low cost feed management of Duck	1	1	Off- campus	-	-	-	-	-	-	-	-	25
IGA	Training on different varieties of oyster mushroom and its scientific production technology	1	1	Off- campus	-	-	-	-	-	-	-	-	25
РНМ	Training on post harvest management of mushroom	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Value addition	Training on different value added products from oyster mushroom	1	1	Off- campus	-	-	-	-	-	-	-	-	25
Agricultural	extension		1				I	1		I		1	
CBD	Training on group leadership and management of SHGs	1	1	Off- campus	-	-	-	-	-	-	-	-	25
CBD	Training on Agro enterprise management among farm women	1	1	Off- campus	-	-	-	-	-	-	-	-	25
CBD	Training on preparation of project proposal for SHGs	1	1	Off- campus	 -	-	-	-	-	-	-	-	25
CBD	Training on Market led production	1	1	Off- campus	-	-	-	-	-	-	-	-	25

	initiative for vegetables												
CBD	Training on ITKs in agriculture and its importance	1	1	Off- campus	-	-	-	-	-	-	-	-	25
CBD	Training on role of farmer producer organisation in strenenthing farmers economy	1	1	Off- campus	-	-	-	-	-	-	-	-	25
CBD	Training on different income generating activities for SHG members	1	1	Off- campus	-	-	-	-	-	-	-	-	25
CBD	Training on different Govt. Schemes for SHG groups	1	1	Off- campus	-	-	-	-	-	-	-	-	25
CBD	Training on market behaviour and existing market channel.	1	1	Off- campus	-	-	-	-	-	-	-	-	25
CBD	Training on different available credit institutes	1	1	Off- campus	-	-	-	-	-	-	-	-	25
CBD	Training on proper business plan for FPOs	1	1	Off- campus	-	-	-	-	-	-	-	-	25
CBD	Training on improved Production technology	1	1	Off- campus	-	-	-	-	-	-	-	-	25

# (b) Rural youths

Thematic area	Title of	No.	Duration	Venue	Tentative			N	0. 0	f Paı	tici	pant	S	
	Training			On/Off	Month	S	С	S	Г	Ot	her		Tota	al
						Μ	F	Μ	F	Μ	F	Μ	F	Т
Crop Productio	n		<u> </u>											<u> </u>
Composting method	Training on methods of preparation of organic bio products and different method of composting	1	2	On Campus		-	-	-	-	-	-	_	_	15
Bio-fertilizer	Training on BGA and Azolla cultivation	1	2	On Campus		-	-	-	-	-	-	-	-	15
Horticulture			1											
Nursery management	Training on Nursery raising techniques in vegetable and fruits	1	2	On Campus		-	-	-	-	-	-	-	-	15
Protected cultivation	Training on Protected cultivation of vegetable and flower crops	1	2	On Campus		-	-	-	-	-	-	-	-	15
Plant Protection	n													
Biological control	Scientific bio- agent production practices for sustainable agricuture	1	2	On Campus		-	-	-	-	-	-	-	-	15
Safe use of pesticide	Safe and judicious use of	1	2	On Campus		-	-	-	-	-	-	-	-	15

	pesticides												
Home Science/	Women Empowe	rmen	t	·									
Brooding Management	Training on brooding and rearing management of different poultry breeds in backyard for income generation	1	2	On Campus	_	_	-	_	-	_	-	_	15
Value addition	Training on different value added products from tomato	1	2	On Campus	-	_	-	-	-	-	-	-	15
Agricultural ex	tension												
CBD	Potential entrepreneurial opportunity in livestock system	1	2	On Campus	-	-	-	-	-	-	-	-	15
CBD	Potential entrepreneurial opportunity in Agri-horti system	1	2	On Campus	-	-	-	-	-	-	-	-	15

# (c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue	Tentative			No	o. of	Par	ticip	ants		
Thematic area	Training			On/Off	Month	S	С	S	Г	Ot	her	I	Tot	al
						Μ	F	Μ	F	Μ	F	Μ	F	Τ
Crop Productio	n		I	I	I	1		1			1			
Chemical weed management	Different types of new generation herbicide for weed	1	2	On Campus		-	-	-	_	-	-	-	-	15

	management													
Horticulture		1	1		I	1	1		1	I	I	I	I	
Special horticultural practice	Training on horticultural practices for quality planting material production in fruits and flower crops	1	2	On Campus		-	-	-	-	_	-	_	-	15
Seed production	Seed production techniques of vegetable crops	1	5	On Campus		-	-	-	-	-	-	-	-	15
Plant Protectio	n						1						1	
IPM	Modern pest control methods in managing insect pests of major field crops	1	2	On Campus		-	-	-	-	-	-	-	-	15
Home Science/	Women Empower	ment	1			1	1			I	I	I	1	
Nutritional security	Low cost and nutrient efficient diet designing	1	2	On Campus		-	-	-	-	-	-	-	-	15
Nutritional security	Planning and layout of nutrition garden and different nutritional garden structure	1	2	On Campus		-	-	-	-	-	-	-	-	15
Agricultural ex	xtension													
CBD	Application of new media in extension	1	2	On Campus		-	-	-	-	-	-	-	-	15
CBD	Motivational and communication skills for extension personnel	1	2	On Campus		-	-	-	-	-	-	-	-	15

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

#### FLD-1-

Crop: Rice Thrust Area: Crop production Thematic Area: IWM Season: kharif Farming Situation: low land

FLD-2-Crop: Cotton Crop: Thrust Area: Crop production Thematic Area: Weed management Season: Kharif Farming Situation: Rainfed, medium land

#### FLD-3-

**Crop**: Green gram **Thrust Area**: Crop production **Thematic Area**: INM **Season**: Rabi **Farming Situation**: Irrigated medium land

#### FLD-4-

Crop: Groundnut Thrust Area: Crop production Thematic Area: IWM Season: Rabi Farming Situation: Irrigated medium land

#### FLD-5-

Crop: Vegetable seedling Thrust Area: Horticulture Thematic Area: Seedling raising technique Season: Rabi Farming Situation: upland

FLD-6-Crop: Banana Thrust Area: Horticulture Thematic Area: propagation technique Season: Rabi Farming Situation: Uplan

#### FLD-7-Crop: onion Thrust Area: Horticulture

**Thematic Area**: Fertilizer application **Season**: Kharif **Farming Situation**: upland

FLD-8-Crop: Tomato Thrust Area: Horticulture Thematic Area: Varietal performance Season: Rabi Farming Situation: Upland

FLD-9-

Crop: Cotton Thrust Area: Plant protection Thematic Area: IPM Season: Kharif Farming Situation: Upland and Medium land

#### FLD-10-

Crop: Green gram Thrust Area: Plant protection Thematic Area: IPM Season: Rabi Farming Situation: Irrigated medium land

#### FLD-11-

Crop: Chilli Thrust Area: Plant protection Thematic Area: IDM Season: Rabi Farming Situation: Irrigated medium land

#### FLD-12-

Crop: Brinjal Thrust Area: Plant protection Thematic Area: IDM Season: Rabi Farming Situation: Irrigated medium land

#### FLD-13-

Crop: Mango Thrust Area: Home science Thematic Area: Drudgery Reduction Season: Pre-Kharif Farming Situation: Homestead

#### **FLD-14**

**Crop**: Vegetables & fruits **Thrust Area**: Home Science **Thematic Area**: Nutritional security **Season**: Round the year

#### Farming Situation: Homestead

FLD-15 Crop: Duck Thrust Area: Home Science Thematic Area: Feed management Season: Round the year Farming Situation: Backyard

FLD-16 Crop: Vegetable seedling Thrust Area: Home Science Thematic Area: IGA Season: Round the year Farming Situation: Upland

FLD-17 Crop: Oyster Mushroom Thrust Area: Thematic Area: Entrepreneurship Season: Rabi Farming Situation: Homestead

		Pro pos			Cost o (Rs.)	of Culti	vation	No.	of fa	rme	rs / d	lemo	onstra	tio	1	
	Crop &	ed Are		Parameter				SC		ST		Otl	ner	Τα	otal	
SI N o.	variety / Enterp rises	a (ha )/ Uni t (No .)	Technology package for demonstrat ion	(Data) in relation to technology demonstrat ed	Name of Input s	Demo	Loca l	М	F	М	F	М	F	М	F	Т
1	Rice	1ha	Application of pendimethal in @ 750 g/ha as pre- emergence application i.e 0-3 DAT followed by Bispyribac sodium @ 25 g/ha as post-	Weed count , No of Filled grains /Panicle, 1000 grain weight, no of effective tillers per m2	-	-	-	-	-	-	-	-	-	-	-	10

		[	amarganaa													
			emergence i.e 25 DAT													
2	Ground	1	Pre-	Pod	_	_	_	_	_	_	-	_	_	-	_	10
	nut	ha	emergence application of pendimethal in 30%+imaze thyper 2%@1.0 kg/ha ready mix fbpost emergence application of quizalfop-p- ethyl @50g/ha at 20 DAS	weight/plant , No of filled pod per plant, Weed control efficiency Yield(q/ha), Economics												
3	Green gram	1 ha	Application of 75% STBF + Foliar application of WSF (18:18:18) @ 2% at 25 and 40 DAS	Nodule no /plant, No of pods/plant, No of seeds/pod, test weight, Available NPK in soil(Before & After), Yield (q/ha), Economics	-	-	-	-	-	-	-	-	-		-	10
4	Cotton	1 ha	Pre- emergence application of pendimethal in @ 1.0 kg a.i./ ha as pre- emergence with post emergence application of Quizalofop- p-ethyl @ 50g a.i./ ha	No of bolls/plant, weed control efficiency	-	-	-	-	-	-	-	-	-		-	10

						1		1					
			at 20 DAS and one hand weeding at 45 DAS.										
5	Vegetab le seedling	10 nos	Use of protray technique of vegetable seedling raising using coco peat as media	Germinatio n %, seedling mortality %, height of seedling, days from seed sowing to transplantin g, B:C ratio		-	-	-			-		10
6	Banana	10 nos	Bunch feeding and INM in banana to increase bunch weight and finger size	Bunch weight (kg), Finger size ( cm), finger weight ( gm), no.of fruits/ bunch, Yield ( Qt /ha ), Gross return, Net return, B:C ratio	-	-	-	-			-		10
7	Onion	1ha	Application of oxyflurofen @ 0.05 kg/ha before planting with one hand weeding at 40-60 days after planting is	Bulb weight, plant height, no of leaves /plant, bulb diameter	-	-	-	-			-		10

		1	1 4 4	[				1						<u> </u>		
			best to													
			control the													
			weeds in													
			Onion crop.													
8	Tomato	1	Arka	Avg. No.	-	-	-	-	-	-	-	-	-	-	-	10
		ha	Apeksha-	of fruits/												
			High	plant, fruit												
			yielding	weight												
			variety	(gm), days												
			developed	to fruit												
			by IIHR. It	initiation,												
			has triple	days to fruit												
			disease	maturity ,												
			resistant to	Yield ( Qt												
			leaf curl,	/ha ), Gross												
			bacterial	return, Net												
			wilt and	return, B:C												
			early blight.	ratio												
			Fruits are													
			oblonged													
			and medium													
			large.(90-													
			100gm).													
			Yield													
			potential													
			43-90tn/ha													
			in 140-150													
9	Greengr	1	days Seed	pest	_				_	_	_	_	_	-	-	10
2	am	ha	treatment	count/leaf,	-	-	-	-	-	-	-	-	-	-	-	10
	am	na	with	Infected												
			Imidaclopri	leaves												
			d 600 FS @	/plant,												
			5 ml / kg	YMV												
			seed +	infected												
			Yellow	plants/sq.mt												
			sticky trap	r												
			@ 50/ha +													
			Neem oil 5	% of												
			@5ml/lit	infestation,												
			spray on	Additional												
			appearance	income over												
			of white fly	additional												
			on YST +	investment,												
				Viald and										1	1	
			Spraying of	Yield and												
			Diafenthiur	B:C ratio												
			Diafenthiur on 50 WP													
			Diafenthiur on 50 WP @ 312.5 g													
1	Cotton	1	Diafenthiur on 50 WP		_								_	-	_	10

0		ha	sowing latest by 1st wk of July, Collection and destruction of fallen squares/boll s/flowers in the initial stage of infestation, Spraying of neem based pesticide 15000ppm @ 2.5ltr/ha, Installation of pheromone traps @ 40/ha for mass trapping of pink boll worm one wk prior to flowering,	income over additional investment, Yield and B:C ratio												
1	Chilli	1ha	Seed treatment with ( Carboxin 37.5% + Thiram 37.5% ) @ 0.2% followed by three sprayings with Difenocona zole @ 0.1% from initial disease appearance at 10 days interval	PDI, Incidence %, Yield(q/ha), B:C ratio												10
1	Brinjal	1ha	Seed	Wilt	-	-	-	-	-	-	-	-	-	-	-	10

2			tractionart	nono												]
2			treatment	percentage,												
			with	no of wilted												
			Metalaxyl+	plant/m2 ,												
			Mancozeb	Yield(q/ha),												
			72% WP @	B:C ratio												
			2gm/kg													
			+soil													
			application													
			of													
			carbofuran													
			@ 1kg													
			a.i./ha+ soil													
			drenching													
			of													
			carbendazi													
			m 0.15%+													
			streptocycli													
			ne 0.015%													
			at 30 and 45													
			days after													
			transplantin													
			g													
1	Mango	10	Demonstrati	Energy	-	-	-	-	-	-	-	-	-	-	-	10
3			on of Fruit	expenditure												
			Harvester	rate												
			for picking	(KJ/min),W												
			of mango	HR												
			from	(beats/min),												
			Orchard for	% reduction												
			drudgery	in drudgery,												
			reduction	% increase												
				in												
				efficiency,												
				CBR Yield												
				,B:C ratio,												
				Net profit												
1	Nutritio	10	Demonstrati	Consumptio	-	-	-	-	-	-	-	-	-	-	-	10
4	nal	nos	on of	n of												
	garden	•	nutritional	vegetables/d												
			garden for	ay(Kg)												
			improving													
			nutritional	Availability												
			security of	of												
			farm family	vegetable/d												
			-	ay(Kg												
			Nutritional													
			garden with	Mean												
			Protein,	increase in												
			Vitamin &	consumptio												
				r · ·												

			-			1			<u>r</u>				1	r –		
			iron rich	n of										1		
			vegetables	vegetables										1		
			and fruits	and fruits												
			with	compared to										1		
			consumers	RDA (%)												
				KD/1 (70)												
			preference	Cast										1		
			1 7 11	Cost of										1		
			1. Trellis	input(Rs.)												
			structure													
			with PP													
			rope for													
			raising													
			cucurbits: 2.													
			Pro-tray for													
			raising													
			seedlings in													
			small											1		
			quantity +											1		
			3. cement													
			ring tank for													
			vermi													
			composting,													
			Growing													
			vegetables													
			round the													
			year													
			covering													
			leafy													
			vegetables,													
			sola ,													
			Solanaceous													
			vegetables,													
			Roots and											1		
			Tubers,											1		
			cucurbits											1		
			suiting to													
			consumptio											1		
			n pattern +											1		
			Two											1		
			IWU													
			Donorio													
			Papaya											1		
			Plants ,One											1		
			Lemon, one											1		
			drumstick											1		
			and two													
			Banana and											1		
			floriculture											1		
			in bund													
1	Duck	10n		Egg laying	-	_	_	_	_	-	-	-	-	-	-	10
5	2- 40M	os	on on	age										1		10
5		03		ugu		L		l					1	1		

			A 11													
			Azolla as a	(Months)												
			supplement	-												
			ary feed to	Egg												
			reduce feed	production/												
			cost	year (nos)												
			Feeding of													
			fresh Azolla	Body												
			@	weight (Kg)												
			200g/duck/d													
			ay as	Cost of												
			replacement	intervention												
			of 20%	. Additional												
			concentrate	income over												
			in feed of	additional												
			Khaki	investment,												
			Campbell	B:C ratio												
			ducks was	2.0 1000												
			beneficial in													
			terms of													
			improved													
			FCR, egg													
			production													
			and egg													
			quality traits													
			with													
			enriched													
			yolk colour.													
1	Vegetab	10	Demonstrati	% of	_			_	_	_	_	-	-	_	_	10
6	le				-	-	-	-	-	-	-	-	-	-	-	10
0		nos	on on	seedling survival,												
	seedling		vegetable	survival, seed												
			seedling													
			raising	germination												
			under poly	%, Number												
			tunnel	of days												
			Low cost	required												
			poly tunnel	from seed												
			made up of	sowing to												
			Bamboo	transplantin												
			and PVC	g (days),												
			pipe is	Seedling												
			installed in	height (cm)												
			a raised bed.													
			Soil													
			solarization													
			, seed													
			treatment													
			practices													
			ensures													
			production													
1																
			of healthy seedling,													

			reduces								
			disease								
			infestation								
			and								
			protection								
			against								
			harsh								
			climatic								
			condition.								
1	Orveter	50		Time				 		 	
1 7	Oyster	50	Preparation of small	Timeliness, Understandi							
/	Mushro	nos									
	om	•	videos (1.5-	ng the							
			2.0 minutes)	method and							
			on different	process							
			activities of	depicted in							
			production	the video,							
			process of								
			selected	retrieval &							
			commoditie	re-use of the							
			s and the	content							
			same will								
			be sent	Awareness							
			through	creation,							
			whatsapp to	Knowledge							
			the	acquisition							
			identified	& retention,							
			farmers and	Real-time							
			do group	applicability							
			discussion	, Uptake of							
			with those	new							
			farmers.	practice,							
			Details of	Information							
			Technology	sharing &							
			: Production	spillover							
			packages	effects,							
			will be	Change in							
			divided into	perception							
			different								
			segments								
			and short								
			videos will								
			be produced								
			and								
			disseminate								
			d through								
			whatsapp.								
		1	maisapp.		1	1	1	 I			

# Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	Pa		. of ipan	ts					
						S	С	S	T	Ot	her	To	tal	
						Μ	F	Μ	F	Μ	F	M	F	Т
Field day	Demonstration of herbicides for weed management in transplanted rice	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration on integrated weed management in groundnut	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration on IWM in cotton	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration on INM in Green gram	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration on use of pro- tray raising technique for raising vegetable seedling	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstrationonbunchfeedinginbananato	1	F & FW, RY and Line dept.	1 Day	OFF	-	-	-	-	-	-	-	-	50

	increase bunch weight		personnel											
Field day	Demonstration on use of weedicide to control weed infestation in rabi onion cultivation	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration on wilt resistant tomato variety Arka Apeksha	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration of Pink boll worm management in Cotton	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration of YMV management in green gram.	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration on IDM for anthracnose in chilli	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration on Integrated management for wilt complex in Brinjal	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration of Fruit Harvester for picking of mango from	1	F & FW, RY and Line dept.	1 Day	OFF	-	-	-	-	-	-	-	-	50

	Orchard for drudgery reduction		personnel											
Field day	Demonstration of nutritional garden for ensuring Nutritional Security of farm family	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration on Azolla as a supplementary feed to reduce feed cost	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration on vegetable seedling raising under poly tunnel	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration of the effectiveness of short technology videos on technology adoption	1	F & FW, RY and Line dept. personnel	1 Day	OFF	-	-	-	-	-	-	-	-	50

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

Name of the	Variety /	Period	Are	Details of Pro	duction			
Crop / Enterprise	Туре	From to 	a (ha.)	Type of Produce	Expected Productio n (quintals)	Cost of input s (Rs.)	Expected Gross income (Rs.)	Expecte d Net Income (Rs.)
Paddy	Hasanta	June to October	3.0	FS	90.0		2,92,500.0 0	
	Pratikshya	June to December	1.0	FS	32.0		1,04,000.0 0	
	CO- 51/MTU- 1156	June to November	1.0	FS	29.0		94,250.00	
Green gram	IPM-02-14	January to April	2.0	Certified				
Groundnut	Dharani	December to March	0.1	Certified				
Brinjal	Swarna shakti ,Swarna ajay Blue star	June to February	-	Seedling	10,000		15,000	
Chilli	Pusa Sadabahar,	June to February	-	Seedling	10,000		20,000	
Papaya	Red lady, Honey dew, Pusa nanha	June to September	-	Seedling	5,00		7,500	
Drumstick	PKM-1	June to September	-	Seedling	250		3,750	
Onion	Bhima super, Bhima shakti, Agrifound light red	July to august	-	Seedling	10,000		3,000	
Cabbage	Golden acre, Pusa drum head, Pusa mukta	September to December	-	Seedling	12,000		24,000	
Tomato	Arka rakshak, Lakhmi	June to December	-	Seedling	10,000		15,000	
Cauliflower	Pusa meghna, Pusa snow ball	September to December	-	Seedling	12000		24,000	

Broccoli	Lucky F1 Hybrid	September to December	-	Seedling	1000	2,000
Coloured Capsicum	California wonder, yellow wonder	September to December	-	Seedling	500	2,000
Knolkhol	White Vienna, purple vienna	September to December	-	Seedling	1500	3000
Red Cabbage	Namdhari –NS-1460	September to December	-	Seedling	500	1000
Cherry Tomato	Namdhari, NS-577	September to December	-	Seedling	500	1000
Lettuce	Batavia lettuce, Butter lettuce	September to December	-	Seedling	500	1000
Marigold	Ceracole, Pusa narangi gainda	September to December	-	Seedling	4000	8000
Chrysanthemu m	NBRI INDIANA , NBRI KUSUM	September to December	-	Seedling	200	1000
Rose	Manuparle , Arka sinchana, Arka sharmeeli	September to December	-	Seedling	100	3000
Mango	Amrapalli, Dasheri		-	Sapling	1000	35000
Paddy straw mushroom spawn	Volvariell a volvacea,	June to September	-	Spawn	1000	18,000
Oyster mushroom spawn	Pleuratous sajorcaju Pleuratous florida Hyspigygu s ulmarius	September to February	_	Spawn	1000	18,000
Paddy Straw mushroom	Volvariell a volvacea	June to September		Mushroom	1.0qtl	15,000
Oyster	Pleuratous	October- March		Mushroom	1.0qtl	8,000

mushroom	sajorcaju Pleuratous florida Hyspigygu s ulmarius						
Chicks	Vanaraja, Kadaknath , Aseel, RIR,Kaver i	Round year	the	Chicks	10,000		
Duckling	Khaki campbell, White pekin	Round year	the	Duckling	3,000		
Quail	Japanese Quail	Round year	the	 Quail	300		
Vermicompost		Round year	the	Vermicompos t	50qtl	75,000	
Vermiworm		Round year	the	Vermiworm	10 kg	5,000	

# b) Village Seed Production Programme

Name of the Crop / Enterpris e	Variet y / Type	Period From to 	Are a (ha.)	No. of farmer s	Type of Produc e	Details of Expected Production(q	of Produce Cost of input	Expecte d Gross income	Expecte d Net
						,	s (Rs.)	(Rs.)	Income (Rs.)

# 6. Extension Activities

SI.		Noof		F	arm	ers	Exte	ension Off	icials		Total	
No.	Activities/ Sub- activities	No. of activities proposed	Μ	F	Т	SC/ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day	17	-	-	-	-	-	-	-	-	-	900
2.	KisanMela	1	-	-	-	-	-	-	-	-	-	350
3.	KisanGhosthi	2	-	-	-	-	-	-	-	-	-	30
4.	Exhibition	5	-	-	-	-	-	-	-	-	-	1500
5.	Film Show	5	-	-	-	-	-	-	-	-	-	
6.	Method Demonstrations	10	-	-	-	-	-	-	-	-	-	200
7.	Farmers Seminar	05	-	-	-	-	-	-	-	-	-	275
8.	Workshop	5	-	-	-	-	-	-	-	-	-	
9.	Group meetings	18	-	-	-	-	-	-	-	-	-	180
10.	Lectures delivered as resource persons	22	-	-	-	-	-	-	-	-	-	
11.	Advisory Services	55	-	-	-	-	-	-	-	-	-	10850
12.	Scientific visit to farmers field	300	-	-	-	-	-	-	-	-	-	540
13.	Farmers visit to KVK	2200	-	-	-	-	-	-	-	-	-	2200
14.	Diagnostic visits	45	-	-	-	-	-	-	-	-	-	225
15.	Exposure visits	01	-	-	-	-	-	-	-	-	-	30
16.	Ex-trainees Sammelan	02	-	-	-	-	-	-	-	-	-	50
17.	Soil health Camp	02	-	-	-	-	-	-	-	-	-	
18.	Animal Health Camp	01	-	-	-	-	-	-	-	-	-	
19.	Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	
20.	Soil test campaigns	01	-	-	-	-	-	-	-	-	-	300
21.	Farm Science Club Conveners meet	12	-	-	-	-	-	-	-	-	-	300
22.	Self Help Group Conveners meetings	04	-	-	-	-	-	-	-	-	-	100
23.	Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
24.	Celebration of important days (specify) World Food day, World soil day, Agricultural education day, Women in agriculture day, Kishan divas	25	-	-	-	-	-	-	-	-	-	1250
25.	Sankalp Se Siddhi	-	-	-	-	-	-	-	-	-	-	-
26.	Swatchta Hi Sewa	05	-	-	-	-	-	-	-	-	-	250
27.	Mahila Kisan Diwas	01	-	-	-	-	-	-	-	-	-	50
28.	Any Other (Specify) Total	-	-									

# 7. Revolving Fund (in Rs.)

Opening balance of 2021-2022 (As on 01.04.2021)	Amount proposed to be invested during 2022-2023	Expected Return
1,33,301.00	5,00,000/- /-(Approx.)	7,00,000/- /-(Approx.)

# 8. 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. On-farm trials to be conducted\*

#### OFT-1

- i. Season: Pre Rabi,2022
- ii. Title of the OFT: Assessment of Decomposer for in-situ residue management in Rice
- iii. Thematic Area: Residue managemengt
- iv. Problem diagnosed: Environmental pollution due to residue burning in field
- v. Production system: Rice-pulse and Rice fllaow farming system,.

#### vi. Micro farming system: Rainfed Medium land

vii.Technology for Testing: NRRI microbial consortium containing Three microbial strains *Aspergillus awamori* (NRRICPD- COMF5), *Trichoderma viridi* (NRRI-CPD-COMF6) and *Streptomyces sp* (NRRI-CPD-COMA4) decomposes within 45 days of application. Pusa decomposer is a mix of seven fungi strains that produce enzymes to digest cellulose,lignin and pectin in paddy straw. It decomposes within 30 days of application.

# viii. Objective(s): To reduce environmental pollution and to maintain soil health

#### ix. Treatments:

Farmers Practice (FP): Harvesting of rice in combine harvester and burning of residue in the field.

T O<sub>1</sub>:NRRI decomposer @ 10 capsules in 100lit of water with 2 % jaggery solution for 1 ha. T O<sub>2</sub>: PUSA decomposer @ 4 capsules in 25 lit of water with 2 % jaggery solution and pulse powder for 1 ha.

Critical Inputs: Bio decomposer capsules Unit Size: 1 ha

- x. No of Replications: 7
- xi. Unit Cost: 300

#### xii.Total Cost: 2100

- **xiii. Monitoring Indicator:** Cost of Intervention. Soil organic matter content(Before and After), Ease of cultivation (1-5 Scale), Yield of Greengram (next crop)
- xiv. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): Source : ICAR-NRRI, 2021, Source: ICAR- IARI, 2020

- i. Season: Kharif
- ii. Title of the OFT: Assessment of zinc deficiency in lowland rice
- iii. Thematic Area: Soil Science
- iv. Problem diagnosed: Low yield due to Zn deficiency
- v. Production system: Rice-pulse
- vi. Micro farming system: Low land
- vii. Technology for Testing: Technology option-I (TO-I): Soil Test Based Recommendation (STBR) NPK+ Zn @ 5 kg/ha

Technology option-II(TO-II): STBR NPK + 5t FYM ha<sup>-1</sup> + Zn @ 2.5 kg ha<sup>-1</sup>

viii. Existing Practice: FP-To be well defined with respect to that problem and practice

ix. Objective(s): To create awareness about Zn deficiency and its application in proper dose

#### x. Treatments:

Farmers Practice (FP): FP-To be well defined with respect to that problem and practice

Technology option-I (TO-I): Soil Test Based Recommendation (STBR) NPK+ Zn @ 5 kg/ha Technology option-II(TO-II): STBR NPK + 5t FYM  $ha^{-1}$  + Zn @ 2.5 kg  $ha^{-1}$ 

xi. Critical Inputs: Zinc, NPK fertiliser

#### xii. Unit Size: 1ha

- xiii. No of Replications: 7
- xiv. Unit Cost:
- xv. Total Cost:
- xvi. **Monitoring Indicator:** No. of effective tillers /sq m, No. of filled grain per panicle, 1000 grain weight (gm), Yield(q/ha), Economics
- xvii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): AICRP on LTFE, OUAT, Bhubaneswar, Odisha, 2017, AICRP on Micronutrient and Pollutant, OUAT, Bhubaneswar, Odisha, 2016

- i. Season: Rabi
- ii. Title of the OFT: Assessment on brinjal varieties for wilt resistance
- iii. Thematic Area: Varietal evaluation
- iv. Problem diagnosed: Low yield due to wilt incidence in kharif upland
- v. Production system: vegetable-vegetable
- vi. Micro farming system: Rainfed upland
- vii. Technology for Testing: Technology option-I (TO-I): Swarna Ajay Cultivation of bacterial wilt resistant brinjal var Swarna Ajay Technology option-I I(TO1): - Swarna Shakti – Cultivation of bacterial wilt resistant brinjal var Swarna Shakti

viii. Existing Practice: Cultivation of hybrid variety- VNR-212, kutmenda local

ix. Objective(s): To identify wilt resistant high yielding variety

**x.** Treatments:

Farmers Practice (FP): Cultivation of hybrid variety-VNR-212, kutmenda local

#### Technology option-I (TO-I): - Swarna Ajay

Plant height is 50-60cm, intermediate growth habit and broad plant spread, suitable for kharif/ rabi season, fruits are medium size, attractive purple colour, harvest takes place 55-60 days after transplanting, resistant to bacterial wilt and phomopsis blight, yields 70-75 tonnes/ ha

#### Technology option-II(TO-II): - Swarna Shakti

Plant height is 70-80cm, plant is erect and intermediate , suitable for kharif season, fruits are medium size, attractive purple colour, harvest takes place 55-60 days after transplanting, resistant to bacterial wilt and phomopsis blight, yields 70-75 tonnes/ ha

#### xi. Critical Inputs: Brinjal seeds

- xii. Unit Size: 1 ha
- xiii. No of Replications: 7
- xiv. Unit Cost:
- xv. Total Cost:
- **xvi. Monitoring Indicator:**Wilt incidence (%), Fruit wt(g), No of fruits per plant, Yield (q/ha), market price, consumer preference, Yield (q/ha), Cost of intervention. Additional income over additional investment, B:C ratio,
- xvii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): IIHR, 2019, ICAR-RCER-2018-19

- i. Season: Rabi
- ii. Title of the OFT: Assessment on use of plant growth regulators to check flower and fruit drop in mango
- iii. Thematic Area: Crop management
- iv. **Problem diagnosed:** Flower and fruit drop resulting in low yield
- v. **Production system:**
- vi. Micro farming system: Rainfed upland
- vii. Technology for Testing:

Technology option-I (TO-I): Foliar application of Triacontanol @3-5 ppm at panicle initiation, fruit set and marble stage of fruit growth Technology option-II (TO-II): Application of NAA (20ppm) at pea size and marble size of fruit in mango

# viii. Existing Practice: VNR-212

# ix. Objective(s): Control of flower and fruit drop to increase yield

- x. **Treatments:** 
  - i. Farmers Practice (FP): Spraying of Planofix-4ml/16 lit at flowering time and at pea size of fruit
  - ii. Technology option-I (TO-I):

Foliar application of **Triacontanol** @ **3-5 ppm** at Panicle initiation, fruit set, and marble stage of fruit growth enhances fruit retention in mango. Godrej Vipul Booster can be used as a source of Triacontanol which contains 1000ppm of triacontanol.

iii. Technology option-II (TO-II):

Application of **NAA 20ppm** lt of watrer i.e. 1<sup>st</sup> spray when tender fruits are of pea size, 2<sup>nd</sup> spray when fruits are of marble size ( about 2cm diameter) reduce flower & fruit drop & improve fruit quality & yield in mango, improves fruit setting, yield & quality . Expected yield-60-70 kg/plt

- xi. Critical Inputs: Use of growth regulators
- xii. Unit Size:
- xiii. No of Replications: 7
- xiv. Unit Cost:
- xv. Total Cost:
- xvi. **Monitoring Indicator:** % decrease in flower drop, % decrease in fruit drop, fruit weight(gm), Avg. no. of fruits per plant , yield(q/ha), B:C ratio
- xvii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): CHES, 2020, Source: Annual Report, OUAT, 2017-18

- i. Season: Kharif
- ii. Title of the OFT: Assessment of sheath blight management in rice
- iii. Thematic Area: IDM
- iv. Problem diagnosed:Low yield in rice due to heavy incidence of rice sheath blight
- v. Production system:
- vi. Micro farming system: merium land
- vii. Technology for Testing: Technology option-I (TO-I): -Seed treatment with Thiophenate methyl

@1.5g/kg seed and alternate spraying of Trifloxystrobin 25%+ Tebuconazole 50%WG @ 200g/ ha and Thifluzamide 24SC @500 ml/ha from the appearance of the disease

Technology option-II(TO-II): Seed treatment with Carboxyn + Thiram @1.5 g/kg seed and alternate spraying of Propiconazole 13.9 EC +Difenconazole 13.9 EC @500 ml/ha and Azoxystrobin 23% SC@500 ml/ha at 15 days interval

- viii. Existing Practice: Spraying of Hexaconazole 5%EC @ 1.5ml/ltr of water
- ix. **Objective**(s): To control sheath blight incidence

#### x. Treatments:

Farmers Practice (FP): Spraying of Hexaconazole 5%EC @ 1.5ml/ltr of water

Technology option-I (TO-I): -Seed treatment with Thiophenate methyl @1.5g/kg seed and alternate spraying of Trifloxystrobin 25%+ Tebuconazole 50%WG @ 200g/ ha and Thifluzamide 24SC @500 ml/ha from the appearance of the disease

Technology option-II(TO-II): Seed treatment with Carboxyn + Thiram @1.5 g/kg seed and alternate spraying of Propiconazole 13.9 EC +Difenconazole 13.9 EC @500 ml/ha and Azoxystrobin 23% SC@500 ml/ha at 15 days interval

xi. **Critical Inputs:** Thiophenate methyl, Trifloxystrobin 25%+ Tebuconazole 50%, Thifluzamide 24SC, Carboxyn + Thiram, Propiconazole 13.9 EC +Difenconazole 13.9 EC, Azoxystrobin 23% SC

xii.**Unit Size:** 0.5ha

- xiii. No of Replications: 7
- xiv. Unit Cost: 1500
- xv. Total Cost: 10,500
- xvi. Monitoring Indicator: Infected hills /m2, PDI (%), Yield, B:C ratio
- xvii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): Dept. of plant pathology, PAU, 2016 ,DRR, 2015

- i. Season: Rabi
- ii. Title of the OFT: Assessment of IPM practices for management of melon fruit fly in bittergourd
- iii. Thematic Area: IPM
- iv. Problem diagnosed: High infestation of fruit fly in bittergourd during fruiting period
- v. Production system:

#### vi. Micro farming system: Medium land

#### vii.Technology for Testing:

Technology option-I (TO-I): Soil application of chloropyriphos dust around the plant at 30DAG+ placement and spot application of Jaggery 100gm, spinosad (0.4ml) and water 1 ltr poison bait (BAT) and periodic removal and destruction of damaged fruits

Technology option-II (TO-II): Soil application of chloropyriphos dust around the plant at 30DAG+ installation of cue lure @ 20/ha (MAT) and periodic removal and destruction of damaged fruits

Existing Practice: Spraying of Profenophos @ 1ltr/ ha

viii. Objective(s): To reduce the pest load and increase yield

#### ix. Treatments:

- i. Farmers Practice (FP): Spraying of Profenophos @ 11tr/ ha
- ii. Technology option-I (TO-I):- Soil application of chloropyriphos dust around the plant at 30DAG+ placement and spot application of Jaggery 100gm, spinosad (0.4ml) and water 1 ltr poison bait (BAT) and periodic removal and destruction of damaged fruits
- iii. Technology option-II(TO-II): Soil application of chloropyriphos dust around the plant at 30DAG+ installation of cue lure @ 20/ha (MAT) and periodic removal and destruction of damaged fruits
- x. Critical Inputs: chloropyriphos dust, jiggery, Spinosad, cue lure, para pheromone trap

#### xi. Unit Size: 0.5 ha

- xii.No of Replications: 7
- xiii. Unit Cost: 1000
- xiv. Total Cost: 7000
- xv. Monitoring Indicator: No. of fruits affected/ plant , Cost of intervention, Additional income over additional investment, Yield, B:C ratio, % infestation
- xvi. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): RRTTS, ranital, Bhadrak, 2016

- i. Season: Kharif
- ii. **Title of the OFT:** Assessment of the improved techniques for cultivation of Paddy straw mushroom using crumpled straw (*Volvariella volvacea*)
- iii. Thematic Area: IGA
- iv. Problem diagnosed: Low yield from Paddy straw Mushroom from crumpled straw
- v. Production system:

# vi. Micro farming system: Homestead

vii.Technology for Testing: 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% CaCo3, 14-20days 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% CaCo3, 14-20days age spawn at 2% of dry substrate weight and coarsely ground horse gram powder (at 2% dry substrate weight)

## viii. Existing Practice: Rectangular compact method Size-45x60x30cm

Mushroom production by using crumpled paddy straw -5kg with normal practice (soaking in water 6hrs with 2% calcium carbonate), unknown age of spawn, 3% of dry substrate weight), pulse powder 3% dry substrate weight, BE-8-10%

- ix. **Objective(s):** To increase the yield of paddy straw mushroom following improved techniques.
- x. Treatments:

Farmers Practice (FP): Rectangular compact method Size-45x60x30cm Technology option-I (TO-I):- Square compact bed size (30 × 30 cm) Technology option-II (TO-II): - Circular compact bed size -(45 cm diameter, 30 cm height)

# xi. Critical Inputs: Mushroom Spawn, polythene

- xii.Unit Size: 260 beds
- xiii. No of Replications: 13

# xiv. Unit Cost:

# xv. Total Cost: 10400/-

- xvi. **Monitoring Indicator:** Average weight/botton (g),Pin head appearance (days), Biological efficiency(%), Yield(Kg/bed),Net income, BC Ratio
- xvii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): Source: Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore,2012

- i. Season: Rabi
- ii. Title of the OFT: Assessment on value added products from oyster mushroom for higher income.
- iii. Thematic Area: IGA
- iv. Problem diagnosed: Low Income From Oyster Mushroom by direct selling.
- v. Production system:
- vi. Micro farming system: Homestead
- vii. **Technology for Testing:** Technology option-I T O1 Preparation of mushroom soup powder (Fresh mushroom 125 g, corn flour 50 g, milk powder 25 g, salt 8 g, sugar 3 g, black pepper 2 g, Oregano-2 g)
  - Technology option-II T O2 Arka mushroom chutney powder combines the traditional taste and nutritive goodness of mushrooms with traditional healing herbs like Brahmi, Moringa leaves and traditional nutritive seeds like flax seeds, sesame seeds, ground nut and coconut. It is a ready to eat powder and can be easily adopted in mid day meals. It has a shelf life of 3 months in airtight containers/pouches at ambient temperature (26-28°C) which can be extended at lower temperature.
  - 2. Technology option-II T O3 Soaking of mushroom for 6-7 hrs in preservatives (0.6 gm potassium metabisulphite & 10 g citric acid/kg fresh mushroom diluted in one lit normal water) followed by drying in sun for 3 consecutive days
- viii. Existing Practice: Selling of fresh oyster mushroom
- ix. **Objective(s):** To give knowledge and skill on value addition of oyster mushroom for enhancing income.
- x. **Treatments:**
- 1. Farmers Practice (FP): Selling of fresh oyster mushroom
- 2. Technology option-I (TO-I):- Preparation of mushroom soup powder
- 3. Technology option-II (TO-II): Preparation of Arka Mushroom chutney powder
- 4. Technology option-II (TO-III): Drying of oyster mushroom
- xi. Critical Inputs: Chemical and preservatives, spices
- xii. Unit Size:
- xiii. No of Replications: 13
- xiv. Unit Cost:
- xv. Total Cost:
- xvi. Monitoring Indicator: Shelf life (Days), Yield (conversion ratio), Sensory Evaluation, Net income, BC Ratio
- xvii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): Source: AICRP on Mushroom, Annual Report, OUAT, 2020-21, Division of Post harvest technology and Engineering, IIHR Technical bulletin,2020, KVK, Palamau, 2012

- i. Season:
- ii. Title of the OFT: Assessment of the performance of FPOs with varied levels of task and commodity to enhance profitability
- iii. Thematic Area: Group dynamics
- iv. Problem diagnosed: Unorganized farmers fetching low price due to distress sale of farm produce
- v. Production system:
- vi. Micro farming system:
- vii. Technology for Testing:

Technology option-I (TO-I): FPO dealing with a single commodity with a single task i.e., Vegetable-Marketing

Technology option-II (TO-II): FPO dealing with multi-commodity with single task i.e., Pulses, Vegetable, Enterprises-Marketing

Technology option-III (TO-III): FPO dealing with multi-commodity with multi-task i.e., Pulses, Crops

Vegetable, Enterprises- sorting, grading, packing, value addition, Branding, leveling and marketing

Existing Practice: Farmers marketing their produce through intermediaries

viii. **Objective(s):** To assess the performance of FPOs

## ix. Treatments:

Farmers Practice (FP): Farmers marketing their produce through intermediaries

- i. FPO dealing with a single commodity with a single task i.e., Vegetable-Marketing
- ii. FPO dealing with multi-commodity with single task i.e., Pulses, Vegetable, Enterprises-Marketing
- iii. FPO dealing with multi-commodity with multi-task i.e., Pulses, Crops Vegetable, Enterprisessorting, grading, packing, value addition, Branding, leveling and marketing
- x. Critical Inputs: Structured schedule
- xi. Unit Size: 80
- xii. No of Replications:
- xiii. Unit Cost:
- xiv. Total Cost:
- xv. **Monitoring Indicator:** Farmers interest to become a member (Score out of 10) Easy to produce, Easy to sell, Business planning and market linkage with various national and multinational companies, Share capital contributed, Management quality/easy in management (Score out of 10)

Total share capital deposited in the bank, No of FIGs, No of members ,Meeting status ,Type of commodity ,Volume of commodity ,Annual turnover, Annual profit

xvi. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Indian Research Journal of Extension Education 24(4):24-29,2021

- i. Season:
- ii. Title of the OFT: Assessment of different pulse production models
- iii. Thematic Area:
- iv. Problem diagnosed: Varied performance of farmers under different model
- v. Micro farming system:
- vi. Technology for Testing: Technology option-I (TO-I): Approach under CFLD model of Krishi Vigyan Kendra

Technology option-II (TO-II): Model of pulse demonstration under National Food Security Mission of Agriculture dept.

**Existing Practice:** Farming by a group of farmers in their uplands

- vii. **Objective(s):** To study production model of pulse
- viii. Treatments:

Technology option-I (TO-I): Approach under CFLD model of Krishi Vigyan Kendra Technology option-II (TO-II): Model of pulse demonstration under National Food Security Mission of Agriculture dept.

- ix. Critical Inputs: Structured schedule
- x. Unit Size: 30
- xi. No of Replications:
- xii. Unit Cost:
- xiii. Total Cost:
- xiv. **Monitoring Indicator:** Coverage in acreage year-wise (for the last three years)No of the farmers adopted,Success of buyback procedures,Quantity of seeds procured /ha,Profit generated out of seed sale,Change in Knowledge
- xv. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): Proceeding-National Pulses Workshop -2019

## 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.)
01	CFLD	7,00,000.00
02	BGREI	50,000.00
03	ATMA	80,000.00

11. No. of success stories proposed to be developed with their tentative titles: 2 nos

#### 12. Scientific Advisory Committee

Date of SAC meeting held during 2021	Proposed date during 2022
17.12.2021	

# 13. Soil and water testing

Details	No. of Samples	No.	of Fa	rme	rs		No. of Villages	No. of SHC distributed				
	Sampies	SC	C ST Other Total		Other Total		Total		v mages	uistributeu		
		Μ	F	Μ	F	Μ	F	M F T		Τ		
Soil Samples	500	109	22	34	0	308	27	451	49	500	14	500
Water Samples	0	0	0	0	0	0	0	0	0	0	0	0
Other (Please specify)	0	0	0	0	0	0	0	0	0	0	0	0
Total	500	109	22	34	0	308	27	451	49	500	32	500

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

Heads	Expenditure (last year) (Rs.) up to 31.03.2021	Expected fund requirement (Rs.) during 2022-23
i. Pay & allowance		
ii. Contingency	10,98,323.00	2200000.00
iii. TA	1,00,000.00	150000.00
iv. HRD	30,000.00	50000.00
v. SCSP	3,00,000.00	100000.00
Non-recurring (specify)		
i. Works (Road, threshing floor, drying yard, vehicle and implement shed, irrigation system etc.)		
ii. Furniture & Equipment		
iii. Vehicle and tractor		
iv. Library	10,000	30,000
TOTAL	15,38,323.00	34,30,000.00

\* 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