ACTION PLAN 2020-21

1. Name of the KVK: Krishi Vigyan Kendra, Puri

Address	Telephone		E mail
Krishi Vigyan Kendra, At/Po- Sakhigopal, Dist-	06752273960	067522739	kvkpuri.ouat@gmail.com,
Puri, Pin-752014, Odisha		60	purikvk@yahoo.co.in

2.Name of host organization:

Address	Telephone		E mail
	Office	FAX	
Orissa University of Agriculture & Technology	(0674)-2397970/		registrarouat@gmail.com
Bhubaneswar-751003 Odisha, India.	2397818/		
	2397719/		
	2397669 /		
	2397719 /		
	2397919 /		
	2397868		

3.Training programme to be organized (April 2020 to March 2021)

(a) Farmers and farmwomen

Thematic	Title of Training	No.	Duration		Tentative			No	of I	Parti	cipa	nts		
area				On/Off	Date	S	C	S	T	Ot	her		Γota	al
						M	F	M		M	F	M	F	T
Agronomy	Scientific production practices of boro rice cultivation	F & FW	01											25
Agronomy	Production technology of rice in saline soil	F & FW	01											25
Agronomy	Integrated weed management in paddy	F & FW	01											25
Agronomy	Scientific production practices of blackgram	F & FW	01											25
Agronomy	Scientific production practices of greengram	F & FW	01											25
Horticulture	Management of fruit nursery	F & FW	01											25
Horticulture	Scientific methods of off season Tomato cultivation	F & FW	01											25
Horticulture	Scientific cultivation Practices of Spine gourds	F & FW	01	1										25

1

Horticulture	Marigold cultivation	F &	01				 	25
Tiorneulture	for Income	FW	O1					23
	Generation	1 ,,						
Horticulture	Improved methods	F &	01					25
	of vegetable nursery	FW	V -					
	raising							
Horticulture	Pineapple	F &	01					25
	cultivation as	FW						
	intercrop in Coconut							
	Orchard							
Horticulture	Offseason Vegetable	F &	01					25
	cultivation	FW						1
Horticulture	Scientific Beetle	F&	01					25
DI	vine Cultivation	FW	0.1					25
Plant	Stem Borer	F&	01					25
Protection	management in Paddy	FW						
Plant	BPH / WBPH	F &	01					25
Protection	management in	FW						
	Paddy							
Plant	Integrated	F &	01					25
Protection	management	FW						
	practices of							
Di	Neckblast in Paddy	T 0	0.1					10.5
Plant	Integrated pest	F&	01					25
Protection	management of	FW						
Plant	YMV in Greengram Red palm weevil	F &	01					25
Protection	and eryophid	FW	UI					23
Trotection	management in	1. 44						
	coconut							
Plant	Integrated	F &	01					25
Protection	management of	FW	V -					
	nematode in Betel							
	vine							
Plant	Management of	F &	01					25
Protection	Spodoptera in	FW						
	Groundnut							
Plant	Integrated	F &	01					25
Protection	management of	FW						
	Thrips and mites in Chilli							
Plant	IPM measures to	F &	01			+ +	1	25
Protection	control shoot and	FW						
	fruit borer in Brinjal							
Plant	Leaf miner	F &	01					25
Protection	management in	FW						
	Tomato			<u> </u>			1	
Agril.	Technique of MAT	F&	01					25
Engineering	type nursery raising	FW						

	for using 6-row Self Propelled Rice Transplanter							
Agril. Engineering	Use of Drum Seeder for Direct seeded Rice Cultivation	F & FW	01					25
Agril. Engineering	Operation & maintenance of Dry land Power Weeder	F & FW	01					25
Agril. Engineering	Calibration of Seed cum fertilizer drill for sowing Greengram	F & FW	01					25
Agril. Engineering	Principles of working operation of Tractor drawn Groundnut Thresher	F & FW	01					25
Agril. Engineering	Care and maintenance of Drip irrigation system in Pointed gourd	F & FW	01					25
Agril. Engineering	Use of mulching in horticultural crops	F & FW	01					25
Agril. Engineering	Operation and maintenance of low cost weeding implements in field crops	F & FW	01					25
Agril. Engineering	Operation and maintenance of different types of Potato digger	F & FW	01					25
Agril. Engineering	Cost benefit of Whole straw Paddy thresher for bundle straw production	F & FW	01					25
Home Science	Mushroom cultivation for household nutritional security and income generation	F & FW	01					25
Home Science	Preparation of Paper bags by SHG members for marketing of mushroom	F & FW	01					25
Home Science	Methods of seedling raising in using different media	F & FW	01					25

Home Science	Use of Grain storage Bags	F & FW	01				25
Home	Management of	F &	01				25
Science	Chicks Brooding	FW	01				
Home	Semi-intensive	F &	01				25
Science	backyard poultry	FW					
	management						
Home	Crop planning &	F &	01				25
Science	management of	FW					
	Nutri-Sensitive						
	Organic Kitchen						
	Garden						
Home	Preparation of	F &	01				25
Science	Vermicompost from	FW					
	Kitchen waste						
Home	Post harvest	F &	01				25
Science	management of	FW					
	vegetables		0.1				
Home	Preparation of	F&	01				25
Science	Pickles from Oyster	FW					
T' 1	Mushroom	ГО	0.1				25
Fishery	Pre stocking pond	F&	01				25
	management	FW					
Eighory	practices Stocking and post	F &	01				25
Fishery	Stocking and post stocking pond	FW	01				23
	management	1. 44					
Fishery	Composite fish	F &	01				25
1 ishery	culture	FW	01				
Fishery	Short term culture of	F &	01				25
	Minor carps in	FW	0.1				
	Seasonal rainfed						
	ponds						
Fishery	Multiple stocking	F &	01				25
	and multiple	FW					
	harvesting in pond						
	culture						
Fishery	Feeding	F &	01				25
	management for	FW					
	carp culture						
Fishery	Fish diseases and	F &	01				25
	their management	FW					
Fishery	Culture practices of	F &	01				25
	Amur carp with	FW					
T' 1	IMC	Т.0	0.1				105
Fishery	Fattening of crabs in	F&	01				25
	Brackish water	FW					
Fishery	ponds Integrated fish	F &	01		+ +		25
1 1511C1 y	Farming	FW	U1				
	1 aming	T. AA					

Agril.	Enriching farmers		01						
Extension	profitability through	F&							25
	FPO formation &	FW							25
	management								
Agril.	Up gradation of	F&	01						
Extension	farmers skill through	FW							25
	electronic media	1. 44							
Agril.	Various marketing		01						
Extension	opportunities &	F&							25
	production planning	FW							23
_	in vegetables								
Agril.	Team management		01						
Extension	skills for enhancing	F&							25
	effectiveness of	FW							
	team								
Agril.	Role of ICT for the	F&	01						25
Extension	benefits of farmers	FW							25
A '1	in digital india		0.1						
Agril.	Entrepreneurship	ГО	01						
Extension	development of	F&							25
	farmers in rural	FW							
Agril.	setup Various		01						
Extension			01						
Extension	governmental schemes related to	F&							25
	major enterprises in	FW							23
	the district								
Agril.	Doubling farmers'	F&	01						
Extension	income through IFS	FW	0.1						25
Agril.	Role of ITKs in		01						
Extension	promotion of	F&							25
	organic farming in	FW							25
	the district								
Agril.	Leadership skills	F&	01						
Extension	development in	FW FW							25
	agriculture	L AA							

(b) Rural youths

Thematic	Title of	No.	Duration	Venue	Tentative			No.	of]	Parti	icipa	ants		
area	Training			On/Off	Date	S	С	S	Γ	Otl	ner]	Γota	ıl
						M	F	M	F	M	F	M	F	T
Plant	Honey bee	1	02											20
Protection	cultivation													
Plant	Production of	1	02											20
Protection	biopesticide													
Ag.Engg.	Custom hiring of	1	02											20
	self propelled													
	Paddy Reaper													
Ag.Engg.	Repair and	1	02											20

	maintenance of threshing implements in Paddy						
Ag.Engg.	Repair and maintenance of Powertiller	1	05				10
Home Science	Integrated farming for doubling farmers income	1	02				20
Home Science	Entrepreneurship development through Beekeeping	1	02				20
Home Science	Food processing and preservation for income generation and to minimize post harvest loss	1	05				10
Fishery	Carp seed production technique	1	03				20
Fishery	Breeding and culture of ornamental fish	1	03				20
Fishery	Rearing of carp fry, fingerlings and yearlings	1	05				10
Agril. Extension	Agri -business skills development among poultry farmers for maximizing farm income.	1	02				20
Agril. Extension	Entrepreneurship development through duck farming	1	02				20

(c) Extension functionaries

Thrust	Title of	No	Duratio	Venue	Tentative				No. (of Pa	rtici	pants		
area/ Thematic	Training	•	n	On/Off	Date	S	C	S	T	Ot	her		Tota	l
						M	F	M	F	M	F	M	F	T
area														
Plant	Integrated	1	02											20
Protection	disease and													

	1
	20
	20
	20
	20
	20
	15
	15
	20
	20
	20

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

Farmers and Farm women

Thematic Area	No. of No. of Participants Courses Other SC ST					Gran	d Tot	al					
	Courses		Other			SC			ST				
	1	M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	1												25
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management	4												100
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
TOTAL	5												125
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value													
crops													
Off-season vegetables	1												25
Nursery raising	2												50
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses,													
Shade Net etc.)													
Others, if any (Cultivation of Vegetable)	2												50
TOTAL													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit	1												25
Management of young plants/orchards										<u> </u>	<u> </u>	igspace	<u> </u>
Rejuvenation of old orchards	<u> </u>											<u> </u>	
Export potential fruits	<u> </u>											<u> </u>	
Micro irrigation systems of orchards	<u> </u>											<u> </u>	
Plant propagation techniques	<u> </u>											<u> </u>	
Others, if any(INM)	<u> </u>											<u> </u>	
TOTAL	<u> </u>											<u> </u>	
c) Ornamental Plants													

Thematic Area	No. of			No	o. of Pa	articipa	ants				Gran	d Tot	al
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental													
Plants													
Others, if any	1												25
TOTAL													
d) Plantation crops													
Production and Management technology	1												25
Processing and value addition													
Others, if any													
TOTAL	8												200
e) Tuber crops													
Production and Management technology													
Processing and value addition												1	
Others, if any													
TOTAL													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value													
addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility													
Management													
Soil fertility management													
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												<u> </u>	
IV. Livestock Production and								<u> </u>					
Management													
Dairy Management			1									 	
Poultry Management													
Piggery Management													
Rabbit Management			1									 	
Disease Management			1									1	

Thematic Area	No. of			No	o. of Pa	articipa	ants				Gran	d Tot	al
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Feed management													
Production of quality animal products													
Others, if any (Goat farming)													
TOTAL													
V. Home Science/Women empowerment													
Household food security by kitchen	2												50
gardening and nutrition gardening	2												30
Design and development of low/minimum													
cost diet													
Designing and development for high													
nutrient efficiency diet													
Minimization of nutrient loss in	1												25
processing	1												
Gender mainstreaming through SHGs													
Storage loss minimization techniques	1												25
Enterprise development	3												75
Value addition	1												25
Income generation activities for	2												50
empowerment of rural Women	2												
Location specific drudgery reduction													
technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
TOTAL	10												250
VI.Agril. Engineering													
Installation and maintenance of micro	1												25
irrigation systems	1												
Use of Plastics in farming practices	1												25
Production of small tools and implements	1												25
Repair and maintenance of farm	2												75
machinery and implements	3												
Small scale processing and value addition													
Post Harvest Technology	2												50
Others, if any	2												50
TOTAL	10												250
VII. Plant Protection													
Integrated Pest Management	6												150
Integrated Disease Management	2												50
Bio-control of pests and diseases	2												50
Production of bio control agents and bio										İ	İ	1	
pesticides													
Others, if any													
TOTAL	10									İ	İ	1	250
VIII. Fisheries													
Integrated fish farming	1												25
Carp breeding and hatchery management												1	

Thematic Area	No. of			No	o. of Pa	articipa	ants				Gran	d Tot	al
	Courses		Other			SC			ST				
	1	M	F	T	M	F	T	M	F	T	M	F	T
Carp fry and fingerling rearing	2												50
Composite fish culture & fish disease	5												125
Fish feed preparation & its application to													
fish pond, like nursery, rearing & stocking	2												50
pond													
Hatchery management and culture of													
freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition	†												
Others, if any													
TOTAL	10												250
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production	+												
Production of fry and fingerlings													
Production of Bee-colonies and wax													
sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any TOTAL													
X. Capacity Building and Group													
Dynamics Leadership development	1												25
Leadership development	1												
Group dynamics	1												25
Formation and Management of SHGs													50
Mobilization of social capital	2												50
Entrepreneurial development of	1												25
farmers/youths													
WTO and IPR issues													50
Others, if any	2												50
(ICT)	1												25
Market led extension	1												25
	_												
IFS	1												25

Thematic Area	No. of	No. of Participants									Gran	d To	tal
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
ITK													
TOTAL	10												250
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL	63												1575

Rural youth

Thematic Area	No. of				No. of	f Partic	ipants				G	rand To	tal
	Courses		Other	r		SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping	2												40
Integrated farming	2												40
Seed production													
Production of organic													
inputs													
Planting material	1												20
production	1												
Vermi-culture													
Sericulture													
Protected cultivation of													
vegetable crops													
Commercial fruit													
production													
Repair and maintenance													20
of farm machinery and	1												
implements													
Nursery Management of													
Horticulture crops													
Training and pruning of													
orchards													<u> </u>
Value addition	1												10
Production of quality													
animal products													<u> </u>
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries	1												20
Para vets													

Thematic Area	No. of				No. of	f Partic	ipants				G	rand To	otal
	Courses		Other	•		SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Para extension workers													
Composite fish culture													
Freshwater prawn													
culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and													
processing technology													
Fry and fingerling	1												20
rearing	1												
Small scale processing													
Post Harvest													
Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development	1												20
Others if any (GROUP	1												20
DYNAMICS)	1												
TOTAL	11												210

Extension functionaries

Thematic Area	No. of				No. of	f Partic	ipants				Grand	Total	
	Courses		Other	r		SC			ST				
	1	M	F	T	M	F	T	M	F	T	M	F	T
Productivity													
enhancement in field													
crops													
Integrated Pest	2												40
Management	2												
Integrated Nutrient													
management													
Rejuvenation of old													
orchards													
Value addition													
Protected cultivation	1												20
technology	1												
Formation and	1												20
Management of SHGs	1												
Group Dynamics and													
farmers organization													
Information networking													
among farmers													
Capacity building for	1												20
ICT application	1												

Care and maintenance							20
of farm machinery and	1						
implements							
WTO and IPR issues	1						20
Management in farm							
animals							
Livestock feed and							
fodder production							
Household food	1						20
security	1						
Women and Child care							
*							
Low cost and nutrient							
efficient diet designing							
Production and use of							
organic inputs							
Gender mainstreaming							
through SHGs							
Crop intensification							
Others if any							30
Fish Health Mgnt	2						
	2						
Probiotics in							
Aquaculture							
TOTAL	10						190

4. Frontline demonstration to be conducted*

a.

Sl.no	Crop	Thrust Area:	Thematic Area:	Season:	Farming Situation:
1	Paddy	Varietal substitution for better yield	Varietal evaluation	Rabi	Rainfed lowland Paddy
2	Paddy	Varietal substitution for better yield	Varietal evaluation	Kharif	Rainfed lowland Paddy-fallow
3	Paddy	IWM in Paddy	Weed Management	Kharif	Rainfed lowland paddy -greengram
4	Chilli	Reduced yield loss through IPM	IPM	Rabi	Medium land, irrigated, sandy loam
5	Paddy	Reduced yield loss through IPM	IPM	Rabi	Low land,irrigated, Clay loam
6	Betel vine	To popularize IDM in betelvine	IDM	Rabi	Low land,irrigated, Clay loam
7	Greengram	To promote farm mechanisation and agro processing	Farm mechanization	Rabi	Rainfed Low land Paddy - Greengram
8	Banana	To promote farm mechanisation and agro processing	Farm mechanization	Kharif	Irrigated Up land
9	Groundnut	To promote farm mechanisation and agro processing	Farm mechanization	Rabi	Irrigated Medium land Fallow-Groundnut
10	Pointed gourd	To promote micro irrigation with moisture conservation & weed control	Micro irrigation	Rabi	Irrigated Medium land Paddy-vegetables
11	Spine gourd	Varietal substitution of vegetable crops for better yield	Varietal substitution	Kharif	Irrigated medium land

12	Pineapple	Varietal substitution of fruits for better yield	Income generation, Varietal evaluation	Round the year	Medium Land
13	Marigold	Varietal substitution for better yield	Varietal substitution	Rabi	Irrigated –Medium land
14	Tomato	Varietal substitution of vegetable crops for better yield	Varietal substitution	Rabi	Irrigated –Medium Land
15	Fish	Species diversification	Production and management	Round the year	Pond based, Rainfed
16	Crab	Crab fattening	Production and management	Kharif	Rainfed brackish water
17	Fish	Integrated farming system	Production and management	Round the year	Pond based, Rainfed
18	Fish	Disease management	Disease management	Round the year	Pond based, Rainfed
19	Vegetables & Fruits	To address household food security	Nutritional food security	Round the year	Backyard
20	Poultry	To emphasize on entrepreneurship development	Income generation	Rabi	Semi intensive poultry farming. Backyard, Free ranging
21	Mushroom	To emphasize on entrepreneurship development	Income generation	Kharif	Backyard Coconut Orchard
22	Poultry	To emphasize on entrepreneurship development	Income generation	Rabi	Semi intensive poultry farming. Backyard,

b.

Sl.	Crop &	Proposed	Technology package for	Parameter	Cost of C	Cultivatio	n (Rs.)		No.	of far	mer	s / de	mon	stra	tion	
No	variety /	Area	demonstration	(Data) in				SC		ST		Oth	ıer	Tot	al	
•	Enterpri	(ha)/		relation to	Name of	Demo	Local		1		1		1		1	-
	ses	Unit(No.)		technology demonstrated	Inputs			M	F	M	F	M	F.	M	F.	T
1	Paddy &	4.0 ha,	Demonstration of Boro rice													8
1	1 addy &	7.0 na,	paddy var. CR Dhan	2												
	var. CR	8 Nos.		No of Filled												
	Dhan	0 1 (05.	Rabi	grains/Panicle,												
	307(Mau			grams/r amere,												
	damani)		FP-Kalasura	1000 grain												
				weight												
			RP- Medium duration													
			(135days) , height -100-													
			110cm, released in 2014,													
			exhibit moderately tolerance													
			reaction to disease like Leaf													
			Blast, Neack blast and Brown													
			Spot, yield: 4.8t/ha													
			Nursery - last week of October													
			to mid September, time of													
			sowing -25 Oct. to 15 Nov.													
			Keep seedlings 18-20 cm													
			high. Use of ash at interval of													
			15 days, cover of seedlings by													
			plastic sheet in night and													
			remove plastic sheet in day.													
			Keep seedlings 5-6 cm in													
			standing water, Place the													
			seedlings 4-5 per hill at a													
			spacing of 20x10-15 cm.													
			Depending upon the soil													
			condition, apply 120-150 kg													
			N, 60-75 kg P2O5 and 50-80													
			kg K2O along with 20kg/ha of													
			ZnSO4 . 12-15 irrigation													

2	Rice	2 ha	Demonstration of salt	Initial & Final	10
			tolerant rice variety: Luna	soil test	
	&	10 Nos.	Suvarna during kharif	value(pH, EC)	
				Effective	
	Var. :		FP- Lalmedi(150days)	panicles/m2,	
	Luna		• /	No of Filled	
	Suvarna		RP- Cultivation of saline	grains	
				/Panicle, 1000	
			Suvarna(CR-DHAN-403)	grain weight	
			suitable to coastal saline soil,		
			150 days duration, Height:		
			135 cm, Avg yield: 3.5- 4.0		
			t/ha, Resistant to Blast,		
			Tolerance to Stem Borer,		
			BPH, Leaf folder.		
			Sowing of green manure crop		
			Dhaincha (Sesbania aculeata)		
			seeds @ 25kg /ha and		
			incorporating it in soil at 6 th		
			week before one week		
			transplanting in the main field		
			adds 4-5 t/ha green matter		
			which results in addition of		
			organic matter. As a result		
			there is improvement of soil		
			physical properties and		
			reduction in soil salinity due		
	D:	21	to chelation of the free Na ion	XX 1 Cl	10
3	Rice	2ha	Demonstration of	Weed flora	10
		10 N		composition,	
		10 Nos.	management in	Weed control	
			transplanted rice during kharif		
			КПАГП	Effective panicles/m2,	
			ED Two handwooding at 45	No of Filled	
			FP- Two handweeding at 45 and 65 DAS	grains grains	
			and 03 DAS		
				/Panicle, 1000	

			RP- Pre émergence	grain weight	
			application of herbicide		
			(Bensulfuron methyl 0.6%+		
			Pretilachlor 6.0%) @ 10 kg/ha		
			at 3 DAT and post emergence		
			application of penoxsulan		
			21.7SC @ 20g ai/ha at 15		
			DAT.		
4	Chilli	1 ha	Demonstration of integrated	No of	10
-	Ciliii	1 11α	management of thrips &		10
		10 Nos.	mites in chilli	of	
		10 1105.	FP- Low yield due to high		
			infestation of mites and thrips	leaves	
			in chilli	leaves	
			RP- Integrated management		
			in combination with		
			mechanical ,botanical and		
			chemical measures		
			Soil application of neem cake		
			@2.5 qt/ha,Installation of		
			Blue sticky traps @50nos/ha,		
			& need based application of		
			Difenthiuron @1gm/lt &		
			Spiromesifen 240 SC @		
			0.6ml/ lit alternately at 10		
_	D- 11	1 1	days interval	NI ₂ of militar	10
5	Paddy	1 ha.	Demonstration of Integrated		10
		10 Nos	management of Stem borer	ear heads / m ²	
		10 Nos.	in Summer Paddy	No of egg	
			ED Constinue of triangulary	mass/m2,	
			FP- Spraying of triazophos/	No. of dead	
			propenophos/cypermethrin		
			DD Nursony treatment	heart/sq.mt	
			RP- Nursery treatment with		
			cartap hydrochloride 4G@ 0.8		
			kg per hactare, + twice		
			spraying of neem oil 3000ppm		
			@3ml/lit and Indoxacarb		

			18.5SL@1ml/litre at 50DAT at 15 days interval + twice release of T. chilonis @ 50,000/ha 7days after each spraying.							
6	Betel vine	0.4ha 5 Nos.	Demonstration of Integrated management of Nematode in betel vine FP- Use of Furadon/Chloropyriphos dust pesticides RP-Planting of Bengal yellow as trap crop, Soil application of VAM @ 15gm/plant and Neem cake @ 100gm/ sqr.mtr at 6" deep trench around the root zone	infestation ,Leaf Yield/ha, No.						10
7	Greengra m	2.0ha 8 Nos.	Demonstration of tractor drawn Multi crop Seed cum Fertilizer drill for mechanized line sowing of Greengram in Rabi season FP- Broadcasting method of sowing seeds RP- Tractor drawn Multi crop Seed cum Fertilizer drill - Field capacity – 0.4ha/h, sowing of seeds in 9 row with the help of tractor operated Seed cum Fertilizer drill with vertical rotor feed mechanism and shovel type Furrow opener	requirement (MDs/ha), No						8

8	Banana	1.0ha	Demonstration of Dry Land	Field	10
			Power Weeder in Banana	capacity(ha/h),	
		5 Nos.	Orchard	Labour	
				requirement(
			FP- Use of spade for weeding	MDs/ha),	
				Weeding	
			RP- (4-stroke Petrol engine) –	index, plant	
			Weeding, hoeing and ridging		
			are possible for the row	fuel	
			spacing of 60cm - 90cm.	consumption	
			Capacity – 0.08ha/h		
				(lit / h)	
9	Groundn	2.0ha	Demonstration of Tractor	Threshing	10
	ut		drawn Groundnut Thresher	capacity(q/h),	
		10 Nos.		Labour	
			FP- Hand beating followed by	requirement(
			plucking	MDs/q)	
				percentage of	
			RP- Tractor operated		
			Groundnut Thresher for	Threshing	
			different groundnut varieties-	efficiency(%),	
			Threshing of groundnut pods		
			can be done in the field itself	efficiency(%)	
			without transporting to the		
			threshing yard - 500-550 kg/h,		
			Threshing efficiency – 85- 90%		
10	Pointed	0.4ha	Demonstration of Drip	Irrigation	03
10	gourd	0. 7 11a	irrigation with mulching in	interval,	03
	gourd	03 units	Pointed gourd	weeding cost,	
		05 units	I omica godia	Irrigation	
			FP- No mulching with flood		
			irrigation	(mm)	
			<i>3</i>		
			RP- Use of 50 micron mulch		
			film with drip irrigation		
			(emitter discharge 4lph)		
			operating for 70-80 minutes in		

			winter and 80-155 minutes in						
			summer in alternate days.						
			I						
			Water use efficiency will be						
			increased by 30-40%, yield						
11	a .	4.1	enhancement (15-20)%	27 0 0 1					1.0
11	Spine	1 ha	_	No. of fruits					10
	gourd &		gourd variety Arka	per plant,					
		10 Units	Neelachal Shree						
	Var. Arka			yield (q/ha)					
	Neelachal		FP- Local Prevalent Var.						
	Shree								
			RP- Use of variety Arka						
			Neelachal Shree						
			Excellent culinary quality. It						
			has the yield potential of 4-5						
			kg fruits /plant. The number of						
			fruits/vine varies 270-290 and						
			fruit weight 11-13g. Fruit is						
			soft seeded with soft spine. It						
			is moderately tolerant to						
			anthracnose and downy						
			mildew						
12	Pineapple	1ha	Demonstration on	No.of					10
	&		Intercropping of Pine apple						
		10 Units	Queen var. in Coconut						
	var.	10 011105	Orchard	7.223					
	Queen		0101111111	No.of					
	Queen		FP- Sole cropping without						
			intercrop	Traits/plant					
			meererep	Avg. fruit					
			RP- Cultivation of Pine apple	weight(Kg),					
			Queen var. as a component	weight(ixg),					
			crop in coconut Orchard	Yield (q/ha)					
			crop in coconat Orchard	riciu (q/iia)					
			Cultivation of pineapple in						
			interspaces in coconut						
			orchard. Planting in flat bed						

	1	1	1.1	I	T T	1	1	1	1	1	- 1	1	
			with row to row spacing 2ft										
			and plant to plant spacing 1ft										
			leaving 2.5m distance from										
			coconut plant. The average										
			yield is 50-80 tonnes/ha										
			depending upon spacing and										
			cultural practices. Fruit										
			weighs 0.9-1.3 kg. Suitable for										
			table purpose										
13	Marigold	1ha	Demonstration of marigold	Flower									10
	&		variety Bidhan marigold- 2	diameter(cm),									
		10 Units											
	Var.		FP- Use of Var. Seracole	No. of									
	Bidhan			flowers/ plant,									
	marigold-		RP- Use of Var. Bidhan	1									
	2			Flower yield									
			Marigold-2	(q/ha)									
			8	(4)									
			Number of flowers per plant										
			(128flowers/plant). The										
			flowers are attractive, orange										
			in colour, compact and found										
			suitable for making garland,										
			Flower dia- 4cm, Yield- 285										
			kg/plant										
14	Tomato	2 ha	Demonstration of triple	Wilt incidence									10
1 '	&	2 114	resistant (early blight,										10
		10 units	bacterial wilt, leaf curl	early blight,,									
	Var. Arka	10 611165	virus) tomato var. Arka	Fruit wt(g),									
	Rakhyak		Rakhyak	No of fruits									
				per plant,									
			FP- Var. Chiranjiv	Yield (q/ha)									
			Ti var. Cinianjiv	11010 (4/110)									
			RP- Tripple resistant tomato										
			variety Arka Rakhyak										
			, and the reality and										
			High yielding F1 hybrid										
			developed by crossing IIHR-										
		l .	developed by clossing intik-										

			2834 X IIHR-2833. First F1 hybrid with triple disease resistance to ToLCV, BW and early blight. Fruits square round, large (90-100g), deep red colored and firm. Suitable for fresh market and processing. Yield: 75-80 t/ha in 140 days.							
15	Fish	6.0 ha, 20 units	· ·	Length & Weight, FCR, Plankton density					20)
16	Crab	2.0 ha 5 units	Demonstration on fattening of water crab, Scylla serrata FP- Culture of crabs without proper stocking density RP- Fattening of water crabs by stocking the crabs @ 1 no./m² and feeding chopped trash fish @ 5 % body weight	Body weight, carapace hardness					5	
17	Fish	4.0ha 10 Units	Demonstration of pond based IFS for doubling farmers' income FP- Practising only	Growth parameters of fish i.e. Length & Weight,					10)

			pisciculture by stocking IMC fingerlings RP- Stocking of yearlings of IMC @ 5000 nos/ha, planting of papaya, banana and drumstick on pond dyke+ Mushroom+ Poultry	Kg/Bed Wt /Bird	
18	Fish	2.0 ha, 5 Units	Demonstration on use of Ivermectin in controlling Argulosis FP- Use of traditional fish feed and no use of chemicals for disease control RP- Application of Paracure I. V. (Ivermectin 2 % w/w) @ 250 gm/ 1 ton traditional fish feed fed @ 5-3% of body weight daily for 4 days to control Argulosis	age, average body weight, DO, Plankton, Alkalinity	5
19	Vegetabl es & Fruits	4 ha 5 Units	Demonstration of Nutrition Sensitive Organic Kitchen garden for better Health & additional income of farm family (COVID-19) FP- Kitchen garden with 2/3 seasonal vegetables RP- Nutrition Sensitive Organic Kitchen garden (0.08ha) with multiple crops	capita availability (g/day) RDA(%)	5

			including annuals, perennials.	annum(Kg)						
			Structured Garden with high yielding varieties of vegetables, leafy vegetables, curry leaf, coriander and intercropped with Medicinal Plants, Marigold and French beans. In the border, on the fences:-Cucurbits and tuber crops. Few perennials which are grown along the border. Moreover it is cultivated in a purely organic mode with a bunch of sustainable technologies such as use of							
			bioinputs and natural resources							ı
20	Poultry &	400 Birds	Demonstration on backyard							10
	Breed	10 Units	poultry breed Kadaknath	at 1 month, 2 month 4						
	Kadaknat	10 Omis	FP- Local breed rearing Banaraja	month and at						
	h			start of						
			RP- Rearing of Low Input type	laying,						
			desi chicken Kadaknath	Г						
			Kadaknath birds body weight at 20 weeks 1170 gms, average annual egg production 190,	Egg production per annum						
			production parameters show tolerance to acute stress conditions							

21	Mushroo m	400 Beds 10 Units	production of paddy straw mushroom with Crumbled straw FP- Production of paddy straw mushroom from rotten straw in rainy season	Days to 1 st pin head appearance, Weight of fruiting body (g/fruit) Biological						10
			RP-Production of paddy straw mushroom with Crumbled straw Crumbled paddy Straw-5kg, pulse powder 3%, soaking period of straw-5hrs	efficiency (%)						
22	Poultry	400 Chicks 2 Units	Demonstration on artificial brooding management in chicks FP- No management in brooding period RP- Artificial brooding of chicks Brooding management for 21 days with floor space of 0.3 sq.ft/bird with help of chick guards, artificial heat @ 1-3 watt per chick , feeders and drinkers @ 1 each per 50 chicks, vaccination with against RD on 7th day, 28 day, IBD on 14th day . Use of electrolytes, preventive antibiotics during brooding.							10

Extension and Training activities under FLD:

Activity	Title of	No.	Clientele	Duration	Venue	No	o. of Pa	rticipa	ants					
	Activity				On/Off	!	SC		ST	O	ther	Т	otal	
						M	F	M	F	M	F	M	F	T
Training	Operation & maintenance of Dryland Power Weeder	1	F & FW	01	Off									25
Field day	Field Day on use of Power Weeder	1	F & FW	01	Off									50
Training	Calibration of Seed cum fertilizer drill for sowing Greengram	1	F & FW	01	Off									25
Field Day	Field day on use of Tractor drawn Seed cum fertilizer drill for sowing Greengram	1	F&FW	01	Off									50
Training	Principles of working	1	F&FW	01	Off									25

	operation of Tractor drawn Groundnut Threshers									
Field Day	Field Day on use of Tractor drwn Groundnut Threshers	1	F&FW	01	Off					50
Training	Care and maintenance of drip irrigation system in Pointedgourd	1	F&FW	01	Off					25
Field Day	Field Day on Use of Drip with mulching in Pointedgourd	1	F&FW	01	Off					50
Training	Stem borer management in Paddy	1	F&FW	01	Off					25
Field day	Field day on stem borer management in Paddy	1	F&FW	01	Off					50

Training	Thrips and mites management in Chilli	1	F&FW	01	Off				25
Field Day	Field Day on thrips management in Chilli	1	F&FW	01	Off				50
Field Day	Field Day on weed management in Paddy	1	F&FW	01	Off				50
Field Day	Field Day on salt tolerant rice varieties	1	F&FW	01	Off				50
Field Day	Field Day on boro rice	1	F&FW	01	Off				50
Field Day	Field Day on organic nutritional garden	1	F&FW	01	Off				50
Field Day	Field Day on Kadaknath poultry management	1	F&FW	01	Off				50
Field Day	Field Day on brooding management	1	F&FW	01	Off				50

	of poultry								
Field Day	Field Day on mushroom cultivation in loose straw	1	F&FW	01	Off				50
Field Day	Field Day on pine apple in coconut orchard	1	F&FW	01	Off				50
Field Day	Field Day on spine gourd cultivation	1	F&FW	01	Off				50
Field Day	Field Day on marigold cultivation	1	F&FW	01	Off				50
Field Day	Field Day on tomato variety Arka Rakhyak	1	F&FW	01	Off				50
Field Day	Field Day on crab culture	1	F&FW	01	Off				50
Field Day	Field Day on composite pisciculture	1	F&FW	01	Off				50
Field Day	Field Day on pond based IFS for doubling		F&FW	01	Off				50

	farmers'									
	income									
Field Day	Field Day on	1	F&FW	01	Off					50
	use of									
	Ivermectin in									
	controlling									
	Argulosis									

 $[\]boldsymbol{*}$ 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	Variety /	Period	Area (ha.)	Details of Pro	oduction			
Crop / Enterprise	Туре	Fromto		Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	Pooja/ Kalachampa (Qtls.)	June-Jan	12 ha	Seed	480			
Blackgram	PU-31(Qtls.)		6 ha	Seed	15			
Papaya	Vinayak/Hone ydew	July-Sept		Seedling	4000 no			
Coconut	Sakhigopal Local			Seedling	400 no			
Marigold	Serakole	Sept		Seedling	2000no			
Broccoli	KTS-1	Sept		Seedling	400 no			
Red cabbage	NS-1456/ NS- 1460	Sept		Seedling	400 no			
Capsicum	N-10/ Carlifornia wonder	Sept		Seedling	1000no			
Tomato	Arka rakhyak	July		Seedling	5000 no			
Fish fingerling &	IMC, Amur carp, Java	June 2020- Feb 2021	0.2ha	fingerling & yearling	120,000 no			

yearling	punti				
		April-March	5 tanks	Fry of	1,000 no
ornamental	platy, molley,			ornamental	
fish	guppy			fish	
		April-March	Tank-6ft	Compost	10 q
Vermicompo					
st (qtl)	E. foetida		Tank-4ft		
Vermiculture		April-March		Culture	10kg
(kg)	E. foetida				
Paddy straw		June-Oct	100 Beds	Mushroom	2 q
mushroom					
(kg)	V.volvacea				
Oyster		Nov-Feb	100 Bags	Mushroom	2 q
mushroom					
(kg)	P.sajarcaju				
Honey(Kg)/		April-March	5 Boxes	Honey	10kg
Colony	Apis cerena				
(Nos.)	indica				
Azolla (kg)				Azolla	50kg

b) Village Seed Production Programme

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

6. Extension Activities

Sl.				Fa	rme	ers	Exte	nsion Off	icials		Total	
No.	Activities/ Sub-activities	No. of activities proposed	M	F	Т	SC/ ST (% of total)		Female		Male	Female	Total
	Field Day	20										
	KisanMela	2										
3.	KisanGhosthi	3										
4.	Exhibition	3										
5.	Film Show	12										
6.	Method Demonstrations	8										
7.	Farmers Seminar	2										
8.	Workshop	2										
9.	Group meetings	6										
10	Lectures delivered as resource persons	16										
1	Advisory Services	34										
	Scientific visit to farmers field	120										
13	Farmers visit to KVK	1										
14	Diagnostic visits	56										
1:	Exposure visits	5										
10	Ex-trainees Sammelan	2										
1′	Soil health Camp	2										
18	Animal Health Camp	2										
19	Agri mobile clinic	1										
20	Soil test campaigns	2										
2	Farm Science Club Conveners meet	4										
22	Self Help Group Conveners meetings	2										
23	MahilaMandals Conveners meetings	2										
	Celebration of important days (specify)	7										
	Sankalp Se Siddhi	1										
	Swatchta Hi Sewa	5										
2	Mahila Kisan Diwas	1										
28	Any Other (Specify)											
	Total	323										

7. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2020)	Amount proposed to be invested during 2020-2021	Expected Return
6,93,330	9,00,000	12,00,000

8. Expected fund from other sources and its proposed utilization

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

9. On-farm trials to be conducted*

OFT-1 (Agronomy)

i. Season: Kharif, 2020 /I yr

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 Technology option-II (TO-II): CR 506 Technology option-II (TO-II): CR 507

xiii. Critical Inputs: Seeds

xiv. Unit Size: 0.5 acrexv. No of Replications: 7

xv. No of Replications: 7 xvi. Unit Cost: 1000

xvii. Total Cost: 7000

xviii. Monitoring Indicator: Water submergence period, Effective panicles/m2, No of Filled grains

/Panicle, 1000 grain weight

xix. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): NRRI, Cuttack

OFT-2 (Plant Protection)

i. Season: Kharif, 2020 / I yr

ii. Title of the OFT: Assessment of integrated management practices of Neckblast in Paddy

iii. Thematic Area: Integrated Pest management

iv. Problem diagnosed: Low yield due to high incidence of Neckblast

- v. Important Cause: Lack of awareness regarding integrated management practices
- vi. Production system:Paddy-Pulse
- vii. Micro farming system: Rainfed Lowland, Paddy-Greengram
- viii. Technology for Testing: integrated management practices of Neckblast
- ix. Existing Practice: Spraying of tricyclazole @ 2ml / litre of water after the incidence of disease
- x. Hypothesis: TO_2 is a proven technology and would be effective due to alternate spraying of new generations pesticides
- xi. Objective(s): To prevent yield loss due to neck blast in Paddy
- xii. Treatments:

Farmers Practice (FP): Suitable chemical control measures are not adopted by farmer. Spraying of tricyclazole after the incidence of disease

Technology option-I (TO-I): Avoid dry nursery, late planting, burning of straw stubbles, remove weeds from the bunds and apply N in 3 splits. Seed treatment with Tricyclazole 75 WP @ 2gm/Kg of seed. Spraying of (Tricyclazole22% + Hexaconazole 3% SC) @ 2ml/ltr thrice at weekly interval starting from booting stage.

Technology option-II (TO-II): Alternate spraying of Metominostrobin 20SC and Azoxystrobin 20SC @ 1ml/ltr at 10 days interval starting from booting stage

xiii. Critical Inputs: TO₁ - Tricyclazole 75 WP @ 2gm/Kg of seed. Spraying of (Tricyclazole22% + Hexaconazole 3% SC) @ 2ml/ltr

 TO_2 - Tricyclazole 75 WP @ 2gm/Kg of seed. Alternate spraying of Metominostrobin 20SC and Azoxystrobin 20SC @ 1ml/ltr

- xiv. Unit Size:0.2ha
- xv. No of Replications: 5
- xvi. Unit Cost: 1800
- xvii. Total Cost: 9000
- xviii. Monitoring Indicator: Cost of intervention. Additional income over additional investment Yield (q/ha),

B:C ratio,

xix. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): TNAU, Coimbatore,2016, Nepal Agriculture Research Council, 2017

OFT-3 (Plant Protection)

- i. Season: Kharif, 2020 / I yr
- ii. Title of the OFT: Assessment of management of rhinoceros beetle in Coconut
- iii. Thematic Area: IPM
- iv. Problem diagnosed: Lower yield due to less tolerant of prevailing varieties to water logging
- v. Important Cause:
- vi. Production system:
- vii. Micro farming system: Rainfed Medium land
- viii. Technology for Testing: Management of rhinoceros beetle in Coconut
- ix. Existing Practice: Gamaxin and furadon granules
- x. Hypothesis: TO₂ is a proven technology and would be effective after treatment
- xi. Objective(s):To prevent rhinoceros beetle in Coconut
- xii. Treatments:

Farmers Practice (FP): Gamaxin and furadon granules.

Technology option-I (TO-I): Dusting of Carbofuran 3G @1Kg a.i/ha in manure pits, use of iron hooks, twice application of Phorate 10G @5gms mixed with sand (1:2)in three inner most leaves of the plant at 6 months interval, Installation of pheromone trap with rhino lure @ 12/ha

Technology option-II (TO-II): Spraying of 250ml of Metarrhizium culture+ 750ml of water in manure pit. use of iron hooks, Field release of Baculovirus innoculated adult @ 15 beetles/ha. Soak castor cake 1kg/5lit of water in small mud pots to attract and kill the adults. Application of Neem seed powder + sand(1:2) @ 150gm at the base of the 3 inner leaves of the plantTechnology option-II

xiii. Critical Inputs: (TO-I):Carbofuran 3G @1Kg a.i/ha, Phorate 10G @5gms mixed with sand (1:2),

pheromone trap with rhino lure @ 12/ha

(TO-II): 250ml of Metarrhizium culture+ 750ml of water, Field release of Baculovirus innoculated adult @ 15 beetles/ha, castor cake 1kg/5lit of water, Neem seed powder + sand(1:2) @ 150gm at the base of the 3 inner leaves of the plant

- xiv. Unit Size: 0.2ha
- xv. No of Replications: 10
- xvi. Unit Cost:
- xvii. Total Cost:
- **xviii. Monitoring Indicator:** Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio.
- xix. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): CPCRI, Kasaragod, Kerala, TNAU, Coimbatore

OFT-4 (Agril.Engg.)

- i. Season: Rabi, 2020-21/Year-II
- ii. Title of the OFT: Assessment of Tractor drawn Whole straw Paddy Thresher for bundle straw production
- iii. Thematic Area: Farm Mechanization
- iv. Problem diagnosed: Non availability of Bundle straw
- v. Important Cause: Large scale use of Tractor drawn axial flow thresher and combine harvester in Paddy leads to loose straw production which in turn reduces the availability of bundle straw in time. So an OFT would be done on Tractor drawn Whole straw Paddy thresher to test the efficacy.
- vi. Production system: paddy Greengram
- vii. Micro farming system: Rainfed Low land, Paddy-Greengram
- viii. Technology for Testing: Tractor drawn Whole straw Paddy Thresher
- ix. Existing Practice: Use of Pedal Thresher
- **x. Hypothesis:** Whole paddy bundles are carried horizontally towards the threshing unit. Only the earhead are threshed and the bundles as such discharged from the other end. It will supply the bundle straw in time.
- xi. Objective(s): Bundle straw production for mushroom cultivation by involving less labour and time.
- xii. Treatments:

Farmers Practice (FP): Use of Pedal Thresher

Technology option-I (TO-I): Power thresher cum winnower

Technology option-II (TO-II): Tractor drawn whole straw Paddy thresher

- xiii. Critical Inputs: OFT will be conducted in association with AICRP on FIM, CAET, OUAT (Transportation cost
- xiv. Unit Size: 0.1
- xv. No of Replications: 5
- xvi. Unit Cost: 500/-
- xvii. Total Cost: 5000/-

xviii. Monitoring Indicator: Threshing capacity(q/h), Labour requirement – (MDs/q), Cost of operation (Rs/qtl), Cost of bundle straw (Rs.)

xix. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):

Validated by AICRP on FIM, CAET, OUAT, 2016 Validated by Implement Factory, BBSR, 2001

OFT-5 (Agril.Engg.)

- i. Season: Kharif, 2020-21/Iyr
- **ii. Title of the OFT:** Assessment of 6-row Self propelled Rice transplanters for mechanized line transplanting in Kharif season
- iii. Thematic Area: Farm mechanization
- iv. Problem diagnosed: High labour cost and time involved in manual line transplanting.
- v. Important Cause: Ease in mechanical transplanting and reduction in missing plant per meter length
- vi. Production system: Paddy-Paddy
- vii. Micro farming system: Irrigated Low land, Paddy Paddy
- viii. Technology for Testing: 6-row Riding type Rice Transplanter
- ix. Existing Practice: Manual line transplanting with the help of thread
- **x. Hypothesis:** Reduction in cost of operation by (50-60)% will be achieved in Riding type 6-row Rice Transplanter.
- xi. Objective(s): Mechanized line transplanting in Paddy
- xii. Treatments:

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

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

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

- xx. Critical Inputs: OFT will be conducted in association with AICRP on FIM, CAET, OUAT (Transportation cost)
- xiii. Unit Size:0.2ha
- xiv. No of Replications: 5
- xv. Unit Cost: 900/-
- xvi. Total Cost: 4500/-
- xvii. Monitoring Indicator: Field capacity(ha/h), Time saving, Labour requirement(MDs/ha), No of tillers/hill, No of seedlings/hill

xviii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):

Released by AICRP on FIM, CAET, OUAT, 2015 as transferrable technology Validated by AICRP on FIM, CAET, OUAT, 2016

OFT-6 (Fishery)

- i. Season: Kharif, 2020 /I vr
- ii. Title of the OFT: Assessment of growth performance of Amur carp, Cyprinus carpio haematopterus in carp polyculture
- iii. Thematic Area: Production and management
- iv. Problem diagnosed: Low yield due to slow growth rate of common carp
- v. Important Cause: Slow growth rate of common carp affects the average yield from composite carp culture

- vi. Production system: Pond based
- vii. Micro farming system: Pond based, rainfed ecosystem
- viii. Technology for Testing: Growth rate of Amur carp at different proportion
- ix. Existing Practice: Stocking of Catla:Rohu:Mrigal = 3:4:3
- **x. Hypothesis:** More yield could be obtained by adopting TO3 as the proportion of Amur carp is more in that case and the growth rate of Amur carp is more than Mrigal
- xi. Objective(s): To assess the growth performance of Amur carp
- xii. Treatments:

Farmers Practice (FP): Stocking of Catla:Rohu:Mrigal = 3:4:3

Technology option-I (TO-I): Stocking of Catla:Rohu:Mrigal:Amur carp= 3:4:2:1

Technology option-II (TO-II): Stocking of Catla:Rohu:Mrigal:Amur carp= 3:4:1:2

Technology option-II (TO-II): Stocking of Catla:Rohu:Amur carp= 3:4:3

- xiii. Critical Inputs: Fingerlings of Amur carp
- xiv. Unit Size: 0.4 ha
- xv. No of Replications: 7
- xvi. Unit Cost: Rs 1500.00
- xvii. Total Cost: Rs 10,500.00
- xviii. Monitoring Indicator: Average body weight, DO, Plankton, Alkalinity
- xix. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): NFDB News letter, 2016

OFT-7 (Fishery)

- i. Season: Round the Year, 2020-21/I yr
- ii. Title of the OFT: Assessment of efficacy of different probiotics on growth performance of carps
- iii. Thematic Area: Disease management
- iv. Problem diagnosed: Low fish yield and more susceptible to diseases due to non use of probiotics
- v. Important Cause: Fish is susceptible to disease incidence due to non use of probiotics
- vi. Production system: Pond based
- vii. Micro farming system: Pond based, rainfed ecosystem
- viii. Technology for Testing: Efficacy of soil and water probiotics on growth of carps
- ix. Existing Practice: Feeding with artificial supplementary feed and no use of probiotics
- x. Hypothesis: soil and water quality parameters would be better by application of probiotics and hence disease incidence would be minimized leading to more fish yield
- xi. Objective(s): To assess the efficacy of different probiotics on growth performance of carps
- xii. Treatments:

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

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

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

- xiii. Critical Inputs: Soil probiotics and water probiotics
- xiv. Unit Size: 0.4 ha

- xv. No of Replications: 07
- xvi. Unit Cost: Rs 900.00
- xvii. Total Cost: Rs 6300.00
- xviii. Monitoring Indicator: Length (mm) & Weight (gm), % of disease incidence, PH, alkalinity
 - xix. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): College of Fisheries, OUAT

OFT-8 (Home Science)

- i. Season: Round the Year, 2020-21/II yr
- ii. Title of the OFT: Refinement of packaging practices of Paddy straw mushroom
- iii. Thematic Area: Value addition
- iv. Problem diagnosed: Distress Sale and low income due to short shelf life
- v. Important Cause: Less income due to huge production
- vi. Production system: Coconut Orchard intercropping
- vii. Micro farming system: Homestead
- viii. Technology for Testing: Different packaging material used to store chemilly treated paddy straw mushroom
- ix. Existing Practice: Unwashed fresh fruit bodies in bud stage in polythene bags
- **x. Hypothesis:** Avoid spoilage of mushroom within 24 hours of fruiting and enhance the shelf life for 48 hrs in paper bags
- xi. Objective(s): To increase shelf life of paddy straw mushroom in budding stage
- xii. Treatments:

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

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

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

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

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

OFT-9 (Home Science)

- i. Season: Round the Year, 2020-21/II yr
- ii. Title of the OFT: Assessment of different media for nursery raising of quality vegetable seedling production
- iii. Thematic Area: Income Generation
- iv. Problem diagnosed: Low income of farm women due to under utilization of Coco-Peat

- v. Important Cause: Plenty availability of Coconut waste as the coconut area is 9999ha
- vi. Production system: Paddy-Vegetablevii. Micro farming system: Homestead
- viii. Technology for Testing: Use of different media for nursery raising
- ix. Existing Practice: Use of FYM+ Sand+ Soil(1:1:1) for seedling raising
- **x. Hypothesis:** Use of Arka Fermented Cocopeat for raising seedlings decrease the seedlings mortality and increase the income of farm women
- xi. Objective(s): To produce vegetable seedling using Cocopeat
- xii. Treatments: FP: Use of FYM+ Sand+ Soil(1:1:1) for seedling raising

TO₁: The seedling tray (pro tray) is filled with the growing medium (moistened coco peat). One seed per cell is sown and covered with medium. The entire stack of 10 protrays will be covered using polyethylene sheet to ensure conservation of moisture until germination. The seedlings would be ready in about 21-30 days for transplanting to the main field.

TO₂: Use of Arka Fermented Cocopeat for raising seedlings

- i. Critical Inputs: Vegetable seeds, Protray, cocopeat
- ii. Unit Size: 1000 seedlingsiii. No of Replications: 10
- iv. Unit Cost: 600v. Total Cost: 6000
- vi. Monitoring Indicator: Seedling mortality(%), height of the seedling, age of the seedling for transplanting(Days)
- vii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): TO_{1:}CIWA, Bhubaneswar http://icar-ciwa.org.in/gks/index.php/wft/113-protrayseedling

TO₂: IIHR, Bangalore, https://iihr.res.in/production-technology-arka-fermented-coco-peat

Case Study:1 (1st. year) (Ag.Extension)

Title: Consumer preference study for various vegetables in the district

Expected output: Result of the study will help the farmers to plan market led production for better price and will enable the KVK for utilizing farmers' preference in selection of varieties for KVK intervention.

Identified vegetables: Brinjal, Chilli, Cucumber, Bittergourd, Okra

Name of the	Parameters to be studied	Highly preferred	Moderately preferred	Less preferred
Vegetable				
	Colour: (Green/Black/Purple/ White)			
	Size: (Large/ Medium/ Small)			
Brinjal	Shape: (Elongated/ Round/ Oval/ Oblong)			
	With thorn/ thorn less			
	Preference for specific production pockets			
	Colour: (Green/Black/White)			
	Size:(Large/ Medium/ Small)			
Chilli	Shape: (Round/Slender/ Medium robust)			
Cililii	Pungency			
	Aroma			
	Preference for specific production pockets			
	Colour: (Green/ White)			
Cu aurala au	Size: (Large/ Medium/Small)			
Cucumber	Texture: (Smooth/Fine)			
	Preference for specific production pockets			
Bittergourd	Colour: (Dark green/ Green/ White)			

	Size: (Large/ Medium/Small)		
	Firm spine/ smooth spine		
	Preference for specific production pockets		
	Colour: (Green/ Dark green/ Violet)		
Olemo	Size: (Large/ Medium/Small)		
Okra	Soft/Hard		
	Preference for specific production pockets		

Case Study:2 (1st. year) (Ag.Extension)

Backyard Poultry: A study on current status, challenges faced by the smallholders for its sustenance and way forward.

Objectives:

- 1. To assess the current status & its contribution for community development
- 2. To identify major challenges confronting Backyard poultry sector
- 3. Suggesting ways that could help backyard poultry production and marketing for community development in the region

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	8,00,000
2	ASCI	3,30,000
3	ATMA	1,00,000
4	RKVY	3 Crores Budget submitted for infrastructure

11. No. of success stories proposed to be developed with their tentative titles- 04 Nos.

12. Scientific Advisory Committee

Date of SAC meeting held during 2019-20	Proposed date during 2020-2021
05.02.2020	November-2020

13. Soil and water testing

Details	No. of Samples	No. of Farmers								No. of Villages	No. of SHC	
		SC		ST		Other		Total				distributed
		M	F	M	F	M	F	M	F	T		
Soil Samples	210										15	150
Water Samples	278										55	-
Other (Please specify)												
Total	488										70	

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to 31.03.2019	Expected fund requirement (Rs.)
Contingency	17,00,000	18,00,000
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)	3,78,000	8,56,000
Total		

^{*} Any additional requirement may be suitably justified.

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

Crop/ Enterprise	Thematic Area	Technology demonstrated	Horiz	ontal sprea		Photographs
			No. of	No. of	Area	
De el el c	Maniatal	Man Common Code 1	villages	farmers	in ha	
Paddy	Varietal Evaluation	Var.Swarna Sub-1	346	4684	6358	
Chilli	IPM	Soil application of neem cake @2.5 qt/ha,Installation of Blue sticky traps @50nos/ha, & need based application of Difenthiuron @1gm/lt & Spiromesifen 240 SC @ 0.6ml/ lit alternately at 10 days interval	18	67	17	

Crop/ Enterprise	Thematic Area	Technology demonstrated		ontal sprea	d of	Photographs
-			No. of	No. of	Area	
			villages	farmers	in ha	
Greengram	IPM	Seed treatment with Imidacloprid 600FS@5ml/kg seed,Instalation of YST@25/ha, alternate spraying of Neem oil (300ppm)@2.5ltr/h a and Difenthiuron 50% WP@500gm/ha at 10 days interval at 40 DAS	36	112	48	Tight see gods The Linkship of see arrests The Linkship of see arrests The Committee of the see arrests
Pisciculture	Fish feed manageme nt	Application of Floating fish feed @ 1% body weight daily in composite carp culture	42	162	320	
Pisciculture	Composite carp culture	Stocking of grow out ponds with Catla:Jayanti Rohu:Mrigal fingerlings@ 3000:4000:3000 nos per ha	48	190	455	
Mushroom	Income generation	Cultivation in agro shade net house (75%) with substrate treatment in lime solution (2%)	42	156	-	Cor one
