

REVISED PROFORMA FOR ACTION PLAN 2019-2020

1. Name of the KVK:

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2. Name of host organization :

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(a) Farmers and farmwomen

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants													
						SC		ST		Other		Total							
						M	F	M	F	M	F	M	F	T					
Crop Production	Training on Micronutrient application in green gram	1	1	off															
Crop Production	Production technology of rice in saline soil	1	1	off															
Crop Production	Training on mode of action & sequence of application of available herbicides	1	1	off															
Crop Production	Training on scientific production practices of greengram	1	1	off															
Crop Production	Training on integrated weed management paddy	1	1	off															
Crop Production	Training on scientific production practices of groundnut	1	1	off															
Crop Production	Training on Micronutrient application in paddy	1	1	off															
Crop Production	Production technology of sunflower in saline soil	1	1	off															

Soil Health and Fertility Management	Training on integrated nutrient management in ground nut	1	1	off														
Soil Health and Fertility Management	Fertilizer recommendation on basis of soil test value	1	1	off														
Soil Health and Fertility Management	Technique of soil sample collection	1	1	off														
Soil Health and Fertility Management	Training on soil test based micronutrient application in paddy	1	1	off														
Soil Health and Fertility Management	Use of Biofertiliser in oilseed crops	1	1	off														
Soil Health and Fertility Management	Training on saline soil management	1	1	off														
Soil Health and Fertility Management	Management of Acid soil	1	1	off														
Soil Health and Fertility Management	Training on micronutrient application for higher yield	1	1	off														
Agril. Engineering	Training on technique of Mat type seedling raising for using transplanter	1	1	off														
Agril. Engineering	Training on calibration of Seed cum fertilizer drill	1	1	off														
Agril. Engineering	Training on operation and maintenance of different types of Ground nut thresher	1	1	off														
Agril. Engineering	Skill training on operation of Power Weeder	1	1	off														
Agril. Engineering	Training on Irrigation water management in Tomato	1	1	off														
Agril. Engineering	Training on laying of mulch film in Pointed gourd	1	1	off														
Agril. Engineering	Operation of Whole straw Paddy Thresher	1	1	off														
Agril. Engineering	Training on use of farm implements available for direct seeded Rice cultivation	1	1	off														
Horticulture	Training on nutrient management in	1	1	off														

	tomato																		
Horticulture	Training on different methods of seedling raising	1	1	off															
Horticulture	Training on package and practices of tomato hybrids	1	1	off															
Horticulture	Production technology of high value crop (Capsicum)	1	1	off															
Horticulture	skill training on artificial pollination technique	1	1	off															
Horticulture	Training on scientific production management of watermelon	1	1	off															
Horticulture	Training on scientific production management of banana	1	1	off															
Plant Protection	Training on Red palm weevil and eryo phid management in coconut	1	1	off															
Plant Protection	Training on management of spodoptera in ground nut	1	1	off															
Plant Protection	Training on BPH/WBPH management in Paddy	1	1	off															
Plant Protection	Training on Integrated management of leaf miner in tomato	1	1	off															
Plant Protection	Training on management of thrips and mites in chilly	1	1	off															
Plant Protection	Training on stem borer management in paddy	1	1	off															
Plant Protection	Training YMV management in greengram	1	1	off															
Plant Protection	Training on management of sheath blight in paddy	1	1	off															
Plant Protection	Training on sigatoka disease management in banana	1	1	off															
Home Science	Training on use of grain pro storage bag in paddy	1	1	off															

Home Science	Training on Management of women SHGs	1	1	off													
Home Science	Skill training on Cultivation of Paddy straw mushroom by using loose straw	1	1	off													
Home Science	Training on preparation of value added products from Oyster mushroom	1	1	off													
Home Science	Training on different packaging practices for paddy straw mushroom	1	1	off													
Home Science	Training on off season mushroom cultivation	1	1	off													
Home Science	Training on planning and layout of nutritional garden round the year	1	1	off													
Home Science	Training on nursery raising using different growth media	1	1	off													
Home Science	Training on preparation of vermicompost using different substrates	1	1	off													
Home Science	Training on Brooding Management in Backyard Poultry	1	1	off													
Agril. Extension	Doubling the farmer income through IFS	1	1	OFF													
Agril. Extension	Enriching farmers' profitability through FPO	1	2	OFF													
Agril. Extension	Training on various marketing opportunities and production planning in vegetables	1	2	OFF													
Agril. Extension	Up gradation of farmers skill through electronic media	1	1	OFF													
Agril. Extension	Training on team management skills for enhancing effectiveness of team	1	2	OFF													
Agril. Extension	Role of information communication & technology for the benefit of farmers' in	1	1	OFF													

	digital India																	
Agril. Extension	Scientific Production practices of groundnut	1	1	OFF														
Agril. Extension	Scientific Production practices of black gram	1	1	OFF														
Agril. Extension	Scientific Production practices of sun flower	1	1	OFF														
Fisheries	Training on role of periphytic substrate in carp culture	1	1	off														
Fisheries	training on polyculture of fresh water prawn with IMC	1	1	off														
Fisheries	Training on feeding management for carp culture	1	1	off														
Fisheries	training on techniques of fish feed preparation	1	1	off														
Fisheries	Training on cultural practices of Amur carp with IMC,	1	1	off														
Fisheries	Training on Short term culture of minor carp in seasonal ponds,	1	1	off														
Fisheries	Training on composite fish culture	1	1	off														
Fisheries	Training on multiple stocking & multiple harvesting in pond culture	1	1	off														
Fisheries	Training on stocking and post stocking pond management,	1	1	off														
Livestock Production and Management	Training on feed management in cattle	1	1	off														
Livestock Production and Management	training on vaccination in poultry	1	1	off														
Livestock Production and Management	skill Training on azolla cultivation	1	1	off														
Livestock Production and Management	Fodder production for livestock	1	1	off														
Livestock Production	Processing and value addition of milk	1	1	off														

and Management																		
Livestock Production and Management	Buck exchange for reducing inbreeding in goats	1	1	off														
Livestock Production and Management	skill Training on azolla cultivation	1	1	off														
Livestock Production and Management	Fodder production for livestock	1	1	off														
Livestock Production and Management	Processing and value addition of milk	1	1	off														
Livestock Production and Management	Buck exchange for reducing inbreeding in goats	1	1	off														

(b) Rural youths

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants													
						SC		ST		Other		Total							
						M	F	M	F	M	F	M	F	T					
Crop Production	Seed production in paddy	1	2	on															
	seed production in greengram	1	2	on															
	Quality seed production in pulses	1	5	on															
Soil Health and Fertility Management	Organic farming	1	3	On															
Agril.Engg	Cost economics of Agro Service Centre Model	1	2	On															
	Skill Training on operation and maintenance of transplanters	1	2	On															
	Operation and maintenance of harvesting &threshing implements in Paddy	1	5	on															
Plant	Training on	1	2	On															

protection	Honey Bee cultivation																	
	Training on preparation of biopesticides in paddy	1	2	On														
Home science	Training on preparation of tomato powder	1	2	On														
	Skill taining on Apiary in coconut orchard	1	2	On														
	Production of Value added products from fruits & vegetables	1	5	on														
Fisheries	Training on carp seed production techniques	1	3	On														
	training on breeding and culture of ornamental fish	1	3	On														
	Training on rearing of carp fry, fingerlings & yearlings	1	5	On														
Agril. Extension	Training on potential entrepreneurial oppoprtunity in Agri-horti system	1	3	On														
	Training on farm management skills for enhancing profitability	1	3	On														
Animal science	Income generation through dairy farming	1	2	On														
	Income generation through small ruminants	1	2	On														
	Small scale poultry farming for entrepreneurship development	1	5	On														

(c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants													
						SC		ST		Other		Total							
						M	F	M	F	M	F	M	F	T					
Crop Production	Integrated nutrient management in paddy	1	2	On															
	Integrated nutrient management in vegetables	1	2	On															
Ag.Engg.	Components of Drip Irrigation, advantages, disadvantages and maintenance	1	2	On															
	Improved Farm machineries for Resource conservation	1	2	On															
Plant protection	Training on Integrated disease and pest management in vegetables	1	2	On															
	Training on Integrated disease and pest management in Paddy	1	2	On															
Home Science	Formation & management of FPOs	1	2	On															
	Women friendly implements for drudgery reduction of	1	2	On															

	farm women																	
Agril. Extension	Training on application of new media in extension	1	2	On														
	Training on motivational & communication skills	1	2	On														
Fishery	Training on cultural practices of fresh water prawn with IMC	1	2	On														
	Training on fish health management	1	2	On														
Livestock management	Veterinary first aid & vaccination technique	1	2	On														
	New diagnostic methods of animal diseases	1	2	On														

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																			
Resource Conservation Technologies																			
Cropping Systems	2																		
Crop Diversification																			
Integrated Farming																			
Water management																			
Seed production																			
Nursery management																			
Integrated Crop Management																			
Fodder production																			
Production of organic inputs																			
Production technology	6																		
TOTAL																			
II. Horticulture																			
a) Vegetable Crops																			
Integrated nutrient management	1																		

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			
Water management													
Enterprise development													
Skill development	1												
Yield increment	1												
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising	1												
Exotic vegetables like Broccoli													
Export potential vegetables	1												
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
TOTAL													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit	2												
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
TOTAL													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
TOTAL													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
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				
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	1													
Production and use of organic inputs	1													
Management of Problematic soils	2													
Micro nutrient deficiency in crops	2													
Nutrient Use Efficiency	1													
Soil and Water Testing	1													
Others, if any														
TOTAL														
IV. Livestock Production and Management														
Dairy Management	3													
Poultry Management	1													
Piggery Management														
Rabbit Management														
Disease Management														
Feed management	1													
Production of quality animal products														
Others, if any (Goat farming)	1													
TOTAL														
V. Home Science/Women empowerment														
Household food security by kitchen gardening and nutrition gardening	1													
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	1													
Storage loss minimization techniques	2													
Enterprise development	4													
Value addition	2													
Income generation activities for empowerment of rural Women	1													
Location specific drudgery reduction technologies														
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	1													
Production of small tools and implements	1													
Repair and maintenance of farm machinery and implements	5													
Small scale processing and value addition														
Post Harvest Technology														
Water management	1													
TOTAL														
VII. Plant Protection														
Integrated Pest Management	7													
Integrated Disease Management	2													
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	1													
Composite fish culture & fish disease	6													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	2													
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														
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														

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				
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	1													
Formation and Management of SHGs														
Mobilization of social capital	1													
Entrepreneurial development of farmers/youths														
WTO and IPR issues														
ICT	2													
Production technology	3													
Marketing	1													
TOTAL														
XI Agro-forestry														
Production technologies														
Nursery management														
Integrated Farming Systems	1													
TOTAL														
XII. Others (Pl. Specify)														
TOTAL														

Rural youth

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

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			
orchards													
Value addition	1												
Production of quality animal products													
Dairying	1												
Sheep and goat rearing	1												
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries	1												
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing	1												
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development	4												
Others if any (ICT application in agriculture)	1												
TOTAL													

Extension functionaries

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

Group Dynamics and farmers organization	1												
Information networking among farmers													
Capacity building for ICT application	1												
Care and maintenance of farm machinery and implements	2												
WTO and IPR issues													
Management in farm animals	2												
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs	1												
Crop intensification													
Composite fish culture	1												
Fish disease management	1												
TOTAL													

3. Frontline demonstration to be conducted*

Crop:

Thrust Area:

Thematic Area:

Season:

Farming Situation:

Sl. No.	Crop	Thrust Area:	Thematic Area:	Season:	Farming Situation
1	Paddy	Varietal substitution in field crop	Varietal evaluation	Kharif	Rainfed low land
4	Chilli	Reduced crop loss through IPM	IPM	Rabi	Irrigated medium land
5	Greengram	To increase production & productivity of pulses through ICM	IWM	Rabi	Irrigated medium land
6	Banana	Varietal substitution in vegetable crop	TO REDUCE CROP LOSS	Kharif	Upland irrigated, Sandyloam
8	Pointed gourd	To increase production & productivity of vegetable crop	Production management	Rabi	Irrigated medium land

10	Watermelon	To increase production & productivity of fruit crop	Production management	Rabi	Irrigated medium land
11	Tomato	Vegetables - HYV, IDM, IPM, INM	Varietal evaluation, IPM	Rabi	Irrigated medium land
12	Groundnut	Popularization of harvesting and threshing implements in Groundnut	Farm mechanization	Rabi	Irrigated Medium land
13	Greengram	Popularization of Seed cum fertilizer drill for Line sowing of Pulses in order to maintain proper plant population cum crop nutrition	Farm Mechanization	Rabi	Rainfed lowland
14	Banana	Mechanized weeding in Banana orchard for rationalized cost of cultivation	Farm mechanization	Kharif	Upland irrigated, Sandyloam
15	Pointedgourd	Water conservation and weed control	Resource conservation Technology	Rabi	Irrigated medium land
16	Dairy	Feeding and Health management of dairy animals and small ruminants	Livestock management	Round the year	Round the year, Semi intensive dairy farming
17	Fish	Fish seed production in small ponds	Fish seed production	Round the year	Pond based
18	Fish	Integrated fish farming and fish health management Inland Water Bodies for multiple production	Composite pisciculture	Round the year	Pond based
21	Vegetable & fruit	To reduce imbalanced nutrition in farm families	Nutritional security	Round the year	Backyard- fruits & vegetable gardening utilising kitchen waste and house hold water sources
22	Poultry	Commercial and backyard poultry farming	Income generation	Round the year	Backyard poultry rearing
23	Apiary	Coconut orchard for intercrop	Income generation	Rabi	Backyard Coconut-Mushroom

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration											
					Name of Inputs	Demo	Local	SC		ST		Other		Total					
								M	F	M	F	M	F	M	F	T			
1	Paddy	10	Luna Suvarna (CR-DHAN-403), 150 days duration, Height: 135 cm, Avg yield :3.5-4.0 ton/ha, Resistant to blast, tolerance to stem borer, BPH, Leaf folder	Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio															
2	Groundnut	10	Oxy flurofen as pre emergence herbicide inhibits shoot and root growth due to rupture of the cell membrane. It is effective against most of the weed species like grasses and broadleaf weeds. Pre emergence application takes care of the early flush of weeds and post emergence application of imazethapyr takes care of grassy weeds emerged in later phases in pulses with ALS inhibition and	Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio															

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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		
			restricts synthesis of essential aminoacids .															
3	Paddy	10	Demonstration of herbicides for weed management in transplanted rice during kharif 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	Weed flora composition , Weed control efficiency Effective panicles/m2, No of Filled grains /Panicl, 1000 grain weight														
4	Chilli	10	Demonstration of integrated management thrips & mites in chilli during Rabi Soil application of neem cake @2.5 qt/ha,Installation of Blue sticky traps @50nos/ha, & need based application of Difenthiuron @1gm/lt &	No of thrips/leaf , no of mites/sq.inc h leaves														

Sl. No	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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		
			Spiromesifen 240 SC @ 0.6ml/ lit alternately at 10 days interval															
5	Greengram	10	Demonstration of Integrated management of YMV in green gram in Rabi 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	Average no of whiteflies/leaf % infestation														
6	Banana	10	Demonstration of Sigatoka disease in Banana Alternate spraying of Bordeaux mixture 1 % and (Tebuconazole 50 WG + Trifloxystrobin 25 WG) @ 200 gm/ha at 15 days interval	% of infestation, Additional income over additional investment, Yield and B:C ratio														

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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		
			with additional dose of 25 %potash															
7	Paddy	10	Demonstration of Integrated management of sheath blight in Kharif Seed treatment with Thiophenatemethyl 50%WG @1.5gm/kg of seed. Alternate spraying of Trifloxystrobin + Trebuconazole 25WG @0.6gm/lit and Thifluzamide 23SC @1 ml/lit at 15 days of interval	Cost of intervention. Additional income over additional investment , Disease Severity (%) Yield (q/ha), B:C ratio,														
8	Pointed gourd	0.4ha, 10	Demonstration of artificial pollination in pointed gourd for higher yield Plucking male flowers, removal of petals, collection of pollens by hammering with a wooden stick in a glass, diluting with water, sieving using a net and pollinating	Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio,														

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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			
			female flowers by putting a drop of solution using dropper. In rainy season, plucking of male flowerbuds is done in the afternoon, and they are kept overnight in water and plants are pollinated in the morning when the weather is favourable.. Yield is 2.5 times higher when artificial pollination is practised .Gross return is Rs 100,000 per acre with an additional cost of Rs 18,000 towards labour cost for artificial pollination(5 persons/family-members/children @ 1.5 hours per day per acre required for pollination). Fruit setting is better, size is good and weight of the fruit is more 70%, 18-20 fruits weigh																

Sl. No	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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		
			one Kg															
9	Banana	0.4ha/10 no	Patakapura (Amritpani) variety Plant tall (4 to 4.5m height), stem - yellowish green with brownish blotches, reddish margins of petiole and leaf sheath. Bunch - 15 to 20kg, 8 to 16 hands, 60 to 80 fruits. Fruits - medium sized, cylindrical to spindle shaped, weak pedicel, skin - thin, peels easily, ivory yellow, flesh - firm, sweet, pleasant aroma. Demerits are its susceptibility to panama wilt, formation of hard lump in pulp and easy dropping of fruits from the bunch. Crop duration - 14 to 15 months.	No of fingers per bunch, Bunch weight, Yield (t/ha), Duration of variety														
10	Watermelon	0.4ha/10 no	Demonstration of portray raising of seedlings to avoid	Cost of intervention. Additional														

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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			
			<p>late planting of water melon after late harvest of paddy</p> <p>The seedling tray (pro tray) is filled with the growing medium (moistened coco peat). One seed per cell is sown and covered with medium. After sowing 10 trays are kept one over other for 3 to 6 days, depending on the crops. The entire stack will be covered using polyethylene sheet to ensure conservation of moisture until germination. The trays are irrigated lightly. Drenching the trays with fungicides as a precautionary measure against seedling mortality is also being done. Spraying of 0.3 per cent (3g / litre) water</p>	<p>income over additional investment</p> <p>Yield (q/ha), B:C ratio,</p>															

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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		
			soluble fertilizer using poly feed twice (12 and 20 days after sowing) for enhance the growth of the seedlings. The seedlings would be ready in about 21-30 days for transplanting to the main field depending upon the crop.															
11	Tomato	10 no	Demonstration on nutrient management for higher yield in tomato Maximum fruit yield of tomato along with highest C:B ratio can be obtained by the integrated application of recommended dose of fertilizers (120:60:80 kg/ha) + FYM@10 t/ha + S @ 25kg/ha.	Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio														

Sl. No	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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			
12	Groundnut	10	Demonstration of Tractor drawn Groundnut Thresher -Tractor operated Groundnut Thresher for different groundnut varieties- Threshing of groundnut pods can be done in the field itself without transporting to the threshing yard - 500-550 kg/h, Threshing efficiency – 85-90%	Threshing capacity(q/h), Labour requirement (MDs/q) percentage of broken pods, Threshing efficiency(%), Cleaning efficiency(%)															
13	Greengram	5	Demonstration of tractor drawn Multi crop Seed cum Fertilizer drill for line sowing of Greengram 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	FC (ha/h), Field Efficiency (%), Plant population / sq.m, Labour requirement (MDs/ha), No of missing plant per meter length															

Sl. No	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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			
			shovel type Furrow opener																
14	Banana	10	Demonstration of Dry Land Power Weeder in Banana Orchard 4-stroke Petrol engine) – Weeding, hoeing and ridging are possible for the row spacing of 60cm – 90cm. Capacity – 0.08ha/h	Field capacity(ha/h), Labour requirement (MDs/ha), Weeding index, plant injury (%), fuel consumption (lit / h)															
15	Pointedgourd	05	Demonstration of Mulching in Pointed gourd for water conservation and weed control in Rabi season Use of 50 micron mulch film to conserve water and suppress the weed growth. Water use efficiency will be increased by 30-40%, yield enhancement	Cost of intervention, Additional income over additional investment, Yield, B:C Ratio															

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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		
			(15-20)%															
16	Dairy	5	Demonstration on bypass fat feeding and mineral mixture supplementation for early sexual maturity in heifers. Inclusion of bypass fat @ 100gm/day/animal and mineral mixture @ 50gm/day/animal in ration for 60 days in heifers aged more than 1.5 years.	Age at first heat, conception rate. Milk yield, Milk FAT, SNF														
17	Fish	10/ 4 ha	Demonstration of “Jayanti Rohu” in composite carp culture Stocking Catla:Jayanti Rohu:Mrigal@ 3:4:3 with stocking density @ 10000 fingerlings /Ha	Avg. body weight ,FCR, Plankton density (ml/50 lit), Alkalinity														

Sl. No	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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			
18	Fish	2.0ha/ 5 no	Demonstration of low cost farm made feed by locally available feed ingredients Preparation of sinking pellet feed using locally available feed ingredients GNOC: MOC : dry fish and prawn powder :vitamin mineral mixture: DORB (2:1:1:1:5) by small scale feed grinder (20-30 kg/hr) and small scale feed pelletizer (20-30 kg/hr) and feeding @5-2% of body weight daily	Feed conversion ratio, avg. body weight															
19	Fish	2.0ha/ 5no	Demonstration of Periphytic substrate to maximize production in carp polyculture system Placing of periphytic substrates such as	FCR, Avg. body weight, Plankton density (ml/lit) and Alkalinity															

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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		
			bamboo splits/coconut leaves in 20% of pond water area															
20	Fish	2.0ha/ 5no	Demonstration on Freshwater prawn, <i>M.rosenbergii</i> in mixed carp culture Stocking of F. W. Prawn <i>M.rosenbergii</i> juveniles @ 7500no./ha with 5000 no. of Catla, Rohu & Grass Carp fingerlings	Average body weight, culture duration, Plankton conc (ml/lit)														
21	Vegetable & fruit	5	Demonstration of nutritional garden for Improving Nutritional Security of farm family 1. Traily structure with PP rope for raising cucurbits: 2. Protray for raising seedlings in small quantity + 3. cement ring tank for vermi composting, Growing vegetables round the year covering leafy	Average per capita availability(g/day) RDA(%)														

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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		
			vegetables, Solanaceous vegetables, Roots and Tubers, cucurbits suiting to consumption pattern + Two Papaya Plants ,One Lemon, one drumstick and two Banana and floriculture in bunds															
22	Poultry	5 no	Demonstration on artificial brooding management in chicks. Brooding management for 21 days with floor space of 0.3 sqft/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 7 th day, 28 day, IBD on 14 th day . Use of electrolytes, preventive antibiotics during brooding	Chick mortality rate during brooding period, body weight at 21 days, survivability of birds till start of laying.														

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstration	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			
23	Apiary	5 unit	Demonstration on Apiary in coconut orchard for additional income Apiary with Critical Inputs: Bee box, accessories, Bee colony (Apis cerena indica) and dearth feeding of sugar and water (1:1) during lean period	Bee Colony(Nos .) Honey yield (kg/ box)															
24	Poultry	10 units	Demonstration on backyard poultry breed Kadaknath Rearing of poultry birds in semi intensive system	Body weight at 1 month, 2 month 4 month and at start of laying, egg production per annum															

Extension and Training activities under FLD:

Activity	Title of	No.	Clientele	Duration	Venue	No. of Participants		
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	Activity				On/Off	SC		ST		Other		Total		T
						M	F	M	F	M	F	M	F	
Training	Production technology of rice in saline soil	01	F&FW	01	Off									25
Field day	Field day on saline tolerant variety	01	F&FW	01	Off									50
Training	Training on integrated weed management paddy	01	F&FW	01	Off									25
Training	Training on nutrient mangement in tomato	01	F&FW	01	Off									25
Training	skill training on artificial pollination technique	01	F&FW	01	Off									25
Field day	Field day on pointed gourd cultivation	01	F&FW	01	Off									50
Training	Training on scientific production management of watermelon	01	F&FW	01	Off									25
Training	Training on	01	F&FW	01	Off									25

	scientific production management of banana													
Field day	Field day on Banana cultivation	01	F&FW	01	Off									50
Field day	Field day on Watermelon cultivation	01	F&FW	01	Off									50
Training	operation and maintenance of different types of Ground nut thresher	01	F&FW	01	Off									25
Field Day	Field day on Tractor drawn Groundnut thresher	01	F&FW	01	Off									50
Training	Skill training on operation of Power Weeder	01	F&FW	01	Off									25
Training	Training on laying of mulch film in Pointed gourd	01	F&FW	02	Off									25
Field Day	Field day on use of mulching in	01	F&FW	01	Off									50

	Pointed gourd													
Training	Calibration of Seed cum Fertilizer drill	01	F&FW	01	Off									25
Field Day	Field Day on mechanized line sowing in Greengram	01	F&FW	01	Off									50
Training	Skill taining on Apiary in coconut orchard	01	F&FW	01	Off									25
Field Day	Field day on Apiary in coconut orchard	01	F&FW	01	Off									50
Training	Training on planning and layout of nutritional garden round the year	01	F&FW	01	Off									25
Field Day	Field day on Nutritional garden	01	F&FW	01	Off									50
Training	Training on Brooding Management in Backyard Poultry	01	F&FW	01	Off									25
Field Day	Field day on backyard poultry rearing	01	F&FW	01	Off									50

Training	Training on feeding management in carp culture	01	F&FW	01	Off													25
Field Day	Field day on feeding management in carp culture	01	F&FW	01	Off													50

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

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

Name of the Crop Enterprise	Variety / Type	Period From..... to	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	CR1009Sub-1/Swarna Sub-1/FS	July-Jan	12	Seed	480			
Blackgram	PU-31	Feb-April	6	Seed	15			
Papaya	Vinayak/Surya/Koorg honey due	June-Oct	-	Saplings	4000 Nos.			
Coconut	Sakhigopal local		-	Saplings	400 Nos.			
Marigold	Seracole/ Arka agni	Aug-Oct	-	Seedlings	2000 Nos.			
Brocoli	KTS-1	Sept-Oct	-	Seedlings	400 Nos.			
Red Cabbage	NS-1456/ NS-1460	Sept-Oct	-	Seedlings	400 Nos.			
Capsicum	N-10/ Carlifornia wonder	Sept-Oct	-	Seedlings	1000 Nos			

Tomato	Arka samrat/Arka rakhyak	Aug-Sep	-	Seedlings	5000 Nos.			
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b) Village Seed Production Programme

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

5. Extension Activities

6. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2019)	Amount proposed to be invested during 2019-2020	Expected Return
46230.01	9,80,000	15,00,000

7. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
ARYA	ICAR	8,00,000
ASCI	ICAR	3,30,000
ATMA	State Govt.	1,00,000
RKVY	Govt.India	3 Crores Budget submitted for infrastructure

9. On-farm trials to be conducted*

i.	Season	Kharif
ii.	Title of On farm Trial	Assessment of Stem borer management in Summer Rice
iii.	Thematic area	Integrated pest management
iv.	Problem diagnosed	Low yield in rice due to heavy incidence of rice stem borer
v.	Important cause	Lack of awareness regarding integrated management practices
Vi	Production system	Rice -rice
Vi i	Micro farming system	Lowland irrigated, clay loam Rice – black gram/greengram
Vi ii	Technology for testing	IPM of stemborer
Ix	Existing practice	Spraying of triazophos/ propenophos/cypermethrin
X	Hypothesis	TO ₂ is a proven technology & would be effective IPM module due to nursery treatment with granular insecticide, alternate spraying of new generation insecticide with neem oil & release of <i>T.Chilonis</i>
xi.	Objective	To prevent yield loss due to stem borer in paddy
xii .	Treatment	FP: Spraying of triazophos/ propenophos/cypermethrin TO ₁ : Nursery treatment with carbofuran 3G@ 1.5 /ha + alternate spraying of fipronil 5EC @ 2ml/tr and neem oil 3000ppm @ 3ml/ ltr water at 15 days interval 55 DAT+release of T. chilonis@ 50,000/ha twice 7 days after spraying TO ₂ : Nursery treatment with cartap hydrochloride 4G@ 0.8 kg per hectare, + alternate spraying of neem oil 3000ppm and Indoxacarb 18.5SL@1ml/litre at 55DAT + twice release of T. chilonis @ 50,000/ha 7days after spraying.
xii i.	Critical input	TO ₁ : carbofuran 3G@ 1.5 /ha, fipronil 5EC @ 2ml/tr , neem oil 3000ppm @ 3ml/ ltr , T. chilonis@ 50,000/ha TO ₂ : cartap hydrochloride 4G@ 0.8 kg per hectare, neem oil 3000ppm and Indoxacarb 18.5SL@1ml/litre, T. chilonis @ 50,000/ha
Xi v	Unit size	0.2ha
X v	No of replication	7
xv i.	Unit cost	1200
xv ii.	Total cost	9000
xv iii.	Monitoring indicator	no of white earheads / m ² ,no of egg mass/m ² , No. of

		deadheart/sq.mt
xi x	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO1: OUAT-2015 TO2: OUAT annual report -2017

OFT: 2

i.	Season	Kharif
ii.	Title of On farm Trial	Assessment of integrated leaf minor management in Kharif tomato
iii.	Thematic area	Integrated pest management
iv.	Problem diagnosed	Suitable chemical control measure is not available
v.	Important cause	Invasive dipteran pest causing menace in tomato growing areas
Vi	Production system	Rice-tomato
Vi i	Micro farming system	Medium land irrigated, sandyloam
Vi ii	Technology for testing	IPM of leaf minor in tomato
Ix	Existing practice	Spraying of triazophos/cypermethrin/chloropyriphos
X	Hypothesis	TO ₂ would be effective due to combined effect of cultural & chemical management of invasive pest using insecticides & insect growth regulator
xi.	Objective	Management of leaf minor in tomato to minimize yield loss
xii .	Treatment	FP: Spraying of triazophos/cypermethrin/chloropyriphos TO1: Removal of alternate host, growing of seedlings in protected condition, pruning of affected leaves from the beginning, placing of plastic trays @10-12/ha at the base of the plant for monitoring and alternate spraying of Abamectin @1.4ml/lt & Cryamazine 50WP @ 2gm/ltr at 10 days interval TO2: Removal of alternate host, growing of seedlings in protected cultivation, pruning of affected leaves from the beginning, placing of plastic trays @10-12/ha at the base of the plant for monitoring and alternate spraying of Cartap hydrochloride 50 SP @ 2gm/ ltr of water & Spinosad 45 SC @ 1ml/ 3 ltr of water at 10 days interval
xii i.	Critical input	TO ₁ : Abamectine @ 1.4ml/ltr and cyramazine 50WP TO ₂ : Plastic trays, Cartap hydrochloride 50 SP @ 2gm/ ltr of water & Spinosad 45 SC @ 1ml/ 3 ltr of water
Xi v	Unit size	0.02ha
X v	No of replication	7
xv i.	Unit cost	1700
xv	Total cost	11900

ii.		
xv iii.	Monitoring indicator	No of infested leaves /plant, % of infestation
xi x	Source of Technology (ICAR/AICRP/SAU/other, please specify)	Kerla Agriculture Univ., 2015

OFT 3:

i.	Season	Rabi
ii.	Title of On farm Trial	Assessment of different marigold varieties for higher yield and big sized flowers
iii.	Thematic area	Varietal evaluation
iv.	Problem diagnosed	Small flower leading to low yield in locally available varieties
v.	Important cause	Less income due to flower size & no/plant
Vi	Production system	Paddy - marigold
Vi i	Micro farming system	Irrigated –Medium land Paddy-Marigold
Vi ii	Technology for testing	Different marigold variety
Ix	Existing practice	Seracole
X	Hypothesis	Arkaagni variety has more potential yield
xi.	Objective	To increase flower yield & keeping quality
xii .	Treatment	FP: Seracole TO ₁ : Bidhan Marigold-2 TO ₂ : Arka Agni
xii i.	Critical input	Seedlings
Xi v	Unit size	0.1 ha
X v	No of replication	7
xv i.	Unit cost	Rs.800
xv ii.	Total cost	Rs.5600
xv iii.	Monitoring indicator	Flower diameter, No. of flowers per plant, flower yield (q/ha)
xi x	Source of Technology (ICAR/AICRP/SAU/other, please specify)	TO1: BCKV, WB TO2: IIHR, Bangalore

OFT 4:

i.	Season	Rabi
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ii.	Title of On farm Trial	Assessment of triple resistant (early blight, bacterial wilt, leaf curl virus) tomato hybrids
iii.	Thematic area	Varietal evaluation
iv.	Problem diagnosed	Low yield of local varieties and high wilting, early blight and leaf curl incidence
v.	Important cause	Yield loss due to disease & pest
vi.	Production system	Pady- vegetable
vii.	Micro farming system	Irrigated –Medium Land
viii.	Technology for testing	Different triple resistant variety
ix.	Existing practice	Chiranjiv
X	Hypothesis	Arkasamrat variety has triple resistant characteristic & yield loss should be less
xi.	Objective	To increase the production of tomato
xii.	Treatment	FP: Chiranjiv TO1: ArkaRakhyak hybrid TO2: Arka Samrat hybrid
xiii.	Critical input	Seedlings
Xiv	Unit size	0.1ha
Xv	No of replication	7
xvi.	Unit cost	Rs.1000
xvii	Total cost	Rs.7000
xviii	Monitoring indicator	Wilt incidence (%), PDI of early blight,, Fruit wt(g), No of fruits per plant, Yield (q/ha)
xix	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source : IIHR, Banagalore

OFT 5:

i.	Season	Rabi
ii.	Title of On farm Trial	Assessment of Tractor drawn Whole straw Paddy Thresher for bundle straw production
iii.	Thematic area	Farm Mechanization
iv.	Problem diagnosed	High demand for bundle straw for mushroom production
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 and increases the cost of mushroom production. So an OFT has been designed on tractor drawn whole straw paddy thresher for production of bundle straw using less labour.
vi.	Production system	Paddy-Greengram
vii.	Micro farming system	Rainfed Low land
viii.	Technology for testing	Tractor drawn Whole straw Paddy Thresher
ix.	Existing practice	Use of padal 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. Threshing capacity – 5qtl/h, which reduces the cost of bundle straw production.

xi.	Objective	Bundle straw production for mushroom cultivation by involving less labour, time and cost
xii.	Treatment	FP: Use of padal Thresher TO1: Power thresher cum winnower TO2: Tractor drawn whole straw Paddy thresher
xiii.	Critical input	OFT will be conducted in association with AICRP on FIM, CAET, OUAT (Hiring/ Transportation & Fuel cost)
Xiv	Unit size	0.1
Xv	No of replication	10
xvi.	Unit cost	400/-
xvii	Total cost	4000/-
xviii	Monitoring indicator	Threshing capacity(q/h), Labour requirement – (MDs/q), Threshing efficiency
xix	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO1: Validated by Implement Factory, BBSR,2001 TO2: Validated by AICRP on FIM,CAET,OUAT,2016

OFT 6:

i.	Season	Rabi
ii.	Title of On farm Trial	Assessment of Self propelled Rice transplanters for mechanized line transplanting in Rabi season
iii.	Thematic area	Farm mechanization
iv.	Problem diagnosed	High labour cost and more time involved in manual line transplanting
v.	Important cause	Lack of skill in MAT type seedling raising and operation & adjustment of Transplanter
Vi	Production system	Fallow - Paddy
Vii	Micro farming system	Irrigated Low land
Viii	Technology for testing	Self Propelled Rice Transplanters for mechanized line sowing
Ix	Existing practice	Manual line Transplanting with the help of rope and guide
X	Hypothesis	Field capacity of Transplanters – 0.15ha/h. It reduces the cost of operation by (50-60)%
xi.	Objective	Mechanized line transplanting in Paddy
xii.	Treatment	FP: Manual line Transplanting with the help of rope and guide TO1: Self Propelled 8-row Rice Transplanter TO2: 4-row Walk behind type Self Propelled Paddy Transplanter
xiii.	Critical input	Hiring cost of Transplanter, Polythene, Seedling raising frame
Xiv	Unit size	1.0
Xv	No of replication	5
xvi.	Unit cost	Rs1600/-
xvii	Total cost	Rs.8000/-
xviii	Monitoring indicator	Field capacity(ha/h), Time saving, Labour requirement(MDs/ha), No of tillers/hill, No of seedlings/hill

xix	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO1: Released by AICRP on FIM, CAET, OUAT,2015 as transferrable technology TO2: Validated by AICRP on FIM, CAET, OUAT, 2016
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OFT 7

i.	Season	Round the year
ii.	Title of On farm Trial	Assessment of goat breeds for upgradation of non descript goats in semi intensive farming system
iii.	Thematic area	Varietal evaluation
iv.	Problem diagnosed	Low weight gain in goats, low birth weight in kids and
v.	Important cause	less weight at weaning in non descript animals
vi.	Production system	-
vii.	Micro farming system	Semi intensive goat rearing
viii.	Technology for testing	Upgradation of non descript goats
ix.	Existing practice	Existing local buck
x.	Hypothesis	TO2 is expected to produce better result over TO1
xi.	Objective	To get more weight gain in goat and normal birth weight in kids
xii.	Treatment	FP: Existing local buck TO1: Rotation of Black Bengal bucks, periodic deworming (3 times/yr) , vaccination (PPR, Goat pox, ET, FMD) and mineral supplementation TO2: Rotation of Ganjam bucks combined periodic deworming (3 times/yr), vaccination(PPR, Goat pox, ET, FMD) and mineral supplementation
xiii.	Critical input	Ganjam buck, Black Bengal buck
xiv.	Unit size	-
xv.	No of replication	3
xvi.	Unit cost	Rs 6,000
xvii.	Total cost	Rs 18,000
xviii.	Monitoring indicator	Body weight at birth, at weaning (3months) and at marketable age (9-12 months), age at puberty
xix.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO1: Released by AICRP on FIM, CAET, OUAT,2015 as transferrable technology TO2: Validated by AICRP on FIM, CAET, OUAT, 2016

OFT 8:

i.	Season	Round the Year
ii.	Title of On farm Trial	Assessment of Amur carp , <i>Cyprinus carpio haematopterus</i> in carp polyculture
iii.	Thematic area	Composite fish culture
iv.	Problem diagnosed	Low fish production from carp culture
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	-
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	To get more yield by stocking Amur carp with IMC
xii.	Treatment	FP: Stocking of Catla:Rohu:Mrigal = 3:4:3 TO1: Stocking of Catla:Rohu:Mrigal:Amur carp= 3:4:2:1 TO2: Stocking of Catla:Rohu:Mrigal:Amur carp= 3:4:1:2 TO3: Stocking of Catla:Rohu:Amur carp = 3:4:3
xiii.	Critical input	Fingerlings of Amur Carp
Xiv	Unit size	0.4 ha
Xv	No of replication	7
xvi.	Unit cost	Rs 1100
xvii	Total cost	Rs 7700
xviii	Monitoring indicator	Average body weight, DO, Plankton, Alkalinity
xix	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	NFDB News letter, 2016

OFT 10:

i.	Season	Round the Year
ii.	Title of On farm Trial	Assessment of Java Punti, <i>Puntius gonionotus</i> in composite fish culture
iii.	Thematic area	Composite fish culture
iv.	Problem diagnosed	Low yield and income due to traditional IMC culture with improper stocking density and ratio
v.	Important cause	Less net production due to non culture practice of minor carps as intercrop with IMC
Vi	Production system	Pond based
Vii	Micro farming system	-

Viii	Technology for testing	Intercropping of Java Puntl at different proportion with IMC
Ix	Existing practice	Culture of IMC only
X	Hypothesis	TO2 is expected to impart more yield due to additional stocking of 20% of Java Puntl as compared to TO1 where the stocking density is 10%
xi.	Objective	To get additional return from Java Puntl
xii.	Treatment	FP: Culture of IMC only TO1: Incorporation of Java Puntl with IMC i.e. stocking of Catla:Rohu:Mrigal:Java Puntl::3:4:3:1 @ 10000 nos/ha TO2: Incorporation of Java Puntl with IMC i.e. stocking of Catla:Rohu:Mrigal:Java Puntl::3:4:3:2 @ 10000 nos/ha
xiii.	Critical input	Fingerlings of Java Puntl
Xiv	Unit size	0.25 ha
Xv	No of replication	7
xvi.	Unit cost	Rs 1200
xvii	Total cost	Rs 8400
xviii	Monitoring indicator	Average body weight, culture duration of Java Puntl, plankton density (ml/50 Lit)
xix	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CIFA, BBSR,2004, www.cifa.nic.in

OFT 11:

i.	Season	Kharif
ii.	Title of On farm Trial	Assessment 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	To increase shelf life of paddy straw mushroom in budding stage
xii.	Treatment	FP: Unwashed fresh fruit bodies in bud stage in polythene bags TO ₁ : Fresh Mushrooms Buds washed with potassium meta bisulphite (KMS 0.1% and 0.1% citric acid,) for 10 minutes and allowed to air dry on muslin cloth for 30 min and then packed in perforated polypropylene bags punched with 10 holes stored at room temperature TO ₂ : Fresh Mushrooms Buds treated with potassium meta bisulphite (KMS 0.1% and 0.1% 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 (0.5 cm diameter) stored at room temperature
xiii.	Critical input	Citric Acid, KMS, Paper Bags, Poly propylene bags
Xiv	Unit size	20 kg
Xv	No of replication	10
xvi.	Unit cost	500
xvii	Total cost	5000
xviii	Monitoring indicator	Sensory Evaluation, Weight loss(%) Shelf life(Hours)
xix	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	PAU,2010

OFT 12:

i.	Season	Round the Year,2019-20
ii.	Title of On farm Trial	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	
Vii	Micro farming system	Homestead
Viii	Technology for testing	Use of Cocopeat 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	To produce vegetable seedling
xii.	Treatment	FP: Use of FYM+ Sand+ Soil(1:1:1) for seedling raising TO ₁ : 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. TO ₂ : Use of Arka Fermented Cocopeat for raising seedlings
xiii.	Critical input	Vegetable seeds, Protray,cocopeat
Xiv	Unit size	1000 seedlings
Xv	No of replication	10
xvi.	Unit cost	400
xvii	Total cost	4000
xviii	Monitoring indicator	Seedling mortality(%), height of the seedling, age of the seedling for transplanting(Days)

xix	Source of Technology (ICAR/AICRP/SAU/other, please specify)	TO ₁ : CIWA, Bhubaneswar http://icar-ciwa.org.in/gks/index.php/wft/113-protrayseedling TO ₂ : IIHR, Bangalore https://ihr.res.in/production-technology-arka-fermented-coco-peat
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OFT 13:

i.	Season	Rabi
ii.	Title of On farm Trial	Assessment of different planting time for better market price of Tomato
iii.	Thematic area	Market led extension
iv.	Problem diagnosed	Distress sale of Tomato in rabi season
v.	Important cause	At a time harvesting creates a huge lot in the season
vi.	Production system	Rice-tomato
vii.	Micro farming system	Irrigated medium land, paddy-vegetable
vii i.	Technology for testing	Different planting time of Tomato
ix.	Existing practice	Farmers generally plant the seedling in the month of October
x.	Hypothesis	Both the planting time will reduce the distress sale by reducing the market glut
xi.	Objective	To get a better market price of tomato by reducing the distress sale
xii.	Treatment	FP: Farmers generally plant the seedling in the month of October TO ₁ : Planting of seedling 15 days before onset of normal planting period TO ₂ : Planting of seedling 15 days after completion of normal planting period
xiii.	Critical input	Seedlings
xi v.	Unit size	0.1 ha
xv.	No of replication	7
xvi.	Unit cost	600
xvi i.	Total cost	4200
xvi ii.	Monitoring indicator	Plant height, no of fruits/plant, fruit weight, disease & pest incidence, market price
xix.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	-

OFT 14:

i.	Season	Kharif
ii.	Title of On farm Trial	Title: Assessment of rice varieties tolerance to BPH/WBPH during kharif
iii.	Thematic area	Integrated pest management
iv.	Problem diagnosed	Lower yield due to high BPH/WBPH Infestation
v.	Important cause	Unavailability of suitable BPH resistant variety
vi.	Production system	Rice-rice
vii.	Micro farming system	Rainfed, low land , paddy-greengram
viii.	Technology for testing	Varietal evaluation of Hasant & pooja
ix.	Existing practice	Swarna (MTU 7029)
x.	Hypothesis	TO ₁ may perform better in reducing BPH infestation
xi.	Objective	To know & show the potential of the two technology options in reducing BPH infestation
xii.	Treatment	FP: Swarna (MTU 7029) TO ₁ : Cultivation of tolerant variety Hasant TO ₂ : Cultivation of tolerant variety Pooja
xiii.	Critical input	Seed
xiv.	Unit size	0.1ha
xv.	No of replication	10
xvi.	Unit cost	400
xvii.	Total cost	4000
xviii.	Monitoring indicator	No. of BPH-WBPH/Hill , Effective panicles/m ² , No of Filled grains /Panicle, 1000 grain weight
xix.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO ₁ : AICRP on Rice, Chiplima, Odisha, 2015 TO ₂ : NRRI, Cuttack, Odisha, 2002

OFT 15:

i.	Season	Kharif
ii.	Title of On farm Trial	Assessment of submergence tolerant rice variety in Kharif
iii.	Thematic area	Varietal evaluation
iv.	Problem diagnosed	Lower yield due to less tolerant of local varieties to waterlogging
v.	Important cause	Unavailability of suitable BPH resistant variety
vi.	Production system	
vii.	Micro farming system	Rainfed, low land , paddy-greengram

Viii	Technology for testing	Variety testing
Ix	Existing practice	Swarna (MTU 7029)
X	Hypothesis	TO ₁ may perform better in reducing BPH infestation
xi.	Objective	To know & show the potential of the two technology options in reducing BPH infestation
xii.	Treatment	FP: Swarna (MTU 7029) TO ₁ : Swarna Sub 1 TO ₂ : CR 1009 sub 1
xiii.	Critical input	Seed
Xiv	Unit size	0.1ha
Xv	No of replication	10
xvi.	Unit cost	400
xvii	Total cost	4000
xviii	Monitoring indicator	Water submergence period, Effective panicles/m ² , No of Filled grains /Panicle, 1000 grain weight
xix	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO ₁ : Source : NRRI, Cuttack, Odisha,2014 TO ₂ : TNAU, Tamilnadu, 2015

*Repeat the same format for EACH OFT being proposed.

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

Sl. No.	Name of the project	Fund expected (Rs.)
		Amount to be received (Rs. in lakh)
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- 4

12. Scientific Advisory Committee

Date of SAC meeting held during 2018-19	Proposed date during 2019-2020
14.3.19	27.9.19

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	200												
Water Samples	50												
Other (Please specify)													
Total	250												





14. Fund requirement and expenditure (Rs.)*



Heads	Expenditure (last year) (Rs.) up to 31.03.2019	Expected fund requirement (Rs.)
Contingency	11,00,000	16,00,000
TA	75,000	2,00,000
Maintenance of Existing Office Building	Nil	1,00,000
Total	11,75,000	19,00,000

* Any additional requirement may be suitably justified.

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

List of technologies demonstrated and popularized during previous years and recommended for large scale adoption in the district

Crop/ Enterprise	Thematic Area	Technology demonstrated	Horizontal spread of technology			Photographs
			No. of village s	No. of farmer s	Are a in ha	
Paddy	Varietal Evaluation	Var.Swarna Sub-1	324	4580	625 6	
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	8	24	7	
Greengra m	IPM	Seed treatment with Imidacloprid 600FS@5ml/kg seed,Instalation of YST@25/ha, alternate spraying of Neem oil (300ppm)@2.5ltr/ha and Difenthiuron 50% WP@500gm/ha at 10 days interval at 40 DAS	25	80	32	
Banana	Varietal Evaluation	Cultivation of tissue culture banana var. Patakapura with 10kg FYM +1kg neem cake +200gm N, 60gm P,300gm K per plant	12	56	13.2	

Crop/ Enterprise	Thematic Area	Technology demonstrated	Horizontal spread of technology			Photographs
			No. of village s	No. of farmer s	Are a in ha	
Piscicultur e	Fish feed managem ent	Application of Floating fish feed @ 1% body weight daily in composite carp culture	35	150	320	
Piscicultur e	Composite carp culture	Stocking of grow out ponds with Catla:Jayanti Rohu:Mrigal fingerlings@ 3000:4000:3000 nos per ha	48	190	455	
Mushroo m	Income generation	Cultivation in agro shade net house (75%) with substrate treatment in lime solution (2%)	12	56	-	