

REVISED PROFORMA FOR ACTION PLAN 2019-2020

1. Name of the KVK: Dhenkanal

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KVK, Dhenkanal, RRTTS Campus, Mahisapat, Dhenkanal, pin-759013	06762286610	kvkdhenkanal.ouat@gmail.com, dhenkanalkvk@yahoo.com

2. Name of host organization :

Address	Telephone		E mail
	Office	FAX	
Orissa University of Agriculture and Technology, Bhubaneswar	0674-2397818/919	0674-2397424	registrarouat@gmail.com

3. Training programme to be organized (April 2019 to March 2020)

(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						
Feed management	Hybrid Napier (CO-4) fodder production in dairy farming.	1	1 day	Off campus	2nd week and June															25
Feed management	Hydroponic fodder production for feeding in dairy farming.	1	1 day	Off campus	1st week and July															25
Poultry management	Artificial brooding management in chicks.	1	1 day	Off campus	1st week and June															25
Feed management	Fodder cultivation strategies for cost effective milk production	1	1 day	Off campus	3rd week and July															25
Poultry management	Production performance of Kadaknath breed, Aseel breed and SPL-01 variety of chicken in semi intensive system of poultry rearing.	1	1 day	Off campus	4th week and June															25
Dairy	Clean milk	1	1 day	Off campus	2nd week															25

managemen t	production				and September												
Disease managemen t	Prevention and control of different diseases of cattle having economic impact on dairy sector	1	1 day	Off campus	2nd week and June												25
Disease managemen t	Prevention and control measures for PPR disease in small ruminants	1	1 day	Off campus	1st week and september												25
Goat managemen t	Body weight gain and performances of sheep/ goat basing on housing system	1	1 day	Off campus	3rd week and December												25
Goat managemen t	Genetic upgradation of non descript goats	1	1 day	Off campus	1st week and January												25
Feed managemen t	Effect of probiotic supplementation on quantity and quality of milk production	1	1 day	Off campus	2nd week and January												25
IDM	Use of herbicides for controlling different kind of weeds in kharif groundnut.	1	2	Off campus	July 1st week.												25
IPM	Application of different chemical seed treating chemicals for management of root rot in greengram.	1	2	Off campus	October, 2nd week												25
Bio-control of pests and diseases	Application of different bio-seed treating chemicals for management of root rot in greengram.	1		Off campus													25

IPM	Use of IPM practices for vector management for YMV in greengram	1	2	Off campus	October 3rd week														25
IDM	Use of herbicides for controlling different kind of weeds in rabi greengram.	1	2	Off campus	November 2nd week														25
IPM	Use of IPM practices for management of pod borer complex in pigeonpea.	1		Off campus															25
Bio-control of pests and diseases	Use of biological practices for management of inflorescence hopper in mango	1	2	Off campus	Feb 2nd week														25
IPM	Use of IPM practices for vector management for YMV in okra	1	2	Off campus	Dec 1st week														25
Bio-control of pests and diseases	Use of Botanicals and chemicals for management of thrips in chilli	1	2	Off campus	Dec 2nd week														25
IPM	Use of new generation insecticides for management of serpentine leaf miner in kharif tomato	1	2	Off campus	Aug. 1st week														25
IPM	Use of cultural practices for management of BPH in paddy	1	2	Off campus	Sept. 2nd week														25
Composite pisciculture & fish disease	pond preparation before stocking of fish(2nos)	1	2	Off campus	May last week .														25
Composite pisciculture & fish disease	Stocking of Jayanti rohu in composite pisciculture(2n	1	2	Off campus	Jun 1st week														25

	os)																
Fish feed preparation & its application to fish pond like nursery, rearing & stocking pond	Use of fam made fish feed by using locally available low cost feed ingredients(2nos)	1	2	Off campus	July 1st week												25
Composite pisciculture & fish disease	Post stocking management in grow out tank(2nos)	1	2	Off campus	August 2nd week												25
Composite pisciculture & fish disease	Fish disease control in pisciculture tank	1	1	On campus	Oct last week												25
Household food security by kitchen gardening and nutrition gardening	Use of locally made household food supplements to improve food security	1	2days	Off campus	3rd week and April												25
Designing and development for high nutrient efficiency diet	Off season backyard vegetable cultivation	1	2days	Off campus	4th week and May												25
Location specific drudgery reduction technology	Operational procedure of low cost small tool and implements of drudgery reduction of Farm Women.	1	2days	Off campus	3rd week and June												25
Design and development of low/minimum cost diet	Household nutritional security through backyard farming	1	2days	Off campus	4th week and August												25
Storage loss minimisation technique	Storage of vegetables in Zero Energy Cool Chamber to minimize post harvest loss	1	2days	Off campus	3rd week and November												25

Enterprise development	Promotion of microenterprises for self employment	1	2days	Off campus	4th week and November															25
IGAs for empowerment of rural women	Mushroom cultivation from crumpled straw	1	2days	Off campus	1st week and July															25
Value addition	Preparation of value added products from tomato	1	2days	Off campus	1st week and December															25
Enterprise Development	Operation of Akola mini dal mill for processing of Peageon pea	1	2days	On campus	3rd week and January															25
Value addition	Post harvest management of Mango	1	2	On campus	2nd week of june															25
Management of young plants/orchard	Cannopy management in mango orchard	1	2	On campus	4th week of june															25
Others, if any (Cultivation of Vegetable)	Cultivation of highyielding variety drumstick	1	2	Off campus	1st week of july															25
Nursery raising	Vegetable seedling raising technique in rainy season	1	1	Off campus	3rd week August															25
Off-season vegetables	Weed management in Kharif Onion	1	1	Off campus	3rd week September															25
Production and management technology	Cultivation practices in Aromatic crop	1	1	Off campus	4th week of october															25
Yield increment	Production technology of Hybrid chilli	1	1	Off campus	3rd week of November															25
Cultivation of Fruit	Production Technology of Minor Fruits	1	2	On campus	1st week of December															25
Integrated nutrient management	Fertilizer management in Chilly	1	2	On campus	4th week of December															25
Protective cultivation (Green Houses,	Protected cultivation of vegetables	1	1	Off campus	4th week of January															25

Shade Net etc.)															
Farm mechanization	Operation and maintenance of dry land power weeder	1	2	Off campus	4th week of October										25
Farm mechanization	Operation and maintenance of tractor drawn seed cum fertilizer drill	1	2	Off campus	2 nd week of December										25

(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		
Skill development	Seed production and marketing of Tomato Seeds	1	2days	ONC	1st week of February											15
Skill development	Seed production and seed extraction techniques in Chili	1	2days	ONC	4th week of February											15
Bio-control of pests and diseases	Use of biological practices for management of Sweet potato weevil in Sweet potato.	1	2days	ONC	June, 4th week.											15
Bio-control of pests and diseases	Use of bio-intensive management for shoot and fruit borer in brinjal.	1	2days	ONC	November 1st week.											15
Gender mainstreaming through SHGs	Marketing strategies for SHGs	1	2days	ONC	4th week and July											15
Enterprise development	Marketing strategy & value chain development	1	2days	ONC	3rd week and September											15
Feed management	low cost silage making for feeding cows during lean period.	1	2 days	ONC	1st week and October											15
Feed management	Urea Molasses Mineral Block (UMMB) supplementation for improved milk yield in dairy cows	1	2days	ONC	1st week and December											15
Carp breeding & hatchery management	Quality seed production technology of IMC	1	2days	ONC	Sept 2nd week											15

(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						
Propagation techniques of Ornamental Plants	Production Technology of Tuberose for income generation	1	2 days	On campus	2nd week of January															15
Production of bio control agents and bio pesticides	Use of newer molecule for management of insects in vegetables.	1	2 days	On campus	January 1st week.															15
Capacity building	Women friendly tools and implements for drudgery reduction of Farm Women	1	1 day	On campus	3rd week and September															15
Disease management	Ethnoveterinary practice applications in field conditions	1	1 day	On campus	1st week and October															15
Others	Recent advance in F.W aquaculture technology	1	1 day	On campus	Dec 2nd week															15
Micro Irrigation	Use of micro irrigation system for horticultural crops	1	2days	On campus	October 2nd week															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																						
Resource Conservation Technologies																						
Cropping Systems																						
Crop Diversification																						
Integrated Farming																						
Water management																						
Seed production																						
Nursery management																						
Integrated Crop Management																						
Fodder production																						
Production of organic inputs																						
Others, (cultivation of crops)																						
TOTAL																						
II. Horticulture																						
a) Vegetable Crops																						
Integrated nutrient management	1																					25

Thematic Area	No. of Course s	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													
Yield increment	1												25
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
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													
Export potential fruits	1												25
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
TOTAL													
c) Ornamental Plants													
Nursery Management	1												25
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any	1												25
TOTAL													
d) Plantation crops													
Production and Management technology													
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													
Production and management	1												25

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
technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
TOTAL													
IV. Livestock Production and Management													
Dairy Management	1												25
Poultry Management	2												50
Piggery Management													
Rabbit Management													
Disease Management	2												50
Feed management	4												100
Production of quality animal products													
Others, if any (Goat farming)	2												50
TOTAL													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	1												25
Design and development of low/minimum cost diet	2												50
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	2												50
Value addition	2												50
Income generation activities for empowerment of rural Women	1												25
Location specific drudgery reduction technologies	1												25
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
TOTAL													
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													

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 small tools and implements													
Repair and maintenance of farm machinery and implements	2												50
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
TOTAL													
VII. Plant Protection													
Integrated Pest Management	6												150
Integrated Disease Management	2												50
Bio-control of pests and diseases	2												50
Production of bio control agents and bio 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	4												100
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	1												25
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													
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													

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
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
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												30
Production of organic inputs													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying	2												30
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													

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			
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												15
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development	1												15
Others if any (ICT application in agriculture)	3												45
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	1												15
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals	1												15
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														
Crop intensification														
Others if any	4													60
TOTAL														

4. Frontline demonstration 1 to be conducted

Crop:	Mango
Thrust Area:	Post harvest management
Thematic Area:	Export potential fruits
Season:	Kharif -2019
Farming Situation:	Upland, rainfed

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	Mango	10	Hot water treatment at 45 ^o C for 15 minutesto increase ripening quality and storage life of mango	Fruit weight, shelf life, TSS%	Locally purchase mango, plastic crate	10,000	5,000												10

Frontline demonstration 2 to be conducted

Crop:	Tomato
Thrust Area:	Varietal Substitution in field and vegetable crop
Thematic Area:	Yield increment
Season:	Rabi, 2019-20
Farming Situation:	Medium land ,Irrigated

						Cost of Cultivation (Rs.)	No. of farmers / demonstration
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Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Tomato	10	Arka Rakyak: High yielding F1 hybrid developed by crossing IIHR-2834 X IIHR-2833. First F1 hybrid with triple disease resistance to ToLCV, BW and early blight. Fruits square round, large (90-100g), deep red colored and firm. Suitable for fresh market and processing. Yield: 75-80 t/ha in 140 days	Wilt incidence (%), PDI of early blight,, Fruit wt(g), No of fruits per plant, Yield (q/ha)	Seedling	10,000	5,000									10

Frontline demonstration 3 to be conducted

Crop:	Brinjal
Thrust Area:	Varietal Substitution in field and vegetable crop
Thematic Area:	Yield increment
Season:	Rabi, 2019-20
Farming Situation:	Upland, rainfed

Sl.	Crop & variety	Proposed	Technology	Parameter (Data)	Cost of Cultivation (Rs.)		No. of farmers / demonstration			
					Demo		SC	ST	Other	Total

N o.	/ Enterp rises	Area (ha)/ Unit (No.)	package for demonstr ation	in relation to technolo gy	Name of Inputs	Loc al	M	F	M	F	M	F	M	F	T	
1	Brinjal	10	Fruit : Medium size (250 g), round, attractive green colour with white stripes. Loc ally preferred for better quality. Resi stant to bacterial wilt. Time of sowing : July- August and February- March. Spa cing : 60 cm x 50 cm. Seed rate : 250- 300 g/ha. Maturity : First harvest 35- 40 days after planting, Yield: 60- 65 t/ha	Wilt incidence (%), Fruit wt(g), No of fruits per plant, Yield (q/ha)	Seedling	10,000	5,000									10

Frontline demonstration 4 to be conducted*

Crop:	Fish
Thrust Area:	Promotion of scientific pisciculture for ensuring high productivity and income
Thematic Area:	Production and management
Season:	Kharif 2019
Farming Situation:	Low land pond based

Crop &	Propo sed	Technology package for	Param eter	Cost of Cultivation (Rs.)	No. of farmers / demonstration
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Sl. No	variety / Enterprises	Area (ha)/ Unit (No.)	demonstration	(Data) in relation to technology demonstrated	Name of Inputs	Demo	Local	SC		ST		Other		Total			
								M	F	M	F	M	F	M	F	T	
01	Fish	2ha (05)	Preparation of farm made feed using locally available feed ingredients GNOC:MO C: dry fish and prawn powder :vitamin mineral mixture:RB (2:1:1:1.5) and feeding@5 -2% body weight.	Avg wt ,FCR	GNOC ,MOC, Protein powder ,vitamin mineral mixture , rice bran ,dry fish meal and fish seed	40,000	15,000										05

Frontline demonstration 5 to be conducted*

Crop:	Fish
Thrust Area:	Promotion of scientific pisciculture for ensuring high productivity and income
Thematic Area:	Diversified Aquaculture
Season:	Kharif 2019
Farming Situation:	Low land pond based

Sl	Crop & variety /	Proposed Area	Technology package for	Parameter (Data)	Cost of Cultivation (Rs.)			No. of farmers / demonstration			
						Demo		SC	ST	Other	Total

N o.	Enterp rises	(ha)/ Unit (No.)	demonstra tion	in relation to technolo gy	Name of Inputs		Loca l	M	F	M	F	M	F	M	F	T	
1	Fish	2ha(5)	Stocking ratio catla:rohu : mrigala : Amur carp: : 30:40:20:1 0	Avg wt , growth rate (%)	Amur carp seed,I MC Seed	25,00 0	12,0 00										05

Frontline demonstration 6 to be conducted*

Crop:	Maize fodder
Thrust Area:	Promotion of fodder preservation technique amongst the dairy farmers during lean period
Thematic Area:	Feed management
Season:	Kharif
Farming Situation:	Semi intensive dairy farming.

Sl . N o.	Crop & variety / Enterp rises	Prop osed Area (ha)/ Unit (No.)	Technology package for demonstrat ion	Paramet er (Data) in relation to technolo gy demonstr ated	Cost of Cultivation (Rs.)			No. of farmers / demonstration										
					Name of Inputs	Demo	Loca l	SC		ST		Other		Total				
								M	F	M	F	M	F	M	F	T		
1	Maize/ Dairy	10	Maize fodder chaffed to approximat ely 2-3 cm size, added with lactobacillus inoculants at the rate of one <i>sporolac</i> sachet per 4 q fodder, put inside a	Cost of interventi on, additional income over additional investme nt(Rs/unit),Net income, B:C ratio	Cement rings and polythe ne													10

			plastic bag in airtight manner be maintained under anaerobic environment in silo tanks made of concentric cement rings of 3-5 ft diameter, for 8 week and feed the silage, after air drying, as a replacement for paddy straw at the level of 25-50% .															
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Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants				Other		Total		T
						SC		ST		M	F	M	F	
						M	F	M	F					
Training	Low cost silage making for feeding cows during lean period.	1	RY	2	On									15

Frontline demonstration 7 to be conducted*

Crop:	Hybrid napier perennial fodder
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Thrust Area:	To ensure the availability of fodder throughout the year amongst the dairy farmers
Thematic Area:	Feed management
Season:	Round the year
Farming Situation:	Semi intensive dairy farming

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				
2	Hybrid Napier/ Fodder	10	Hybrid Napier (CO-4) cultivation and feeding to cows round the year and feeding rate 6-8 kg/100 kg Body weight/cow.	Cost of intervention, additional income over additional investment(Rs/unit), Net Income, B:C ratio	Root slips															10

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	Hybrid Napier (CO-4) fodder production in dairy farming.	1	F and FW	1	Off															25

Frontline demonstration 8 to be conducted*

Crop:	Poultry
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Thrust Area:	Promotion of brooding technique
Thematic Area:	Poultry management
Season:	Round the year
Farming Situation:	Poultry farming

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	Loca l	SC		ST		Other		Total									
								M	F	M	F	M	F	M	F	T							
3	Poultry	10	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 electrolyte s, preventive antibiotics during brooding.	Cost of intervention, additional income over additional investment (Rs/unit), Net Income, B:C ratio	Brooder and medicines																		10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants		
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						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	
Training	Artificial brooding management in chicks.	1	F and FW	1	Off									25

Frontline demonstration 9 to be conducted*

Crop:	Dairy cows
Thrust Area:	Promotion of probiotics feeding in addition to other feed supplements used by dairy farmers for keeping ruminal flora and pH in balanced condition
Thematic Area:	Feed management
Season:	Rabi
Farming Situation:	Semi intensive dairy farming

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	Loca l	SC		ST		Other		Total					
								M	F	M	F	M	F	M	F	T			
1	Dairy cows	10	Feeding 20gm probiotics just before evening milk	Cost of intervention, additional income over additional investment(Rs/unit),Net income, B:C ratio	Probiotic feed supplement														10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants									
						SC		ST		Other		Total		T	
						M	F	M	F	M	F	M	F		
Training	Effect of probiotic supplementation on quantity and quality of milk production	1	F and FW	1	Off										25

Frontline demonstration 10 to be conducted*

Crop:	Paddy
Thrust Area:	Farm mechanisation
Thematic Area:	Drudgery reduction
Season:	Kharif
Farming Situation:	Rainfed medium land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Locality	SC		ST		Other		Total		T
								M	F	M	F	M	F	M	F	
1	Paddy & Enterprise	10 no	3 row rice transplanter maintains the uniform line spacing, row to row spacing 24 cm and average field capacity 160-180 m ² /hr having EER-20.6 kJ/min & WHR 127 beats/min, weighing 18 kg can be operated	Output(m ² /hr), WHR (Beats/min), Energy expenditure (kJ/min), % reduction in drudgery, % increase in efficiency												10

			by female workers in the puddle field at a speed of 0.75-1.5 km/hr dragging it in a mat-type seedlings. The transplanter is dragged by a handle maintains row-to-row spacing of 220 mm.														
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Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants				Other		Total		T
						SC		ST		M	F	M	F	
						M	F	M	F					
Training	Operational procedure of low cost small tool and implements of drudgery reduction of Farm Women.	1	F and FW	2days	Off									25

Frontline demonstration 11 to be conducted*

Crop:	Pegionpea
Thrust Area:	Food Processing
Thematic Area:	Enterprise development
Season:	Rabi & 2019-20
Farming Situation:	Homestead

Sl .	Crop & variety	Proposed	Technology	Parameter (Data) in	Cost of Cultivation (Rs.)	No. of farmers / demonstration
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N o.	/ Enterpr rises	Area (ha)/ Unit (No.)	package for demonstr ation	relation to technology demonstra ted	Name of Inputs	De mo	Loca l	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
2	Peagion pea/Ent erprise	10no	Field capacity: 100kg / hr, 3hp single phase motor including grader and aspiration system . Scraping of pigeon pea followed by oil treatment @ 300ml / q, drying under sun . After one night, spraying of water @ 5/7 lit/q followed by soaking in water for 2-3 hr and milling	Field capacity (kg/hr), Labour (MDs/q), Damaged / Broken(%), recovery (%), Husk(%), Energy expenditure rate(kJ/min),WHR(beat s/min),% increase in efficiency, % reduction in drudgery, CBR	Dal											10

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	Marketing strategy & value chain development	1	RY	2days	ON										15
Training	Operation of Akola mini dal mill for processing of Peageon pea	1	F and FW	2days	off										25

Frontline demonstration 12 to be conducted*

Crop:	Oyster mushroom
Thrust Area:	Food Processing
Thematic Area:	Value addition
Season:	Rabi2019-20
Farming Situation:	Homestead

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				
3	Oyster mushroom	10	Soaking of mushroom for 6-7 hrs in preservatives (0.6 gm potassium metabisulphide & 10 g citric acid/kg fresh mushroom diluted in one lit normal water) followed by drying in sun for 3 consecutive days	Sensory evaluation- (Colour, flavour, Taste, Overall acceptability), Self life (Days).	Chemicals (Citric acid and KMS), zip lock polythene															10

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	Marketing strategies for SHGs	1	RY	2 days	On									15

Frontline demonstration 13 to be conducted*

Crop:	Vegetables and fruits
Thrust Area:	Food and nutritional security
Thematic Area:	Nutrition Security
Season:	Round the year
Farming Situation:	Backyard

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	Loca l	SC		ST		Other		Total						
								M	F	M	F	M	F	M	F	T				
3	Vegetables	5 no	Nutritional garden with Protein, Vitamin and iron rich vegetables and fruits with consumer preference	Consumption of vegetable / day (kg), availability of vegetable / day (kg)	Pro tray, vegetable seeds and seedlings, polythene															5

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	Use of locally made household food supplements to improve food security	1	Fand FW	2days																25
Training	Off season backyard	1	Fand FW	2days																25

			interval till fruit formation																
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Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants														
						SC		ST		Other		Total		T						
						M	F	M	F	M	F	M	F							
Training	Use of Botanicals and chemicals for management of thrips in chilli	1	F & FW	2 days	Off															25

Frontline demonstration 15 to be conducted*

Crop:	Pigeonpea
Thrust Area:	
Thematic Area:	IPM
Season:	Kharif, 2019
Farming Situation:	Rainfed upland

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	Loca l	SC		ST		Other		Total		T					
								M	F	M	F	M	F	M	F						
1	Pigeonpea	10	Spraying of Azadiractin 0.15% @ 1.5 l/ha at 50% flowering	Pest monitoring ,no of infested fruits/plant																	10

			followed by flubendiamide 48SC @ 200ml/ha (2ml/5 litre water) and Bt @ 1kg/ha (2g/litre) at 15 days intervals															
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Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants													
						SC		ST		Other		Total		T					
						M	F	M	F	M	F	M	F						
Training	Use of IPM practices for management of pod borer complex in pigeonpea.	1	F & FW	2 days	Off														25

Frontline demonstration 16 to be conducted*

Crop:	Okra
Thrust Area:	
Thematic Area:	IPM
Season:	Kharif 2019
Farming Situation:	Irrigated medium land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration											
					Name of Inputs	Demo	Locality	SC		ST		Other		Total		T			
								M	F	M	F	M	F	M	F				
1	Okra	10	Seed Treatment with	No of white fly /three															10

			Imidacloprid 600 FS @ 5 gm / Kg, Installation of Yellow Sticky Trap @ 50 / ha and spraying Acetamiprid 20 SP @ 0.3 gm / Lit. at 30 and 45 DAS	leaves ,stage of crop														
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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	Use of IPM practices for vector management for YMV in okra	1	F & FW	2 days	Off													25

Frontline demonstration 17 to be conducted*

Crop:	Mango
Thrust Area:	
Thematic Area:	PIM
Season:	2019-20
Farming Situation:	Rainfed upland

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	Locality	SC		ST		Other		Total		T		
								M	F	M	F	M	F	M	F			
1	Mango	10	Four sprays of Metarhizium	Presence of hoppers in cracks														10

			anisopliae oil formulation @ 0.5ml/L at weekly interval	and crevices of trunk, presence of honey dew													
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Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								T			
						SC		ST		Other		Total					
						M	F	M	F	M	F	M	F				
Training	Use of biological practices for management of inflorescence hopper in mango	1	F & FW	2 days	Off												25

Frontline demonstration 18 to be conducted*

Crop:	Brinjal
Thrust Area:	
Thematic Area:	Farm mechanization
Season:	Rabi, 2019-20
Farming Situation:	Rabi, irrigated, upland , brinjal - brinjal

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	Brinjal	5	4-stroke petrol engine, 2.0 hp, Weeding, hoeing and	Field capacity (ha/h), Weeding Index, Labour requireme													5

			ridging are possible for the row spacing of 60 cm and above, Capacity-0.08 ha/h	nt (MDs / ha), Plant injury percentage (%), Fuel consumption (l/h)													
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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	Operation and maintenance of dry land power weeder	1	F & FW	2 days	Off													25

Frontline demonstration 19 to be conducted*

Crop:	Groundnut
Thrust Area:	
Thematic Area:	Farm mechanization
Season:	Rabi, 2019-20
Farming Situation:	Rabi, irrigated, upland, paddy - groundnut

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	Groundnut	5	Tractor drawn Multi crop seed cum Fertilizer drill: Field capacity – 0.4ha/h, 9 rows, cup feed type metering mechanism, shovel type furrow opener	Plant population / sqm, Labour requirement (MDs / ha), No. of missing plants per meter length, Field capacity (ha/h), Field efficiency (%)																	5

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	Operation and maintenance of tractor drawn seed cum fertilizer drill	1	F & FW	2 days	Off																25

2. 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	Pooja	30.6.19 to 25.11.19	6 ha	Foundation	200	480000	606200	126200
Tomato	Arka Rakhyak	Round the year		Seedlings	20000	30000	50000	20000
Brinjal	Swarna Shamli	Round the year		Seedlings	20000	30000	50000	20000
Drumstick	Bhagya	Round the year		Seedlings	2500	37500		
Papaya	Coorg Honey Dew	Round the year		Seedlings	2500	37500		
Palmarosa	PRC-1	Round the year		Seedlings	20000	30000	50000	20000
Chili	Arka harit	Round the year		Seedlings	15000	22500	37500	15000
Cauliflower	Trisha	Round the year		Seedlings	5000	7500	12500	5000
Cabbage	Pusa drum head	Round the year		Seedlings	5000	7500	12500	5000

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.)

3. Extension Activities

4. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2019)	Amount proposed to be invested during 2019-2020	Expected Return
165974	682500	818700

5. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
Mission Shakti	Govt. of Odisha	1065000
ASCI	ASCI	330400

9. On-farm trials to be conducted*

On-farm trials 1 to be conducted

i	Season:	Kharif, 2019-20
ii	Title of the OFT:	Assessment of drumstick varieties for higher yield
iii	Thematic Area:	Export potential vegetables
iv	Problem diagnosed:	Opportunity of good market demand, good performance of Bhagya variety
v	Important Cause:	Opportunity of good market demand, good performance of Bhagya variety
vi	Production system:	Vegetable production system
vii	Micro farming system:	Upland,Rainfed
viii	Technology for Testing:	Bhagya: Plant Height 2.5 to 3.0 m, Flowering 130 to 140 days, Pod length 65 to 70 Cm, Average no. of seeds /pod 18.8. Pod weight 154.75 g, Yield 300 to 350 pods /year (1 year), 800 to 1000 pods /year (Subsequent years), Yield- 42-50 t/ha, Leaves and Pod Rich in Vitamin C, iron
Ix	Existing Practice:	Loca variety(Desi Sjana)
x	Hypothesis:	
xi	Objective(s):	Opportunity of good market demand
xii	Treatments: Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II): and so on...	Local variety (Desi Sajana) Drumstick variety PKM 1 Drumstick variety Bhagya
xiii	Critical Inputs:	Sampling
xiv	Unit Size:	140 sampling /beneficiary
xv	No of Replications:	7
xvi	Unit Cost:	@15/- per seedling
xvii	Total Cost:	14,700
xviii	Monitoring Indicator:	Pod length, No of pods per plant, Pod yield (q/ha)
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	: TNAU, Coimbatore, 1989 Advances in production of moringa AICRP on vegetable crops, HCRI, TNAU, Periyakulum

On-farm trials 2 to be conducted

i	Season:	Rabi, 2019-20 (Year-I)
ii	Title of the OFT:	Assessment of different Chilli varieties for higher yield
iii	Thematic Area:	Production and Management technology
iv	Problem diagnosed:	Low yield due to use of local variety
v	Important Cause:	Low yield due to use of local variety
vi	Production system:	Vegetable production system
vii	Micro farming system:	Medium land,Irrigated
viii	Technology for Testing:	ArkaHaritha: F1 hybrid developed by using MS line. Plants tall (1m) & spreading (90cm.). Fruits medium long (10 cm) with width 1 cm. Fresh yield 310q/ ha and dry yield 60 q/ ha in 150-160 days. Fruits are dark green and turn red. Tolerant to powdery mildew and viruses.
Ix	Existing Practice:	Use of local variety Suryamukhi
x	Hypothesis:	
xi	Objective(s):	Cost of intervention. Additional income over additional investment Yield
xii	Treatments: Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II): and so on...	Suryamukhi Kashi Early Arka Haritha
xiii	Critical Inputs:	Seedling
xiv	Unit Size:	600 seedling /beneficiary
xv	No of Replications:	7
xvi	Unit Cost:	2.50/- per seedling
xvii	Total Cost:	10,500/-
xviii	Monitoring Indicator:	Fruit length (cm), Fruit no per plant, Fruit weight(g), Yield (q/ha)
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	IIHR, Bangalore https://iihr.res.in/chilli-arka-harita

On-farm trials 3 to be conducted

i	Season:	Rabi 2019-20
ii	Title of the OFT:	Assessment of value added products of tomato for income generation
iii	Thematic Area:	Value addition
iv	Problem diagnosed:	1.Distress sale of tomato 2.Non availability of storage unit
v	Important Cause:	Farm women will get better income
vi	Production system:	Vegetable production system
vii	Micro farming system:	Homestead
viii	Technology for Testing:	Tomatoes dried in cabinet drier @80°C for 10hours (Tomato powder-5.0g+Onion-0.5g+Corn flour-2 g+Cumin powder-0.5g+pepper-0.3g+salt-1.5g). Shelf life-6 months. Preparation of tomato powder in

		solar dryer by slicing of tomato in 5mm thickness, dehydrating in dehydrator for 7-8 hours, grinding and packaging, enhanced self life period upto 6-8 months
Ix	Existing Practice:	Selling of raw tomato
x	Hypothesis:	Tomato powder can be stored for 3 months
xi	Objective(s):	Tomato powder can be used as an alternative of tomato during off season
xii	Treatments: Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II): and so on...	FP:Selling of raw tomato TO -1-Preparation of tomato concentrate. Cooking tomato juice to desired consistency (36 to 38 bricks) by cold break method, bottling hot by pasteurizing the concentrate in hot water for 20 minutes T O-2 -Tomatoes dried in cabinet drier @80°C for 10hours (Tomato powder-5.0g+Onion-0.5g+Corn flour-2 g+Cumin powder-0.5g+pepper-0.3g+salt-1.5g). Shelf life-6 months. Preparation of tomato powder in solar dryer by slicing of tomato in 5mm thickness, dehydrating in dehydrator for 7-8 hours, grinding and packaging, enhanced self life period upto 6-8 months
xiii	Critical Inputs:	Chemicals, Zip lock polythene
xiv	Unit Size:	100 gm tomato powder/farmwomen
xv	No of Replications:	7
xvi	Unit Cost:	200
xvii	Total Cost:	1400
xviii	Monitoring Indicator:	Incremental income (Rs), Cost of preparation(Rs),Net income (Rs), BC ratio
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	PHT, Centre, TNAU, 2015

On-farm trials 4 to be conducted

	Season:	Kharif
ii	Title of the OFT:	Assessment of crumpled straw as an alternative substrate for paddy straw mushroom cultivation
iii	Thematic Area:	Mushroom production
iv	Problem diagnosed:	1.Non utilization of crumpled paddy straw after threshing with Axial flow thresher or combined harvester 2.Non availability of Bundle straw
v	Important Cause:	Suitable substrate for paddy straw mushroom
vi	Production system:	Mushroom production system
vii	Micro farming system:	Homestead
viii	Technology for Testing:	Use of crumpled straw in circular bed for mushroom

		cultivation
Ix	Existing Practice:	Use of bundle straw
x	Hypothesis:	Crumpled straw will be an better alternative substate as the biological efficiency is 7%
xi	Objective(s):	To raise paddy straw mushroom beds by using crumpled straw in the mechanized area
xii	Treatments: Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II): and so on...	FP: Production of paddy straw mushroom from rotten straw in rainy season. TO ₁ : Mushroom cultivation by using crumpled paddy straw from Axial flow thresher TO ₂ : Mushroom cultivation by using crumpled paddy straw from Bullock treading / tractor treading / Combined harvester
xiii	Critical Inputs:	Mushroom spawn, Polythene
xiv	Unit Size:	10 beds/farm women
xv	No of Replications:	2
xvi	Unit Cost:	Rs.340
xvii	Total Cost:	Rs.2380
xviii	Monitoring Indicator:	Yield, BC ratio, Farmers' feedback
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	Farmer Innovation

On-farm trials 5 to be conducted

i	Season:	Kharif
ii	Title of the OFT:	Assessment of hydroponic fodder production for feeding in dairy farming.
iii	Thematic Area:	Feed management
iv	Problem diagnosed:	Less space available for green fodder
v	Important Cause:	Shrinkage of fodder area & lack of suitable technology for fodder production in small area
vi	Production system:	Dairy production system
vii	Micro farming system:	Homestead
viii	Technology for Testing:	Feeding of dry roughage + 1 kg maize grain of concentrate mixture will be replaced by 5-6 kg hydroponic maize fodder
Ix	Existing Practice:	Feeding of concentrate feed, dry roughage and locally available green fodder
x	Hypothesis:	Each 6 kg of green hydroponic fodder equivalent to 10 kg of green fodder and 1 kg concentrate feed
xi	Objective(s):	To provide green fodder throughout the year to dairy farmers for increasing quality and quantity of milk
xii	Treatments: Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II): and so on...	FP: Feeding of concentrate feed, dry roughage and locally available green fodder TO ₁ : Feeding of dry roughage + 1 kg wheat grain of concentrate mixture will be replaced by 5-6 kg hydroponic wheat fodder TO ₂ : Feeding of dry roughage + 1 kg maize grain of concentrate mixture will be replaced by 5-6 kg hydroponic

		maize fodder
xiii	Critical Inputs:	Seeds and tray
xiv	Unit Size:	1
xv	No of Replications:	2
xvi	Unit Cost:	Rs.920
xvii	Total Cost:	Approx.6440
xviii	Monitoring Indicator:	Cost of intervention, additional income over additional investment,(Rs/unit),Net Income, B:C ratio
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	TANUVAS 2015-16

On-farm trials 6 to be conducted

i	Season:	Round the year
ii	Title of the OFT:	Comparative assessment of poultry breeds in semi intensive backyard system
iii	Thematic Area:	
iv	Problem diagnosed:	Poor production and income from local non descript desi type chicken
v	Important Cause:	Poor performance of desi chickens both in terms of egg and meat
vi	Production system:	Poultry production
vii	Micro farming system:	Homestead/Backyard
viii	Technology for Testing:	Comparative assessment of poultry breeds in semi intensive backyard system
ix	Existing Practice:	Rearing of desi breed of chicken
x	Hypothesis:	Rearing of improved variety of chickens will provide nutritional security to rural farmers at cheaper rate
xi	Objective(s):	To provide sustainable livelihood support to rural farmers
xii	Treatments: Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II): and so on...	FP: Rearing of desi breed of chicken TO-I- Kadaknath birds body weight at 20 weeks 1170 gms, average annual egg production 190 TO-II- Pallishree birds body weight at 20 weeks 2500 gms, average annual egg production 110 TO-III- Kaveri birds body weight at 20 weeks 1900 gms, average annual egg production 140
xiii	Critical Inputs:	21 days old chicks
xiv	Unit Size:	10 nos of each variety
xv	No of Replications:	3
xvi	Unit Cost:	Rs.1800
xvii	Total Cost:	Rs.12600
xviii	Monitoring Indicator:	Cost of intervention, additional income over additional investment(Rs/unit),Net Return, B:C ratio
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	Jhabua, Madhya Pradesh, to be supplied by CPDO, Bhubaneswar,OUAT 2010, to be supplied by CPDO, Bhubaneswar

On-farm trials 7 to be conducted

i	Season:	Kharif 2019
ii	Title of the OFT:	Assessment of organic and inorganic fertilizer on the growth performance of IMC
iii	Thematic Area:	Production and management
iv	Problem diagnosed:	Poor production and low yield
v	Important Cause:	Low yield
vi	Production system:	Fish production
vii	Micro farming system:	Low land rainfed
viii	Technology for Testing:	Application of organic manure (cow dung)@10000kg/ha +Inorganic fertilizer(SSP)@200kg/ha, 1/5 th as basal dose,a week prior to stocking and the rest monthly application in equal installment.
Ix	Existing Practice:	Erratic use of organic fertilizer(cow dung)
x	Hypothesis:	TO-2
xi	Objective(s):	Enhancement of yield
xii	Treatments: Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II): and so on...	FP : Erratic use of organic fertilizer(cow dung) TO -1:Application of organic manure (cow dung)@12000kg/ha, 1/5 th as basal dose,a week prior to stocking and the rest monthly application in equal installment. TO-2 : :Application of organic manure (cow dung)@10000kg/ha +Inorganic fertilizer(SSP)@200kg/ha, 1/5 th as basal dose,a week prior to stocking and the rest monthly application in equal installment.
xiii	Critical Inputs:	Cow dung , SSP
xiv	Unit Size:	0.4ha
xv	No of Replications:	05
xvi	Unit Cost:	Rs 8500 /-
xvii	Total Cost:	Rs42000/-
xviii	Monitoring Indicator:	Plankton density , yield (q/ha)
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	Int.J of Agri&Biol.2009, pp 931-933

On-farm trials 8 to be conducted

i	Season:	Kharif 2019
ii	Title of the OFT:	Assessment of genetically improved strain of Jayanti rohu in composite fish culture for yield enhancement
iii	Thematic Area:	Production and management

iv	Problem diagnosed:	Slow growth rate of farm rohu reduces the fish yield
v	Important Cause:	Low yield
vi	Production system:	Fish production
vii	Micro farming system:	Low land pond based
viii	Technology for Testing:	Stocking ratio = 4:4:2 .
Ix	Existing Practice:	Stocking of grow-out ponds with catla : farmed rohu:mrigal fingerlings : :3000:4000:3000 nos per ha respectively.
x	Hypothesis:	Stocking ratio = 4:4:2
xi	Objective(s):	Enhancement of yield
xii	Treatments: Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II): and so on...	FP: Stocking of grow-out ponds with catla : farmed rohu:mrigal fingerlings : :3000:4000:3000 nos per ha respectively TO -1 :Stocking ratio = 3:4:3 TO – 2 : Stocking ratio = 4 :4:2
xiii	Critical Inputs:	Jayanti rohu seed,IMC Seed ,floating feed ,pond culture
xiv	Unit Size:	04ha
xv	No of Replications:	05
xvi	Unit Cost:	Rs11500/-
xvii	Total Cost:	Rs57500/
xviii	Monitoring Indicator:	Growth rate (%)
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	CIFA,Bhubaneswar.2005 www.cifa.nic.in

On-farm trials 9 to be conducted

i	Season:	Kharif 2019
ii	Title of the OFT:	Assessment of integrated pest management against serpentine leaf miner in <i>kharif</i> tomato
iii	Thematic Area:	IPM
iv	Problem diagnosed:	Suitable chemical control measure is not available
v	Important Cause:	Lack of knowledge on resistant variety
vi	Production system:	Vegetable production system
vii	Micro farming system:	Rainfed upland
viii	Technology for Testing:	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
Ix	Existing Practice:	Spraying of chloropyriphos @2 ml / litres of water.
x	Hypothesis:	Spinosad having noval mode of action, primarily targeting binding sites on nicotinic acetylcholine receptors of the insect nervous system
xi	Objective(s):	Prevention of outbreak of leaf miner disease in tomato

xii	Treatments: Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II): and so on...	FP - Spraying of chloropyriphos @2 ml / litres of water. TO ₁ - Abamectin 1.8EC is a broad spectrum insecticide/miticide.it acts by blocking transmission of signals between nerve cells or between nerve and muscle cell. Shortly after ingestion, the insects or mites become irreversibly paralysed and die within 3-4 days.it controls leaf miners by killing larvae in existing mines TO ₂ -Spinosad having noval mode of action , primarily targeting binding sites on nicotinic acetylcholine receptors of the insect nervous system
xiii	Critical Inputs:	Chemicals
xiv	Unit Size:	10
xv	No of Replications:	2
xvi	Unit Cost:	
xvii	Total Cost:	
xviii	Monitoring Indicator:	Yield (q/ha), Economics ,Cost of intervention. Additional income over additional investment (q/ha), B:C ratio,
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	Kerala Agriculture Univ., 2015

On-farm trials 10 to be conducted

i	Season:	Rabi, 2019-20
ii	Title of the OFT:	Assessment of water use efficient practices for yield enhancement of pulse (Green gram) crops in rice based cropping system in <i>rabi</i> season
iii	Thematic Area:	Micro Irrigation
iv	Problem diagnosed:	Low yield due to scarcity of water throughout the cropping season
v	Important Cause:	Scarcity of water at flowering stage
vi	Production system:	Rice - greengram
vii	Micro farming system:	Irrigated Medium land
viii	Technology for Testing:	Sprinkler irrigation at pre-flowering and pod formation stages
ix	Existing Practice:	No irrigation
x	Hypothesis:	Yield increases by 25%., Greater Plant height (25-30cm.)
xi	Objective(s):	To increase the water productivity of the crop
xii	Treatments: Farmers Practice (FP): Technology option-I (TO-I): Technology option-II (TO-II): and so on...	FP - No irrigation T O ₁ - Yield increases by 10-15%. T O ₂ - Yield increases by 25%., Greater Plant height (25-30cm.)
xiii	Critical Inputs:	Sprinkler riser
xiv	Unit Size:	7
xv	No of Replications:	2
xvi	Unit Cost:	
xvii	Total Cost:	
xviii	Monitoring Indicator:	Cost of intervention (Rs./ha), Additional income over additional investment (Rs/Rs), Yield (q/ha), B:C ratio,

xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	IIWM,2017
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10. List of Projects to be implemented by funding from other sources (other than KVK fund)

Sl. No.	Name of the project	Fund expected (Rs.)
1	Mission Shakti	1065000
2	ASCI	330400

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

- (a) Cultivation and distillation of aromatic plants
(b) Success story on precision agriculture

12. Scientific Advisory Committee

Date of SAC meeting held during 2018-19	Proposed date during 2019-2020
11.3.19	September 2019

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	257										35	1015
Water Samples												
Other (Please specify)												
Total	257										35	1015

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to 31.03.2019	Expected fund requirement (Rs. In lakh)
Pay and allowance		108.00
TA	80000	1.50
HRD		0.30
Contingencies	1100000	16.00
Adm. Building(1 st installment)		80.00
Total		205.80

* 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