

Action Plan 2021 - 22

KRISHI VIGYAN KENDRA, SONEPUR



ODISHA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

REVISED PROFORMA FO ACTION PLAN 2021

1. Name of the KVK: Sonepur

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2. Name of host organization : Odisha University of Agriculture and Technology, Bhubaneswar

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3. Training programme to be organized

(a) Farmers and farmwomen

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants									
						SC		ST		Other		Total			
						M	F	M	F	M	F	M	F	T	
Crop Production															
INM	Training on Nitrogen management by LCC in Rice	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IWM	Training on method & time of application of herbicide in rice	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IWM	Training on mechanical and cultural methods of weed management in rice	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IWM	Training on types of nozzle, sprayer and spraying	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25

	techniques of herbicides in pulses														
ICM	Training on cultural practice in cotton	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
INM	Training on use bio-fertilizers in pulses to enhance production	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IWM	Training on chemical weed management in groundnut	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
ICM	Training on Physiological disorder , its Symptoms and their management in groundnut	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IWM	Training on herbicide application of kharif groundnut	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
ICM	Training on contingent crop planning for drought situation	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Fodder production	Training on fodder cultivation	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IWM	Training on selective post emergence herbicides for weed management in green gram	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Horticulture															
INM	Training on micronutrient application in cauliflower	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Plant establishment method	Training on types of trellis system for quality fruit	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25

	production in tomato														
Varietal	Training on package & practice of brinjal wilt tolerant Variety	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Orchard management	Training on use of plant growth regulator to avoid alternate bearing in mango	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
ICM	Training on cultivation practices of kharif tomato	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
ICM	Training on high yielding varieties both for rabi and kharif and their cultivation practices of onion	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Water management	Training on irrigation water management in crop cultivation of onion	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
PHM	Training on reduce post harvest loss of onion in storage	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
ICM	Training on cultivation practice of yam bean and other tuber crops	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Orchard management	Training on Canopy management in new mango orchard	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Value addition	Training on different value added product preparation from tuber crops	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
INM	Training on	1	1	Off-		-	-	-	-	-	-	-	-	-	25

	vegetable cultivation by application of Arka microbial consortium and OUAT consortium			campus											
ICM	Training on cultivation practice of chilli and cucurbits in river bed	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Plant Protection															
IPM	Training on chemical management of BPH in Rice	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
ICM	Training on cultural practices for management of BPH in rice	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IPM	Training on pesticides for control of thrips and purple blotch in onion	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IPM	Training on different pesticide application for control of mango hopper at different stages of growth	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IPM	Training on sucking pest mgmt in pulses	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IDM	Training on Integrated biological and chemical measures for management of YMV	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Safety measures	Training on safety measures to be followed during pesticide spray	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25

IDM	Training on thrips management in chilli by bio-pesticide application	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Nursery raising	Training on insect infestation free chilli seedling raising.	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IPM	Training on mgmt. of sucking pest of chilli by yellow sticky trap and suitable chemicals	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,	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25

	processing of soil sample and testing of different nutrient by Mridaparikshyak														
Home Science/Women Empowerment															
IGA	Cultivation of paddy straw mushroom using threshed straw	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
PHM	Improved packaging techniques of mushroom	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Nutritional security	Nursery management practices for nutritional garden	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Feed Management	Training on low cost feed management of Duck	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IGA	Dual purpose poultry farming for livelihood support	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Brooding management	Training on skill development and time of vaccination of poultry	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IGA	Rearing of kadaknath in backyard and its health benefits	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Value addition	Value added products from tomato	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Nutritional security	Planning and layout of nutrition garden	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IGA	Management practice for khaki campbell duck	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25

Drudgery reduction	Use of different farm tools for drudgery reduction	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
IGA	Different cold tolerance varieties and management practices of oyster mushroom	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Agricultural extension															
CBD	Staggered planting method to avoid glut in market	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
CBD	Consumer preference for different tomato varieties	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Entrepreneurial development of farmers/youths	Training on Market led production initiative for vegetables	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
CBD	ITK in agriculture and its importance	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
WTO and IPR issues	Protection of Plant Variety and Farmers' Rights Act	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
Formation and Management of SHGs	Formation and management of SHGs	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25
CBD	Role of electronic media for rural development	1	1	Off-campus		-	-	-	-	-	-	-	-	-	25

(b) Rural youths

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants									
						SC		ST		Other		Total			
						M	F	M	F	M	F	M	F	T	
Crop Production															
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															
Nursery management	Training on Nursery raising techniques and wilt tolerant varieties of tomato	1	2	On Campus		-	-	-	-	-	-	-	-	15	
Plant propagation technique	Training on horticultural practices for quality planting material production in fruits and flower crops	1	2	On Campus		-	-	-	-	-	-	-	-	15	
Home Science/Women Empowerment															
IGA	Mushroom spawn production	1	2	On Campus		-	-	-	-	-	-	-	-	15	
Brooding	Training on Brooding	1	2	On		-	-	-	-	-	-	-	-	15	

Management	management			Campus										
Agricultural extension														
CBD	Training on entrepreneurial opportunity in livestock sector	1	2	On Campus		-	-	-	-	-	-	-	-	15
CBD	Training on entrepreneurial opportunity in Agri-horti sector	1	2	On Campus		-	-	-	-	-	-	-	-	15

(c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Crop Production														
Chemical weed management	Different types of herbicide for weed management	1	1	On Campus		-	-	-	-	-	-	-	-	15
Seed production	Seed production in Paddy	1	1	On Campus		-	-	-	-	-	-	-	-	15
Horticulture														
Orchard management	Training on orchard management practices to increase yield in mango	1	1	On Campus		-	-	-	-	-	-	-	-	15
Protected cultivation	Training on Protected cultivation of vegetable and flower crops	1	1	On Campus		-	-	-	-	-	-	-	-	15
Home Science/Women Empowerment														

Nutritional security	Low cost and nutrient efficient diet designing	1	1	On Campus		-	-	-	-	-	-	-	-	15
Nutritional security	Planning and layout of nutrition garden	1	1	On Campus		-	-	-	-	-	-	-	-	15
Agricultural extension														
CBD	Application of new media in extension	1	1	On Campus		-	-	-	-	-	-	-	-	15
CBD	Motivational and communication skills for extension personnel	1	1	On Campus		-	-	-	-	-	-	-	-	15

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

Farmers and Farm women

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
I. Crop Production														
Weed Management	6	-	-	-	-	-	-	-	-	-	-	-	-	150
Resource Conservation Technologies														
Cropping Systems														
Crop Diversification														
Integrated Farming														
Water management														
Seed production														
Nutrient management	6	-	-	-	-	-	-	-	-	-	-	-	-	150
Integrated Crop Management	4	-	-	-	-	-	-	-	-	-	-	-	-	100
Fodder production	1	-	-	-	-	-	-	-	-	-	-	-	-	25
Production of organic inputs														
Others, (cultivation of crops)														
TOTAL														
II. Horticulture														
a) Vegetable Crops														

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Integrated nutrient management	2	-	-	-	-	-	-	-	-	-	-	-	-	50
Water management	1	-	-	-	-	-	-	-	-	-	-	-	-	25
Enterprise development														
Skill development														
Yield increment														
Production of low volume and high value crops														
Off-season vegetables														
Nursery raising	1	-	-	-	-	-	-	-	-	-	-	-	-	25
Exotic vegetables like Broccoli														
Export potential vegetables														
Grading and standardization														
Protective cultivation (Green Houses, Shade Net etc.)														
Others, if any (Cultivation of Vegetable)	6	-	-	-	-	-	-	-	-	-	-	-	-	150
TOTAL														
b) Fruits														
Training and Pruning														
Layout and Management of Orchards														
Cultivation of Fruit														
Management of young plants/orchards	1	-	-	-	-	-	-	-	-	-	-	-	-	25
Rejuvenation of old orchards	1	-	-	-	-	-	-	-	-	-	-	-	-	25
Export potential fruits														
Micro irrigation systems of orchards														
Plant propagation techniques														
Others, if any(INM)														
TOTAL														
c) Ornamental Plants														
Nursery Management														
Management of potted plants														
Export potential of ornamental plants														
Propagation techniques of Ornamental Plants														
Others, if any														
TOTAL														

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition	1	-	-	-	-	-	-	-	-	-	-	-	25
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	1	-	-	-	-	-	-	-	-	-	-	-	25
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing	1	-	-	-	-	-	-	-	-	-	-	-	25
Others, if any													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
TOTAL													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management	1	-	-	-	-	-	-	-	-	-	-	-	25
Piggery Management													
Rabbit Management													
Disease Management													
Feed management	1	-	-	-	-	-	-	-	-	-	-	-	25
Production of quality animal products													
Others, if any (Goat farming)													
TOTAL													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	2	-	-	-	-	-	-	-	-	-	-	-	50
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques	1	-	-	-	-	-	-	-	-	-	-	-	25
Enterprise development													
Value addition	1	-	-	-	-	-	-	-	-	-	-	-	25
Income generation activities for empowerment of rural Women	5	-	-	-	-	-	-	-	-	-	-	-	125
Location specific drudgery reduction technologies	1	-	-	-	-	-	-	-	-	-	-	-	25
Rural Crafts													
Capacity building													
Women and child care													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others, if any													
TOTAL													
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
TOTAL													
VII. Plant Protection													
Integrated Pest Management	5	-	-	-	-	-	-	-	-	-	-	-	125
Integrated Disease Management	2	-	-	-	-	-	-	-	-	-	-	-	50
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
TOTAL													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs	1	-	-	-	-	-	-	-	-	-	-	-	25
Mobilization of social capital													
Entrepreneurial development of farmers/youths	2	-	-	-	-	-	-	-	-	-	-	-	50
WTO and IPR issues	1	-	-	-	-	-	-	-	-	-	-	-	25
Others, if any	3	-	-	-	-	-	-	-	-	-	-	-	75
TOTAL													
XI Agro-forestry													
Production technologies													
Nursery management													

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Integrated Farming Systems														
TOTAL														
XII. Others (Pl. Specify)														
TOTAL	58													1450

Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Mushroom Production	1	-	-	-	-	-	-	-	-	-	-	-	-	15
Bee-keeping														
Integrated farming														
Seed production														
Production of organic inputs	1	-	-	-	-	-	-	-	-	-	-	-	-	15
Planting material production														
Vermi-culture	1	-	-	--	-	-	-	-	-	-	-	-	-	15
Sericulture														
Protected cultivation of vegetable crops														
Commercial fruit production														
Repair and maintenance of farm machinery and implements														
Nursery Management of Horticulture crops	2	-	-	-	-	-	-	-	-	-	-	-	-	30
Training and pruning of orchards														
Value addition														
Production of quality animal products														

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	-	-	-	-	-	-	-	-	-	-	-	15
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development	2	-	-	-	-	-	-	-	-	-	-	-	30
Others if any (ICT application in agriculture)													
TOTAL	8												120

Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Productivity enhancement in field crops	2	-	-	-	-	-	-	-	-	-	-	-	-	30
Integrated Pest Management														
Integrated Nutrient management														
Rejuvenation of old orchards	1	-	-	-	-	-	-	-	-	-	-	-	-	15
Value addition														
Protected cultivation technology	1	-	-	-	-	-	-	-	-	-	-	-	-	15
Formation and Management of SHGs														
Group Dynamics and farmers organization														
Information networking among farmers	1	-	-	-	-	-	-	-	-	-	-	-	-	15
Capacity building for ICT application														
Care and maintenance of farm machinery and implements														
WTO and IPR issues														
Management in farm animals														
Livestock feed and fodder production														
Household food security	1	-	-	-	-	-	-	-	-	-	-	-	-	15
Women and Child														

care													
Low cost and nutrient efficient diet designing	1	-	-	-	-	-	-	-	-	-	-	-	15
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any	1												
TOTAL	8												120

4. Frontline demonstration to be conducted*

FLD-1-

Crop: Ground nut

Thrust Area: Crop production

Thematic Area: INM

Season: Rabi, 2021-22

Farming Situation: Upland

FLD-2-

Crop: Green gram

Thrust Area: Crop production

Thematic Area: INM

Season: Rabi, 2021-22

Farming Situation: Rainfed, medium land,
(Rice-fallow)

FLD-3-

Crop: Rice

Thrust Area: Crop production

Thematic Area: Varietal evaluation

Season: Kharif-2021

Farming Situation: Rainfed low land

FLD-4-

Crop: Finger millet

Thrust Area: Crop production

Thematic Area: Varietal evaluation

Season: Rabi, 2021-22

Farming Situation: Irrigated lowland

FLD-5-

Crop: Watermelon

Thrust Area: Horticulture

Thematic Area: Crop establishment method

Season: Rabi, 2021-22

Farming Situation: Irrigated Medium land

FLD-6-

Crop: Marigold

Thrust Area: Horticulture

Thematic Area: Varietal introduction

Season:Rabi 2021-22

Farming Situation:Irrigated upland

FLD-7-

Crop: Onion

Thrust Area: Horticulture

Thematic Area: Varietal performance

Season: Kharif

Farming Situation:Upland

FLD-8-

Crop: Onion

Thrust Area: Horticulture

Thematic Area: Fertilizer application

Season: Kharif

Farming Situation: Rainfed upland

FLD-9-

Crop: Green gram

Thrust Area: Plant protection

Thematic Area: IPM

Season: Summer, 2021-22

Farming Situation:Upland

FLD-10-

Crop: Pigeon pea

Thrust Area: Plant protection

Thematic Area: IPM

Season: Kharif, 2021

Farming Situation:Upland

FLD-11-**Crop:** Rice Vegetables & fruits**Thrust Area:** Home Science**Thematic Area:** Nutritional security**Season:**Round the year , 2021-22**Farming Situation:** Homestead**FLD-12-****Crop:** Duck**Thrust Area:** Home Science**Thematic Area:** Feed management**Season:** Kharif 2021**Farming Situation:**Backyard**FLD-13-****Crop:** Oyster Mushroom**Thrust Area:** Home Science**Thematic Area:** IGA**Season:**Rabi, 2021-22**Farming Situation:** Homestead/Backyard**FLD-14-****Crop:** Poultry**Thrust Area:** Home Science**Thematic Area:** Brooding management**Season:** Round the year 2021-22**Farming Situation:** Intensive**FLD-15-****Crop:** Paddy**Thrust Area:** Agricultural Extension**Thematic Area:** Technology dissemination**Season:**Kharif 2021-22**Farming Situation:** Low land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration									
					Name of Inputs	Demo	Local	SC		ST		Other		Total			
								M	F	M	F	M	F	M	F	T	
1	Ground nut	1 ha	Application of 100 % RDF + lime 5q/ha with application of Sulphur @ 30kg/ha along with Boron 1.25kg/ha as Borax	Initial Soil test value of pH, S and B, Pod wt/Plant, no of filled with bold kernel /plant Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio,	-	-	-	-	-	-	-	-	-	-	-	-	10
2	Greengram	1 ha	Soil test based NPK with FYM @ 5 t/ha and seed inoculation	Nodule no /plant, Nodule wt/plant, efficiency,	-	-	-	-	-	-	-	-	-	-	-	-	10

			with Rhizobium @ 20g/kg seed and treatment with ammonium molybdate @ 10 g /25 kg of seed.	pod wt/plant, grain weight /plant Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio,														
3	Rice	1 ha	Rice variety Hasanta with recommended cultural practices (skipped row planting)	Stage of the plant, No of hoppers /tiller & % hopper burn, % infestation, Yield (q/ha)	-	-	-	-	-	-	-	-	-	-	-	-	-	10
4	Finger millet	1 ha	Growing of Finger Millet Var. Arjun with 50-40-25 kg N-P2O5-K2O/ha along with Zinc @ 12.5 kg/ha + herbicide oxyflurofen @ 37.5 g/ha + one hand weeding at 21	No. of tillers/ plant ; Farmers preference; pest incidence Yield/ha % infestation, Cost of intervention. Additional income over	-	-	-	-	-	-	-	-	-	-	-	-	-	10

			DAS The variety having duration 100-105 days,yield potential 6t/ha, Resistance to blast and stem borer	additional investment Yield (q/ha), B:C ratio,												
5	Watermelon	10 nos.	Transplanting in watermelon Nursery for watermelon can be prepared with either polythene bags of 200 gauge,10 cm diameter & 15 cm height or through portrays under protected Nursery. Fill the bag with 1:1:1 soil,sand & FYM. Transplant about 12 days old seedling in main field Planting-Spread the	Wt of Fruit, size, yield Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio,	-	-	-	-	-	-	-	-	-	-	-	10

			lateral tubes in the centre of each bed. Irrigate the bed with Drip system ,spray pre emergence weedicide name@1kg a.i/ha just before planting. Plant the seedlings in the holes made at 60 cm distance at which day after weedicide spray														
6	Marigold	10 nos.	Cultivation of high yielding variety Bidhan marigold-2	No of flower per plant, yield C:B ratio Net profit	-	-	-	-	-	-	-	-	-	-	-	-	10
7	Onion	1 ha	Arka Niketan- Bulbs are globular with thin neck. Attractive colour, plant matured 145	Average Blub weight(gm), Average Bulb Diameter,(c	-	-	-	-	-	-	-	-	-	-	-	-	10

			<p>DAT average yield 34 ton/ha.</p>	<p>m) Cost of Intervention, Additional income over additional investment ,Yield (q/ha), B:C ratio & farmer feedback</p>												
8	Onion	10 nos.	<p>Application of Sulphur @ 45kg/ha along with soil test based fertiliser application Sulphur applied as Gypsum increases bulb weight with relatively lower incidence of foliar diseases in Onion. Sulphur has been recognized as an important nutrient for higher yield and quality of bulb and better keeping</p>	<p>Bulb weight, plant height, no of leaves /plant, bulb diameter</p>	-	-	-	-	-	-	-	-	-	-	-	10

			quality. Seven weeks old seedlings to be transplanted at a spacing of 15cm row to row and 10cm plant to plant													
9	Greengram	1 ha	Seed treatment with Imidacloprid 600 FS @ 5 ml / kg seed + Yellow sticky trap @ 50/ha + Neem oil 5 @5ml/lit spray on appearance of white fly on YST + Spraying of Diafenthiuron 50 WP @ 312.5 g a.i./ha	pest count/leaf, Infected leaves /plant, YMV infected plants/sq.mtr % of infestation, Additional income over additional investment, Yield and B:C ratio	-	-	-	-	-	-	-	-	-	-	-	10
10	Pigeon pea	1 ha	Installation of Pheromone traps @ 25nos/ha, Spraying of Azadiractin 1500ppm @ 1.5 ltr/ha at	Pest monitoring ,no of infested fruits/plant Additional income over	-	-	-	-	-	-	-	-	-	-	-	10

			50% flowering followed by flubendiamide 480SC @ 200ml/ha and Bt @ 1kg/ha (2g/litre) at 15 days interval	additional investment, % of pest infestation, Yield(q/ha), B:C ratio													
11	Nutritional garden	10 nos.	Demonstration of nutritional garden for improving nutritional security of farm family Nutritional garden with Protein, Vitamin & iron rich vegetables and fruits with consumers preference 1. Trellis structure with PP rope for raising cucurbits: 2. Pro-tray for raising seedlings in	Consumption of vegetables/day(Kg) Availability of vegetable/day(Kg) Mean increase in consumption of vegetables and fruits compared to RDA (%) Cost of input(Rs.)	-	-	-	-	-	-	-	-	-	-	-	-	10

			<p>small quantity + 3. cement ring tank for vermi composting,</p> <p>Growing vegetables round the year covering leafy vegetables, sola , Solanaceous vegetables, Roots and Tubers, cucurbits suiting to consumption pattern + Two</p> <p>Papaya Plants ,One Lemon, one drumstick and two Banana and floriculture in bund</p>													
12	Feed management	10 nos.	<p>Feeding of fresh Azolla @ 200g/duck/day as replacement of 20% concentrate in feed of Khaki campbell</p>	<p>Egg laying age</p> <p>Egg production/year</p> <p>Body weight</p> <p>Feed</p>	-	-	-	-	-	-	-	-	-	-	-	10

			ducks was beneficial in terms of improved FCR, egg production and egg quality traits with enriched yolk colour.	conversion ratio Cost of intervention. Additional income over additional investment, B:C ratio												
13	Poultry	10 nos.	Brooding management for 21 days with floor space of 0.3 ft ² with help of chick guards, artificial heat @ 1-3 watt/chick, feeder and drinkers @ 1 each for 50 birds. Vaccination against RD on 7 th , 28 th day IBD on 14 th day. Use of electrolytes, preventive antibiotics	Egg laying age Egg production/y ear Body weight Feed conversion ratio Cost of intervention. Additional income over additional investment, B:C ratio	-	-	-	-	-	-	-	-	-	-	-	10

			during brooding														
14	Mushroom	10 nos.	Cultivation of oyster mushroom variety <i>Peurotus sajarcaju</i> , Biological efficiency- 79% in normal condition (20 ^o -30 ^o) Demo- Cultivation of oyster mushroom variety <i>Hyspigygus ulmarius</i> Biological efficiency- 92.5% in 18 ^o -30 ^o	Pin head appearance (days) Biological efficiency (%) Yield (kg/bed) Net income, BC Ratio	-	-	-	-	-	-	-	-	-	-	-	-	10
15	Paddy	50 nos.	Preparation of small videos (1.5-2.0 minutes) on different activities of production process of	Change in attitude Change in perception on expected behavioral	-	-	-	-	-	-	-	-	-	-	-	-	50

		<p>selected commodities and the same will be sent through whatsapp to the identified farmers and do group discussion with those farmers.</p> <p>Details of Technology: Production packages will be divided into different segments and short videos will be produced and disseminated through whatsapp.</p>	<p>control</p> <p>Application of the message</p> <p>Application of knowledge, skill and technologies</p>															
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Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Nutrient management in Groundnut	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	25
Field day	INM in Green gram	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration on nutrient management in Groundnut	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration of Finger millet (Var. Arjun)	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	BPH tolerant high yielding rice varieties	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	50
Training	Cultivation of millets	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	25
Field day	Demonstration on transplanting method to check poor growth in initial stage of watermelon	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration on Marigold variety Bidhan marigold-2	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	50
Training	Scientific cultivation of watermelon	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	25

Training	Cultivation practice of marigold	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	25
Field day	Demonstration Of 'S' Application In Rabi Onion For Enlargement Of Bulb	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration on Onion Varieties of Kharif Season	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration of YMV management in green gram.	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	50
Field day	Demonstration on IPM practices for management of pod borer in pigeon pea	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	50
Training	Training on Integrated biological and chemical measures for management of YMV	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	25
Training	IPM practices for management of pod borer in pigeon pea	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	25
Training	Artificial brooding	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	25

	management in chicks													
Field day	Demonstration on cold tolerance oyster mushroom variety of <i>Hypsizygus ulmarius</i>	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	50
Training	Cultivation of cold tolerant oyster mushrooms	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	25
Field day	Demonstration of nutritional garden for ensuring Nutritional Security of farm family	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	50
Training	Planning and layout of nutrition garden	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	25
Field day	Demonstration on Azolla as a supplementary feed to reduce feed cost	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	50
Training	Management practice for khaki campbell duck	1	F & FW	1 Day	OFF	-	-	-	-	-	-	-	-	25

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

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

Name of the Crop Enterprise /	Variety / Type	Period From..... to	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals/nos)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	Hasanta	June to October	2.0	FS	60		1,95,000.00	
	Pratikshya	June to December	2.0	FS	65		2,11,250.00	
	CO-51/MTU-1156	June to November	1.0	FS	29		95,000.00	
Green gram	IPM-02-14	January to April	2.0	Certified				
Groundnut	Dharani	December to March	0.1	Certified				
Brinjal	Swarna shyamali, Swarna pratibha, 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 December	to	-	Seedling	12000		24,000	
Broccoli	Lucky F1 Hybrid	September December	to	-	Seedling	1000		2,000	
Coloured Capsicum	California wonder, yellow wonder	September December	to	-	Seedling	500		2,000	
Knolkhol	White Vienna, purple vienna	September December	to	-	Seedling	1500		3000	
Red Cabbage	Namdhari – NS-1460	September December	to	-	Seedling	500		1000	
Cherry Tomato	Namdhari, NS-577	September December	to	-	Seedling	500		1000	
Lettuce	Batavia lettuce, Butter lettuce	September December	to	-	Seedling	500		1000	
Marigold	Ceracole, Pusa narangi ganda	September December	to	-	Seedling	4000		8000	
Chrysanthemum	NBRI INDIANA, NBRI KUSUM	September December	to	-	Seedling	200		1000	
Rose	Manuparle, Arka sinchana, Arka sharmeeli	September December	to	-	Seedling	100		3000	
Mango	Amrapalli, Dasher			-	Sapling	1000		35000	
Paddy straw mushroom spawn	<i>Volvariella volvacea,</i>	June September	to	-	Spawn	1000		18,000	
Oyster mushroom spawn	<i>Pleurotus sajorcaju</i> <i>Pleurotus</i>	September February	to	-	Spawn	1000		18,000	

	<i>florida</i> <i>Hyspigyus</i> <i>ulmarius</i>							
Paddy Straw mushroom	<i>Volvariella</i> <i>volvacea</i>	June to September		Mushroom	1.0qtl		15,000	
Oyster mushroom	<i>Pleuratous</i> <i>sajorcaju</i> <i>Pleuratous</i> <i>florida</i> <i>Hyspigyus</i> <i>ulmarius</i>	October- March		Mushroom	1.0qtl		8,000	
Chicks	Vanaraja, Kadakhath, Aseel, RIR,Kaveri	Round the year		Chicks	10,000			
Duckling	Khaki campbell, White pekin	Round the year		Duckling	3,000			
Quail	Japanese Quail	Round the year		Quail	300			
Vermicompost		Round the year		Vermicompost	50qtl		75,000	
Vermiworm		Round the year		Vermiworm	10 kg		5,000	

b) Village Seed Production Programme

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

6. Extension Activities

Sl. No.	Activities/ Sub-activities	No. of activities proposed	Farmers				Extension Officials			Total		
			M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day	19	-	-	-	-	-	-	-	-	-	950
2.	KisanMela	1	-	-	-	-	-	-	-	-	-	300
3.	KisanGhosthi	2	-	-	-	-	-	-	-	-	-	30
4.	Exhibition	5	-	-	-	-	-	-	-	-	-	1500
5.	Film Show	5	-	-	-	-	-	-	-	-	-	
6.	Method Demonstrations	10	-	-	-	-	-	-	-	-	-	200
7.	Farmers Seminar	05	-	-	-	-	-	-	-	-	-	250
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 2019-2020 (As on 01.04.2020)	Amount proposed to be invested during 2021	Expected Return
0	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)

9. On-farm trials to be conducted*

OFT-1

- i. **Season:** Kharif, 2021
- ii. **Title of the OFT:** Assessment of herbicides for weed management in transplanted rice
- iii. **Thematic Area:** Weed management
- iv. **Problem diagnosed:** Lower yield due to high weed infestation and high cost due to manual weeding
- v. **Production system:**
- vi. **Micro farming system:** Low land
- vii. **Technology for Testing:** (TO-I): Pre emergence application of herbicide (Bensulfuron methyl 0.6%+ Pretilachlor 6.0%) @ 10 kg/ha at 4 DAT
 Technology option-II (TO-II): -Application of pendimethalin @ 750 g/ha as pre-emergence application i.e 0-3 DAT followed by Bispyribac sodium @ 25 g/ha as post-emergence i.e 25 DAT

 Technology option-III(TO-III): -Application of fenoxaprop-p-ethyl + ethoxysulfuron (50+15 g/ha) at 15 days after transplanting(DAT)
- viii. **Existing Practice:** Butachlor/Pretilachlor pre emergence application and 1 manual weeding
- ix. **Objective(s):** Weed management
- x. **Treatments:**
 Farmers Practice (FP): Butachlor/Pretilachlor pre emergence application and 1 manual weeding
 Technology option-I (TO-I): Pre emergence application of herbicide (Bensulfuron methyl 0.6%+ Pretilachlor 6.0%) @ 10 kg/ha at 4 DAT
 Technology option-II (TO-II): -Application of pendimethalin @ 750 g/ha as pre-emergence application i.e 0-3 DAT followed by Bispyribac sodium @ 25 g/ha as post-emergence i.e 25 DAT

 Technology option-III(TO-III): -Application of fenoxaprop-p-ethyl + ethoxysulfuron (50+15 g/ha) at 15 days after transplanting(DAT)
- xi. **Critical Inputs: Weedicides**
- xii. **Unit Size: 1 ha**
- xiii. **No of Replications: 7**
- xiv. **Unit Cost:**
- xv. **Total Cost:**
- xvi. **Monitoring Indicator:** Weed count , No of Filled grains /Panicle, 1000 grain weight, no of effective tillers per m² ,Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio, Weed control efficiency Effective panicles/m²

- xvii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Source : RRTTS, RSource : AICRP on Weed management, Odisha, 2015 anital, Odisha, 2015 , Source : NRRI, Cuttack, Odisha, 2014

OFT-2

- i. **Season:** Kharif, 2021
- ii. **Title of the OFT:** Assessment of Sweet corn varieties in upland Rainfed condition.
- iii. **Thematic Area:** Varietal evaluation
- iv. **Problem diagnosed:** Low yield from traditional variety
- v. **Production system:**
- vi. **Micro farming system:** Rainfed Upland
- vii. **Technology for Testing:** Technology option-I (TO-I): **Sweet corn variety Misti** (brix value 13.5.0 %, 66,000 plants/ ha. , Spacing 90x 30 cm. Av. cob yield 120 Q/ ha. , Suitable for plain land
Technology option-II (TO-II): **-Sweet corn variety NHCS-130** (brix value 14.0 %, 60,00-75,000 plants/ ha. , Spacing 90x 30 cm. Av. cob yield 114 Q/ ha. , Suitable for Western Table land Zone)
Technology option-III(TO-III): **-Variety Pusa Super sweet corn 1** (brix value 15.9 %, 45000-60000 plants/ ha. , Spacing 100x 30 cm. Av. cob yield 130 Q/ ha. , Suitable for peninsular zone
- viii. **Existing Practice:** Cultivation of Madhuri (Sweet Corn)
- ix. **Objective(s):** To introduce high yielding variety
- x. **Treatments:**
Farmers Practice (FP): Cultivation of Madhuri (Sweet Corn)
Technology option-I (TO-I): **Sweet corn variety Misti** (brix value 13.5.0 %, 66,000 plants/ ha. , Spacing 90x 30 cm. Av. cob yield 120 Q/ ha. , Suitable for plain land
Technology option-II (TO-II): **-Sweet corn variety NHCS-130** (brix value 14.0 %, 60,00-75,000 plants/ ha. , Spacing 90x 30 cm. Av. cob yield 114 Q/ ha. , Suitable for Western Table land Zone)
Technology option-III(TO-III): **-Variety Pusa Super sweet corn 1** (brix value 15.9 %, 45000-60000 plants/ ha. , Spacing 100x 30 cm. Av. cob yield 130 Q/ ha. , Suitable for peninsular zone
- xi. **Critical Inputs:** Seeds of high yielding varieties
- xii. **Unit Size:** 1 ha
- xiii. **No of Replications:** 7
- xiv. **Unit Cost:**
- xv. **Total Cost:**
- xvi. **Monitoring Indicator:** Compatibility with existing farming system , Plant height, water requirement , Cob size , weed incidence , incidence of stem borer, YieldC:B ratio Net profit
- xvii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Source : RRTTS, RSource : ANGRAU, Hyderabad ,1991 ,Source:IARI-2018-19 , VPKAS, Almora, Uttarakhand, 2016

OFT-3

- i. **Season:** Rabi 2021-22
- ii. **Title of the OFT:** Assessment on cultivation of triple disease resistant tomato varieties
- iii. **Thematic Area:** Varietal evaluation
- iv. **Problem diagnosed:** Local varieties are not resistant to wilt, leaf curl and early blight due to which yield is reduced
- v. **Production system:**
- vi. **Micro farming system:** Rainfed upland
- vii. **Technology for Testing:** Technology option-I (TO-I): -Arka Apeksha
High yielding variety developed by IIHR. It has triple disease resistant to leaf curl, bacterial blight and early blight . Fruits are oblonged and medium large.(90-100gm). Yield potential 43-90tn/ha in 140-150 days
Technology option-II(TO-II): -Arka Vishesh

High yielding variety developed by IIHR. It has triple disease resistant to leaf curl, bacterial blight and early blight . Fruits are oblonged and medium large.(90-100gm). Yield potential 43-90tn/ha in 140-150 days

viii. Existing Practice: Cultivation of hybrid variety-Laxmi

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

x. Treatments:

Farmers Practice (FP): Cultivation of hybrid variety-Laxmi

Technology option-I (TO-I): -Arka Apeksha

High yielding variety developed by IIHR. It has triple disease resistant to leaf curl, bacterial blight and early blight . Fruits are oblonged and medium large.(90-100gm). Yield potential 43-90tn/ha in 140-150 days

Technology option-II(TO-II): -Arka Vishesh

High yielding variety developed by IIHR. It has triple disease resistant to leaf curl, bacterial blight and early blight . Fruits are oblonged and medium large.(90-100gm). Yield potential 43-90tn/ha in 140-150 days

xi. Critical Inputs: Tomato 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

OFT-4

i. Season: Kharif,2021

ii. Title of the OFT: Assessment of drumstick variety for higher yield

iii. Thematic Area: Varietal evaluation

iv. Problem diagnosed:Local varieties are low yielding with less quality fruits

v. Production system:

vi. Micro farming system: Upland and medium land

vii. Technology for Testing: Technology option-I (TO-I): -**Bhagya**

Fruits are fleshy and tasty, flowering within 5-6 month after sowing, harvest in 7to 8 month, pod mature in 65 days after flowering, yeild- 300-500 pods/plant

Technology option-II(TO-II): **PKM-1**

Tender leaves , long and tender pods, bushy habbits and rapid growth after cropping , yield - 220pods/plant

Technology option-III(TO-III): **PKM-2**

It has more lateral branches and seed weight with more flesh,

Yield- 300-350pods/plant

viii. Existing Practice: Cultivation of hybrid variety-Laxmi

ix. Objective(s): To identify high yielding variety with good quality fruits

x. Treatments:

Farmers Practice (FP): Cultivation of varieties which are inferior in quality and having low yield potential

Technology option-I (TO-I): -**Bhagya**

Fruits are fleshy and tasty, flowering within 5-6 month after sowing, harvest in 7to 8 month, pod mature in 65 days after flowering, yeild- 300-500 pods/plant

Technology option-II(TO-II): **PKM-1**

Tender leaves , long and tender pods, bushy habits and rapid growth after cropping , yield - 220pods/plant

Technology option-III(TO-III): **PKM-2**

It has more lateral branches and seed weight with more flesh,

Yield- 300-350pods/plant

xi. **Critical Inputs:** Drumstick seeds

xii. **Unit Size:** 10 nos.

xiii. **No of Replications:** 7

xiv. **Unit Cost:**

xv. **Total Cost:**

xvi. **Monitoring Indicator:** plant height, days to flowering , no of pods per plant, yield in kg, cost of cultivation, net return, BC ratio

xvii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** UHS, Bhagalkot 2018 , TNAU

OFT-5

i. **Season:** Kharif,2021

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:**

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⁻¹ + Zn @ 2.5 kg ha⁻¹

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

xii. **Unit Size:** 1ha

xiii. **No of Replications:** 7

xiv. **Unit Cost:**

xv. **Total Cost:**

xvi. **Monitoring Indicator:**Initial and after harvest soil test value, Root growth(cm), Plant height, No. of tillers m², No. of filled grain per panicle, 1000 grain weight (gm)

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

OFT-6

i. **Season:** Kharif,2021

ii. **Title of the OFT:** Assessment of sheath blight management in rice

iii. **Thematic Area:** IPM

iv. **Problem diagnosed:**Low yield in rice due to heavy incidence of rice sheath blight

v. **Production system:**

vi. **Micro farming system:** Low 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:**
- xii. **Unit Size:** 1ha
- xiii. **No of Replications:** 7
- xiv. **Unit Cost:**
- xv. **Total Cost:**
- xvi. **Monitoring Indicator:** Infected hills /m², PDI (%)
- xvii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Dept. of plant pathology, PAU, 2016 ,

DRR, 2015

OFT-7

- i. **Season:** Rabi, 2021-22
- ii. **Title of the OFT:** Assessment of integrated management against leaf spot disease in groundnut
- iii. **Thematic Area:** IPM
- iv. **Problem diagnosed:** Low yield in groundnut due to severe incidence of leaf spot disease
- v. **Production system:**
- vi. **Micro farming system:** Medium land
- vii. **Technology for Testing:** Technology option-I (TO-I):- Seed treatment with Tebuconazole 2%DS @1.5g/kg of seed, furrow application of *T. viridae* @ 5kg/ha with 60kg FYM pre incubated for 15 days and foliar spraying of Tebuconazole 25.9%EC @ 1ml/ltr at 15DAI from the beginning of infection
Technology option-II(TO-II): -Seed treatment with Tebuconazole 2%DS @1.5g/kg of seed, alternate foliar spraying of Chlorothalonil 75%WP @ 2gm/ltr and Carbendazim + Mancozeb @ 2gm/ltr of water at 45 and 60 DAS
- viii. **Existing Practice:** Foliar spraying of mancozeb @ 2gm/ltr of water at advanced stage of disease infection
- ix. **Objective(s):** To control leaf spot in ground nut
- x. **Treatments:**
Farmers Practice (FP): Foliar spraying of mancozeb @ 2gm/ltr of water at advanced stage of disease infection
Technology option-I (TO-I):- Seed treatment with Tebuconazole 2%DS @1.5g/kg of seed, furrow application of *T. viridae* @ 5kg/ha with 60kg FYM pre incubated for 15 days and foliar spraying of Tebuconazole 25.9%EC @ 1ml/ltr at 15DAI from the beginning of infection

Technology option-II(TO-II): -Seed treatment with Tebuconazole 2%DS @1.5g/kg of seed, alternate foliar spraying of Chlorothalonil 75%WP @ 2gm/ltr and Carbendazim + Mancozeb @ 2gm/ltr of water at 45 and 60 DAS

xi. Critical Inputs:

xii. Unit Size: 1ha

xiii. No of Replications: 7

xiv. Unit Cost:

xv.Total Cost:

xvi. Monitoring Indicator:Extent of foliar damage (%), peak period of infection, PDI (%),No. of pods/plant Yield (q/ha)

xvii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): Annual Report (OUAT), 2015-16 , TNAU, 2012

OFT-8

i. Season: Rabi, 2021-22

ii. Title of the OFT: Assessment of suitable varieties of tomato for preparation of Sauce and puree

iii. Thematic Area: Value addition

iv. Problem diagnosed:Distress sell and spoilage due to high perishability , lack of knowledge about value addition in tomato

v. Production system:

vi. Micro farming system: Homestead

vii. Technology for Testing: Technology option-I (TO-I):-Value added product of tomato Var. Arka Apeksha. Fruits are suitable for processing as they have TSS (4.70° Brix), acidity (0.36%), lycopene (14.15mg/100gm fresh weight)

Technology option-II(TO-II): -Value added product of tomato Var. Arka Vishes Fruits are suitable for processing as they have TSS (4.60° Brix), acidity (0.36%), lycopene (14.14mg/100gm fresh weight)

viii. Existing Practice:Cultivation of local varieties /Laxmi and fresh selling

ix. Objective(s): To prepare value added products

x. Treatments:

Farmers Practice (FP): Cultivation of local varieties /Laxmi and fresh selling

Technology option-I (TO-I):-Value added product of tomato Var. Arka Apeksha. Fruits are suitable for processing as they have TSS (4.70° Brix), acidity (0.36%), lycopene (14.15mg/100gm fresh weight)

Technology option-II(TO-II): -Value added product of tomato Var. Arka Vishes Fruits are suitable for processing as they have TSS (4.60° Brix), acidity (0.36%), lycopene (14.14mg/100gm fresh weight)

xi. Critical Inputs:

xii. Unit Size:

xiii. No of Replications: 13

xiv. Unit Cost:

xv. Total Cost:

xvi. Monitoring Indicator:Shelf life (days), consumer acceptability for sauce and puree , Pulp content- gm/kg, consistency TSS (Brix)Net income, BC Ratio

xvii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): IHR, Bengaluru-2019

OFT-9

i. Season: Kharif,2021

ii. Title of the OFT: Assessment on supplementary foods for under-nourished children

iii. Thematic Area: Nutrition

iv. Problem diagnosed:Children in the age group of 6-9 and 10-12 years of age were found to be inadequate in terms of energy, protein, iron and β -carotene. Heights, weights and Hb level were also less when compared with NCHS and WHO standards

v. Production system:

- vi. **Micro farming system:** Household nutrition
- vii. **Technology for Testing:** Technology option-I (TO-I):-Improved method iron rich supplement (lehyam)
Technology option-II(TO-II): -Supplementary food by incorporating underutilized greens and amala powder
- viii. **Existing Practice:**Diet deficient in iron rich food and also following inadequate and improper diet
- ix. **Objective(s):** Preparation of supplementary foods
- x. **Treatments:**
Farmers Practice (FP): Diet deficient in iron rich food and also following inadequate and improper diet .
Technology option-I (TO-I):-Improved method iron rich supplement (lehyam)
Technology option-II(TO-II): -Supplementary food by incorporating underutilized greens and amala powder
- xi. **Critical Inputs:**
- xii. **Unit Size:**
- xiii. **No of Replications:** 7
- xiv. **Unit Cost:**
- xv. **Total Cost:**
- xvi. **Monitoring Indicator:**Hb level, BMI, Body weight and height,Combating malnutrition and anemia, improvement in hemoglobin, Increase in BMI in the under nourished children
- xvii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** CSKHPKV, Palampur, 2012 , PAU, Ludhiana, 2012

OFT-10

- i. **Season:** Rabi , 2021-22
- ii. **Title of the OFT:** Assessment of different planting time for better market price of Tomato
- iii. **Thematic Area:** Crop production
- iv. **Problem diagnosed:**Low income due to distress sell
- v. **Production system:**
- vi. **Micro farming system:** Season, land type, irrigation, culture type (intensive/extensive/backyard/inter crop),cropping system
- vii. **Technology for Testing:** Technology option-I (TO-I):-Planting of seedling 30 days before onset of normal planting period
Technology option-II(TO-II): -Planting of seedling 30 days after completion of normal planting period
- viii. **Existing Practice:**Normal sowing window.
- ix. **Objective(s):** To avoid distress sale
- x. **Treatments:**

Farmers Practice (FP): Normal sowing window

Technology option-I (TO-I):-Planting of seedling 30 days before onset of normal planting period

Technology option-II(TO-II): -Planting of seedling 30 days after completion of normal planting period
- xi. **Critical Inputs:**
- xii. **Unit Size:**
- xiii. **No of Replications:** 10
- xiv. **Unit Cost:**

- xv. **Total Cost:**
xvi. **Monitoring Indicator:-**Plant height, No. of fruits/plant, Fruit weight, Disease & pest incidence , Market price, Yield/ha, B:C ratio & Economics
xvii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** International journal agricultural research innovation and technology, www.ijarit.webs

*Repeat the same format for EACH OFT being proposed.

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

Sl. No.	Name of the project	Funding authority	Fund expected (Rs.)
01	CFLD	ICAR	6,00,000
02	BGREI	PD, ATMA	70,500
03	ATMA	PD, ATMA	100000

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

12. Scientific Advisory Committee

Date of SAC meeting held during 2020	Proposed date during 2021
06.01.2021	

13. Soil and water testing

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	95	7	1	3	-	2	8	3	98	41	14	415
		8	2	4		0	6	1		5		
						5		7				
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	95										14	415

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to 31.03.2020	Expected fund requirement (Rs.) 2021-22
Recurring		
i. Pay & allowance	83.00	91.00

ii. Contingency	16.00	18.00
iii. TA	1.00	1.00
iv. HRD	0.30	0.30
<u>Non-recurring (specify)</u>		
i. Works (Road, threshing floor, drying yard, vehicle and implement shed, irrigation system etc.)		-
ii. Furniture & Equipment		-
iii. Vehicle and tractor		-
iv. Library	0.10	0.10
TOTAL	100.40	110.4

* 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