

ACTION PLAN 2019-2020

1. Name of the KVK: Keonjhar, Odisha

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2.Name of host organization :

Address	Telephone		E-mail
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Odisha University of Agriculture & Technology, Bhubaneswar	0674-2397964	0674-2397780	registrar@ouat.nic.in

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

(a) Farmers and farm women

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						
AGRONOMY																				
Cultivation of crop	Improved production technology of Ragi	1	1	Off	2 nd week, June															25
Cultivation of crop	Improved production technology of	1	1	Off	3 rd week, June															25

	Maize																		
Weed management	Proper use of herbicides in Rice	1	1	Off	1 st week, July														25
Weed management	IWM in groundnut	1	1	Off	3 rd week, July														25
Weed management	IWM in Niger	1	1	Off	1 st week, August														25
INM	INM in Toria	1	1	Off	1 st week of , September														25
INM	Nutrient management of Rice-linseed Paira cropping	1	1	Off	3 rd week, September														25
Weed management	IWM in Sunflower	1	1	Off	1 st week of, October														25
Weed management	IWM in Sweet corn	1	1	Off	1 st week of, November														25
Cultivation of crop	Improved production technology of Chickpea	1	1	Off	1 st week of December														25
Crop diversification	Crop diversification in Upland situation	1	1	Off	1 st week, January														25
INM	INM in Green gram	1	1	Off	1 st week of February														25
HORTICULTURE																			
Nursery raising	Seedling raising of off-season vegetables	1	1	Off	1 st week of June														25
Offseason vegetable	Offseason cauliflower	1	1	Off	2 nd week of August														25

cultivation	cultivation																				
Exotic vegetables	Cultivation practices of exotic vegetables	1	1	Off	4 th week of August															25	
Export potential of ornamental plants	Cultivation practices of Marigold	1	1	Off	3 rd week of September																25
Export potential of ornamental plants	Cultivation practices of Tuberoses	1	1	Off	4 th week of September																25
Cultivation of vegetables	Cultivation practices of cole crops	1	1	Off	1 st week of October																25
Yield increment	Cultivation practices of Potato	1	1	Off	1 st week of November																25
Yield increment	Cultivation practices of Watermelon	1	1	Off	1 st week of December																25
Integrated Nutrient Management	Cultural practices in mango	1	1	Off	1 st week of January																25
Export potential vegetables	Cultivation practices of pointed gourd	1	1	Off	2 nd week of February																25
Water management	Cultivation practices of Yam	1	1	Off	2 nd week of March																25
PLANT PROTECTION																					
IPM	Different methods of seed treatment in crops	1	1	Off	2 nd week of June																25

IPM	IPM for management of insect and disease in tomato	1	1	Off	2 nd week of July													25
IPM	IPM for control of BPH in Rice	1	1	Off	3 rd week of August													25
IPM	IPM of pod borer complex in Pigeonpea	1	1	Off	2 nd week of September													25
IPM	IPM of thrips in Chilli	1	1	Off	4 th week of October													25
IPDM	IPDM of mite, flower rot, powdery mildew in marigold	1	1	Off	2 nd week of November													25
IDM	IDM of bulb rot in tuberose	1	1	Off	1 st week of December													25
IPM	IPM on mango hopper	1	1	Off	4 th week of December													25
IPM	IPM of fruit fly management in cucumber	1	1	Off	2 nd week of January													25
IDM	IDM of cercospora leaf spot in Okra	1	1	Off	4 th week of January													25
IDM	IDM of vine rot and fruit rot disease in pointed gourd	1	1	Off	1 st week of February													25
IPM	New generation insecticides for YMV management in Greengram	1	1	Off	4 th week of March													25
ANIMAL SCIENCE																		
Poultry management	Care and management of	1	1	Off	1 st week of June													25

	poultry birds for income generation																		
Livestock feed and fodder management	Multiplication and use of azolla for dairy and poultry	1	1	Off	2 nd week of June														25
Management in farm animals	Awareness about oestrus synchronization in goats	1	1	Off	1 st week of July														25
Poultry management	Duck rearing for sustainable livelihood	1	1	On	3 rd week of July														25
Dairy management	Scientific management of milch animals	1	1	On	2 nd week of August														25
Dairy management	By pass protein and fat for increase in livestock production	1	1	Off	3 rd week of September														25
Fish feed preparation	Low cost CIFA-Carp Grower Feed	1	1	Off	1 st week of October														25
Dairy management	Clean milk production	1	1	Off	4 th week of October														25
Livestock feed and fodder production	Hydroponic fodder production for feed supplementation	1	1	Off	2 nd week of November														25
Livestock feed and fodder production	Fodder preservation techniques	1	1	Off	3 rd week of November														25
Fingerling rearing	Different efficient feed serving methods for fishes	1	1	On	1 st week of December														25
Poultry management	Guinea fowl and turkey rearing for	1	1	On	3 rd week of December														25

	income generation																
AGRICULTURE ENGINEERING																	
Farm mechanization	Use of different puddling implements in Rice	1	1	Off	2 nd week, June												25
Farm mechanization	Use of different seed drills for oilseed	1	1	Off	3 rd Week, June												25
Farm mechanization	Mat type nursery preparation for transplanters in rice	1	1	Off	1 st week, July												25
Farm mechanization	Farm mechanization of different transplanters in rice	1	1	Off	3 rd Week, July												25
Farm mechanization	Weed management of rice by different weeders	1	1	Off	2 nd week, August												25
Farm mechanization	Care & safety measures during operation of farm implements	1	1	Off	1 st week, November												25
Farm mechanization	Implements use for ragi threshing	1	1	Off	2 nd week, December												25
RCT	Drip irrigation for vegetables	1	1	Off	3 rd week, January												25
Farm mechanization	Operation of Small tools and implements in vegetables	1	1	Off	2 nd week, February												25
Farm mechanization	Implements use for groundnut threshing	1	1	Off	3 rd week, February												25
Post harvest technology	Value addition of underutilized fruit	1	1	On	2 nd week, March												25

	crops																		
Farm mechanization	Use of primary tillage implements and their uses	1	1	Off	4 th week of March														25
SOIL SCIENCE																			
Soil fertility management	STBF application in Rice	1	1	Off	2 nd week of July														25
INM	INM in Black gram	1	1	Off	1 st week of September														25
INM	INM in Groundnut	1	1	Off	2 nd week of August														25
Production and use of organic inputs	Biofertilizer application in vegetables	1	1	Off	3 rd week of November														25
Production and use of organic inputs	Different composting techniques	1	1	Off	3 rd week of December														25
Soil fertility management	Soil sample collection method	1	1	Off	3 rd week of February														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					
AGRONOMY																			
Organic farming	Vermicompost Production	1	05 days	On	1 st week of December														05
Organic farming	Different methods of compost preparation	1	02 days	On	1 st week of October														15
HORTICULTURE																			
Plant propagation techniques	Gooty preparation in Guava	1	2 days	On	4 th week of July														15

Plant propagation techniques	Nursery management of Fruit crops	1	5 days	On	1 st week of November												05
PLANT PROTECTION																	
Bee keeping	Apiary as source of livelihood of tribal farmers	1	5 days	On	1 st week of September												05
Production of biopesticides	Preparation of bio pesticides from different leaf extracts	1	2 days	On	3 rd week of December												15
ANIMAL SCIENCE																	
Poultry production	Artificial brooding of chicks for income generation	1	2 days	On	2 nd week of July												15
Poultry production	Scientific management of poultry	1	4 days	On	1 st week of January												5
AGRICULTURE ENGINEERING																	
Farm machinery	Repair and maintenance of sprayer and dusters	1	2days	On	4 th week of October												15
Farm mechanization	Repair and maintenance of Power tiller	1	4 days	On	1 st week of January												05
AGRICULTURE EXTENSION																	
Income generation	Income generation through Entrepreneurship development	1	2 days	On	2 nd week of July												15
Income generation	Income generation through understanding of marketing strategy and channel	1	2 days	On	3 rd week of August												15
Capacity building	IFS approach in Agriculture	1	2 days	On	2 nd week of September												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						
AGRONOMY																				
Weed management	New herbicide molecules and their use in Rice	01	01	On	3 rd week of June															10
HORTICULTURE																				
Protective cultivation	Protected cultivation of vegetable crops	01	01	On	1 st week of October															10
PLANT PROTECTION																				
Integrated pest management	Recent advances in IPM in vegetable crops	01	01	On	3 rd week of February															10
ANIMAL SCIENCE																				
Disease management	First aid and disease management of cattle and small ruminants	01	01	On	3 rd week of June															10
AGRICULTURE ENGINEERING																				
Farm mechanization	Use and maintenance of micro irrigation system	01	01	On	1 st week of January															10
AGRICULTURE EXTENSION																				
Capacity building	Prepare and production of quality audio-visual material for dissemination of technology	01	01	On	4th week of January															10
Capacity building for ICT	Management for effective dissemination of latest technology	01	01	On	1 st week of February															10

Capacity building	Process documentation in agriculture	01	01	On	4th week of February														10
Capacity building for ICT	Application of ICT in agriculture	01	01	On	1 st week of March														10

Abstract of Training: Consolidated table (ON and Off)

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	5																		125
Resource Conservation Technologies																			
Cropping Systems																			
Crop Diversification	1																		25
Integrated Farming																			
Water management																			
Seed production																			
Nursery management																			
Integrated Crop Management	3																		75
Fodder production																			
Production of organic inputs																			
Others, (cultivation of crops)	3																		75
TOTAL	12																		300
II. Horticulture																			
a) Vegetable Crops																			
Integrated nutrient management																			
Water management																			
Enterprise development																			
Skill development																			
Yield increment	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				
Production of low volume and high value crops														
Off-season vegetables	1													25
Nursery raising	1													25
Exotic vegetables like Broccoli	1													25
Export potential vegetables	1													25
Grading and standardization														
Protective cultivation (Green Houses, Shade Net etc.)														
Others, if any (Cultivation of Vegetable)	1													25
TOTAL	6													150
b) Fruits														
Training and Pruning														
Layout and Management of Orchards														
Cultivation of Fruit	1													25
Management of young plants/orchards														
Rejuvenation of old orchards														
Export potential fruits														
Micro irrigation systems of orchards														
Plant propagation techniques														
Others, if any(INM)	1													25
TOTAL	2													50
c) Ornamental Plants														
Nursery Management														
Management of potted plants														
Export potential of ornamental plants	2													50
Propagation techniques of Ornamental Plants														
Others, if any														
TOTAL	2													50
d) Plantation crops														
Production and Management technology														
Processing and value addition														
Others, if any														

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
TOTAL														
e) Tuber crops														
Production and Management technology														
Processing and value addition														
Others, if any	1													25
TOTAL	1													25
f) Spices														
Production and Management technology														
Processing and value addition														
Others, if any														
TOTAL														
g) Medicinal and Aromatic Plants														
Nursery management														
Production and management technology														
Post harvest technology and value addition														
Others, if any														
TOTAL														
III. Soil Health and Fertility Management														
Soil fertility management	2													50
Soil and Water Conservation														
Integrated Nutrient Management	2													50
Production and use of organic inputs	2													50
Management of Problematic soils														
Micro nutrient deficiency in crops														
Nutrient Use Efficiency														
Soil and Water Testing														
Others, if any														
TOTAL	6													150
IV. Livestock Production and Management														
Dairy Management	3													75
Poultry Management	3													75

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				
Piggery Management	-													
Rabbit Management	-													
Disease Management														
Feed management	3													75
Production of quality animal products														
Others, if any (Goat farming)	1													25
TOTAL	10													250
V. Home Science/Women empowerment														
Household food security by kitchen gardening and nutrition gardening														
Design and development of low/minimum cost diet														
Designing and development for high nutrient efficiency diet														
Minimization of nutrient loss in processing														
Gender mainstreaming through SHGs														
Storage loss minimization techniques														
Enterprise development														
Value addition														
Income generation activities for empowerment of rural Women														
Location specific drudgery reduction technologies														
Rural Crafts														
Capacity building														
Women and child care														
Others, if any														
TOTAL														
VI. Agril. Engineering														
Installation and maintenance of micro irrigation systems	1													25
Use of Plastics in farming practices														
Production of small tools and implements														
Repair and maintenance of farm machinery and implements														

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				
Small scale processing and value addition	1													25
Post Harvest Technology														
Others, if any	10													250
TOTAL	12													300
VII. Plant Protection														
Integrated Pest Management	8													200
Integrated Disease Management	4													100
Bio-control of pests and diseases														
Production of bio control agents and bio pesticides														
Others, if any														
TOTAL	12													300
VIII. Fisheries														
Integrated fish farming														
Carp breeding and hatchery management														
Carp fry and fingerling rearing	1													25
Composite fish culture & fish disease														
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	2													50
IX. Production of Inputs at site														
Seed Production														
Planting material production														

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			
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
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	1														05
Integrated farming															
Seed production															
Production of organic inputs	2														30
Planting material production	2														20
Vermi-culture	1														05
Sericulture															
Protected cultivation of vegetable crops															
Commercial fruit production															
Repair and maintenance of farm machinery and implements	2														20
Nursery Management of Horticulture crops															
Training and pruning of orchards															
Value addition															
Production of quality animal products															
Dairying															
Sheep and goat rearing															
Quail farming															
Piggery															
Rabbit farming															
Poultry production	2														20
Ornamental fisheries															
Para vets															
Para extension workers															
Composite fish culture															
Freshwater prawn culture															
Shrimp farming															
Pearl culture															
Cold water fisheries															
Fish harvest and processing technology															
Fry and fingerling rearing															
Small scale processing															

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				
Post Harvest Technology														
Tailoring and Stitching														
Rural Crafts														
Enterprise development	2													30
Others if any (ICT application in agriculture)	1													15
TOTAL	13													145

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	1													10
Integrated Pest Management	1													10
Integrated Nutrient management														
Rejuvenation of old orchards														
Value addition														
Protected cultivation technology	1													10
Formation and Management of SHGs														
Group Dynamics and farmers organization														
Information networking among farmers														
Capacity building for ICT application	4													40
Care and maintenance of farm machinery and implements														
WTO and IPR issues														
Management in farm animals	1													10
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	1													10
TOTAL	9													90

Crop: Ragi

Thrust Area: Varietal substitution in field crops for yield increase

Thematic Area: Integrated crop management

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	Local	SC		ST		Other		Total				
								M	F	M	F	M	F	M	F	T		
2.	Ragi var. Arjun	2	Demonstration of Ragi var. Arjun	No of tillers/plant , Plant height (cm)	Ragi var. Arjun													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				
Field day	Demonstration on Ragi var. Arjun	1	Extension functionaries, Scientists, Farmers	1	Off													50
Training	Improved production technology of Ragi	1	F/FW	1	Off													25

	management of insect and disease in tomato																	
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Crop: Okra

Thrust Area: Promotion of specific pesticides for disease management

Thematic Area: Integrated pest management

Season: Rabi, 2019-20

Farming Situation: Irrigated medium land (Rice - vegetable)

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			
10.	Okra	1.0	Three spraying of Tebuconazole 50% + Trifloxystrobin 25% @ 0.1% or Difenconazole 25% EC@ 0.1% at 10 days interval after initiation of disease	No. of affected leaves/plant, % of disease infestation	Tebuconazole, Trifloxystrobin, Difenconazole														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					
Field day	Demonstration on IDM against cercospora leaf spot in Okra	1	Extension functionaries, Scientists, Farmers	1	Off														50

Training	IDM of Cercospora leaf spot in Okra	1	F/FW	1	Off													25
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Crop: Mango

Thrust Area: Promoting specific practices for pest management

Thematic Area: Management of orchards

Season: Rabi, 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	Local	SC		ST		Other		Total					
								M	F	M	F	M	F	M	F	T			
11	Mango	1.0	Four sprays of Metarhizium anisopliae oil formulation @ 0.5ml/L at weekly interval	No. of hoppers/ twig	Metarhizium anisopliae oil														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					
Field day	Demonstration on biological control of mango inflorescence hoppers	1	Extension functionaries, Scientists, Farmers	1	Off														50
Training	IPM on mango hoppers	1	F/FW	1	Off														25

Training		1	F/FW	1	Off														25
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Crop: Groundnut

Thrust Area: promotion of technologies for increase in yield and quality of crops

Thematic Area: Secondary and micro nutrient deficiency in crops

Season: Rabi, 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	Local	SC		ST		Other		Total						
								M	F	M	F	M	F	M	F	T				
14	Groundnut	2.0	Sulphur @30kg/ha at the time of sowing+ two foliar spray of Boron 0.2% at flowering and 20 days after flowering stage with STBF.	No. of pod/plant, No. of kernels/pod	Sulphur, Boron															10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								Total							
						SC		ST		Other		Total									
						M	F	M	F	M	F	M	F		T						
Field day	Demonstration on Sulphur and Boron application in groundnut	1	Extension functionaries, Scientists, Farmers	1	Off																50
Training	Integrated nutrient management	1	FM/W	1	Off																25

Training	Fodder preservation techniques	1	F/FW	1	Off													25
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Commodity: Backyard poultry

Thrust Area: Economic empowerment of farm women

Thematic Area: Poultry production

Season: Round the year 2019-20

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			
18	Backyard poultry	10	Kadakhnath rearing: body weight at 20 weeks: 1170g; Annual egg production: 190, production parameters show tolerance to acute stress condition.	Body weight at 1 month, 2 month, 4 month and at start of laying, egg production/ annum	Kadakhnath chicks (21 days old)														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					
Field day	Demonstration on poultry breed Kadakhnath in backyard	1	Extension functionaries, Scientists, Farmers	1	Off														50
Rural	Scientific	1	Rural youth	2	On														15

Training	Use of different seed drills for oilseed	1	F/FW	1	Off													25
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Commodity: Ragi

Thrust Area: Promoting of Post harvest losses

Thematic Area: Farm Mechanization

Season: Kharif, 2019

Farming Situation: Rainfed upland

Sl. No.	Crop & variety / Enterprise	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			
21	Ragi	2	This machine can be operated by 1.0 hp electric motor as well as by a pair of bullocks in rotary system	Output: kg/h Threshing efficiency: % Cleaning efficiency: % Cost of operation: Rs. /kg	Ragi thresher cum pearler														10

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						
Field day	Demonstration on Ragi thresher cum	1	Extension functionaries, Scientists,	1	Off														50

	products from Jackfruit													
Training	Value addition of underutilized fruit crops	1	F/FW	1	Off									25

5. 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	Sahabthagidhan	July to November	2 ha	Seed	40			
Sunhemp	Local		1ha		5			
Vegetable seedlings								
Tomato	Laxmi			Seedling	30000		30000	9000
Brinjal	Mahy green			Seedling	30000		30000	9000
Chilli	Shyam hot			Seedling	5000		5000	1000
Capsicum	California wonder			Seedling	2000		2000	600
Cabbage	Indam Krishna			Seedling	5000		5000	1000
Cauliflower	Megha			Seedling	5000		5000	1000
Broccoli	Green Magic			Seedling	3000		3000	900
Onion	Indam Gulab			Seedling	10000		10000	2000
Marigold seedlings/ cuttings	Ceracola			Seedling	5000		5000	1000
Papaya seedlings	Red Lady			Seedling	1000		20,000	4000
Poultrychicks	Kadaknath, Kruoiler, Aseel			Chicks	5000		3,40,000	1,02,000

Vermin				Vermin	10 kg		5000	1500
Vermicompost				Vermicompost	10q		5000	1500
Mushroom spawn	Paddystraw, Oyster			Mushroom spawn	1000		15000	4,500

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.)
Blackgram	PU-31	July-October	30	17	C/S	150			
Pigeonpea	PRG-176	July-January	20	22	C/S	160			
Chickpea	Ujjawal	November-March	20	15	C/S	150			

6. Extension Activities

Sl. No.	Activities/ Sub-activities	No. of activities proposed	Farmers				Extension Officials			Total		
			M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day	22										1100
2.	KisanMela	1										500
3.	KisanGhosthi											
4.	Exhibition	3										Mass
5.	Film Show	8										Mass

4. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
Farmers Scientist interaction	ATMA, Keonjhar	0.40
Centre of Excellence	RKVY	128.00
Capacity building of women SHG	Mission Shakti, Govt. of Odisha	10.65

8. On-farm trials to be conducted*

OFT-1

i.	Season	:	Kharif, 2019
ii.	Title of the OFT	:	Assessment of Cuscuta management in Niger
iii.	Thematic Area:	:	Integrated weed management
iv.	Problem diagnosed	:	Low yield of Niger due to infestation of Cuscuta and other weeds
v.	Important Cause	:	Low yield of Niger
vi.	Production system	:	Niger fallow
vii.	Micro farming system	:	Rainfed Upland
viii.	Technology for Testing	:	Niger
ix.	Existing Practice	:	No Weed management
x.	Hypothesis	:	20-30% increase in yield
xi.	Objective(s):	:	Increase in productivity
xii.	Treatments	:	
	Farmers Practice (FP)	:	No Weed management
	Technology option-I (TO-I)	:	Pendimethalin @3 ltr/ha as pre-emergence
	Technology option-II (TO-II): and so on...	:	Stale seed bed followed by pendimethalin @3 ltr/ha as pre-emergence

xiii.	Critical Inputs	:	Pendimethalin
xiv.	Unit Size	:	2 ha
xv.	No of Replications	:	7
xvi.	Unit Cost	:	
xvii.	Total Cost	:	
viii.	Monitoring Indicator	:	Yield(q/ha), Net income, B:C ratio
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	Annual report of AICRP on Weed Management, Jabalpur, 2016-17

OFT-2

i.	Season	:	Rabi, 2019-20
ii.	Title of the OFT	:	Assessment of foliar application of nutrients in Black gram
iii.	Thematic Area:	:	Integrated nutrient management
iv.	Problem diagnosed	:	Low yield of Black gram due to poor nutrient supplement
v.	Important Cause	:	Low yield
vi.	Production system	:	Rice- Black gram
vii.	Micro farming system	:	Rainfed Upland
viii.	Technology for Testing	:	Blackgram
ix.	Existing Practice	:	Application of DAP 50 kg/ha
x.	Hypothesis	:	20-30% increase in yield
xi.	Objective(s):	:	Increase in yield
xii.	Treatments	:	
	Farmers Practice (FP)	:	Application of DAP 50 kg/ha
	Technology option-I (TO-I)	:	Foliar application of 2% DAP
	Technology option-II (TO-II): and so on...	:	Foliar application of 19:19:19 (NPK) @ 2%
xiii.	Critical Inputs	:	DAP and NPK complex fertilizer
xiv.	Unit Size	:	2 ha
xv.	No of Replications	:	7

xvi.	Unit Cost	:	
xvii.	Total Cost	:	
xviii.	Monitoring Indicator	:	Yield(q/ha), Net income, B:C ratio
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	AICRP on MULLaRP, Sehore (MP)2015

OFT-3

i.	Season	:	Kharif, 2019
ii.	Title of the OFT	:	Assessment of triple resistant tomato varieties in late Kharif season
iii.	Thematic Area:	:	Varietal evaluation
iv.	Problem diagnosed	:	Infestation of bacterial wilt, early leaf blight and tomato leaf curl virus
v.	Important Cause	:	Bacterial wilt
vi.	Production system	:	Vegetable production system
vii.	Micro farming system	:	Rainfed Upland
viii.	Technology for Testing	:	Tomato
ix.	Existing Practice	:	Cultivation of tomato var. Laxmi
x.	Hypothesis	:	20-30% increase in yield and less disease incidence
xi.	Objective(s):	:	Increase in Yield
xii.	Treatments	:	
	Farmers Practice (FP)	:	Cultivation of tomato var. Laxmi
	Technology option-I (TO-I)	:	Cultivation of tomato var. Arka Samrat
	Technology option-II (TO-II): and so on...	:	Cultivation of tomato var. Arka Rakshak
xiii.	Critical Inputs	:	
xiv.	Unit Size	:	

xv.	No of Replications	:	7
xvi.	Unit Cost	:	
xvii.	Total Cost	:	
xviii.	Monitoring Indicator	:	Yield(q/ha), Net income, B:C ratio
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	ICAR-IIHR, 2014

OFT-4

i.	Season	:	Rabi, 2019-20
ii.	Title of the OFT	:	Assessment of growth regulators to control irregular bearing habit in mango
iii.	Thematic Area:	:	Integrated crop management
iv.	Problem diagnosed	:	Alternate bearing in mango orchard
v.	Important Cause	:	Alternate bearing varieties causes yield loss
vi.	Production system	:	Fruit production system
vii.	Micro farming system	:	Rabi, irrigated upland
viii.	Technology for Testing	:	Mango
ix.	Existing Practice	:	Use of FYM only with watering
x.	Hypothesis	:	20-30% increase in yield
xi.	Objective(s):	:	To regularize the bearing tendencies of irregular bearers
xii.	Treatments	:	
	Farmers Practice (FP)	:	Use of FYM only with watering
	Technology option-I (TO-I)	:	Application of ethephon 5-8 sprays @200ppm fortnightly interval
	Technology option-II (TO-II): and so on...	:	Application of Paclobutrazol@ 0.25g a.i./m ² Canopy spread
xiii.	Critical Inputs	:	
xiv.	Unit Size	:	
xv.	No of Replications	:	7
xvi.	Unit Cost	:	
xvii.	Total Cost	:	
xviii.	Monitoring Indicator	:	Yield(q/ha), Net income, B:C ratio
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	IIHR, Annual Reports 2016-2017 ,Developed by CHES Bhubaneswar (2010)

OFT-5

i.	Season	:	Kharif, 2019
ii.	Title of the OFT	:	Assessment of BPH tolerant rice varieties
iii.	Thematic Area:	:	Integrated Pest Management
iv.	Problem diagnosed	:	Low yield due to BPH in rice
v.	Important Cause	:	Control of BPH incidence
vi.	Production system	:	Rice production system
vii.	Micro farming system	:	Medium land Irrigated , rice-pulse cropping system
viii.	Technology for Testing	:	Rice
ix.	Existing Practice	:	Cultivation of rice variety Swarna
x.	Hypothesis	:	30-40% increase in yield by lowering BPH incidence
xi.	Objective(s):	:	Increase the yield
xii.	Treatments	:	
	Farmers Practice (FP)	:	Cultivation of rice variety Swarna
	Technology option-I (TO-I)	:	Cultivation of BPH tolerant rice variety Hasanta
	Technology option-II (TO-II): and so on...	:	Cultivation of BPH tolerant rice variety Pratikshya
xiii.	Critical Inputs	:	
xiv.	Unit Size	:	2 ha
xv.	No of Replications	:	7
xvi.	Unit Cost	:	
xvii.	Total Cost	:	
xviii.	Monitoring Indicator	:	Cost of intervention, additional income over additional investment yield (q/ha), B:C ratio
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	AICRP on Rice, Chipilima, 2015, NRRI, Cuttack, Odisha, 2002

OFT-6

i.	Season	:	Rabi, 2019-20
ii.	Title of the OFT	:	Assessment of IPM practices for management of leaf curl in chilli
iii.	Thematic Area:	:	Integrated Pest Mangement
iv.	Problem diagnosed	:	Low yield of Chilli due to thrips infestation
v.	Important Cause	:	Chilli thrips
vi.	Production system	:	Vegetable production system
vii.	Micro farming system	:	Up land Irrigated, veg-veg cropping system
viii.	Technology for Testing	:	Chilli
ix.	Existing Practice	:	Spraying of Imidachloprid 17.8 SL @4 ml/10 Lit of water
x.	Hypothesis	:	20-30% increase in yield
xi.	Objective(s):	:	Lowering the incidence of chilli thrips and therefore increase in yield
xii.	Treatments	:	
	Farmers Practice (FP)	:	Spraying of Imidachloprid 17.8 SL @4 ml/10 Lit of water
	Technology option-I (TO-I)	:	Sipromesifen 22.9%SC @ 500ml/ha
	Technology option-II (TO-II): and so on...	:	Rotaional spray of Acephate@ 1.5g/l+Neem oil@2ml/l, Fifronil@1ml/l+ Neem oil@2ml/l, Imidachloprid@2g/15 lt+neem oil @2ml/lt , Cyazypyr @ 1.8ml/l at weekly interval
xiii.	Critical Inputs	:	
xiv.	Unit Size	:	
xv.	No of Replications	:	7
xvi.	Unit Cost	:	
xvii.	Total Cost	:	
xviii.	Monitoring Indicator	:	Yield(q/ha), Net income, B:C ratio, Farmers feed back
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	RRTTS, Bhubaneswar, 2016 AICRP Vegetable crops, Bhubaneswar, 2016

OFT-7

i.	Season	:	Rabi, 2019-20
ii.	Title of the OFT	:	Assessment of supplementary feeding of hydroponics fodders for dairy animals
iii.	Thematic Area:	:	Feed management
iv.	Problem diagnosed	:	Low fodder cultivation, more space requirement for green fodder, High feed cost/kg of milk production in cows
v.	Important Cause	:	Lack of green fodder cultivation due to water and land scarcity
vi.	Production system	:	Milk production
vii.	Micro farming system	:	Homestead
viii.	Technology for Testing	:	Dairy
ix.	Existing Practice	:	Feeding of paddy straw and concentrate feed and no supplementation of green fodder
x.	Hypothesis	:	Increases milk production 25-35% as well as fat and SNF concentration 0.5-1.5% and decreases the incidence of anestrus from 15-20%
xi.	Objective(s):	:	Increase in Milk yield and quality along with decrease in anestrus incidence
xii.	Treatments	:	
	Farmers Practice (FP)	:	Feeding of paddy straw and concentrate feed and no supplementation of green fodder
	Technology option-I (TO-I)	:	Feeding of paddy straw + concentrate feed + hydroponic fodder (cereal based)-maize @ 10kg/day after growing for 10 days
	Technology option-II (TO-II): and so on...	:	Feeding of paddy straw + hydroponic fodder maize + legume- horse gram @ 10kg/day after growing for 10 days
xiii.	Critical Inputs	:	
xiv.	Unit Size	:	
xv.	No of Replications	:	7
xvi.	Unit Cost	:	
xvii.	Total Cost	:	
xviii.	Monitoring Indicator	:	Net income, B:C ratio
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	Tamil Nadu Veterinary and Animal Sciences University, 2015-16

OFT-8

i.	Season	:	Round the year, 2019-20
ii.	Title of the OFT	:	Assessment of different teat dips for prevention of mastitis in dairy animals
iii.	Thematic Area:	:	Disease management
iv.	Problem diagnosed	:	Increase incidence of mastitis due various unhygienic practices during milking
v.	Important Cause	:	Mastitis causes increase in morbidity in dairy animals
vi.	Production system	:	Milk production
vii.	Micro farming system	:	Homestead
viii.	Technology for Testing	:	Dairy
ix.	Existing Practice	:	No control measures adopted
x.	Hypothesis	:	Decreases incidence of mastitis from 20- 30%
xi.	Objective(s):	:	Decrease in incidence of mastitis
xii.	Treatments	:	
	Farmers Practice (FP)	:	No control measures adopted
	Technology option-I (TO-I)	:	Iodine (0.5%) solution+ Glycerine @15% of Iodine solution
	Technology option-II (TO-II): and so on...	:	KMnO ₄ (3%) solution
xiii.	Critical Inputs	:	
xiv.	Unit Size	:	
xv.	No of Replications	:	7
xvi.	Unit Cost	:	
xvii.	Total Cost	:	
xviii.	Monitoring Indicator	:	Cost of intervention, additional income over additional investment, B:C ratio
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	Annual report NDRI,2015 Annual report TANUVAS, 2016

OFT-9

i.	Season	:	Kharif, 2019
ii.	Title of the OFT	:	Assessment of mechanical rice transplanter
iii.	Thematic Area:	:	Farm Mechanization
iv.	Problem diagnosed	:	High cost in manual transplanting
v.	Important Cause	:	High cost, Labour Scarcity, Drudgery reduction
vi.	Production system	:	Rice production system
vii.	Micro farming system	:	Homestead
viii.	Technology for Testing	:	Rice
ix.	Existing Practice	:	Manually transplanted
x.	Hypothesis	:	20-30% reduction in investment cost and drudgery
xi.	Objective(s):	:	Saving of cost and drudgery reduction
xii.	Treatments	:	
	Farmers Practice (FP)	:	Manually transplanted
	Technology option-I (TO-I)	:	Transplanting by 4 row walk behind mechanical transplanter
	Technology option-II (TO-II): and so on...	:	Transplanting by 8 row riding type mechanical transplanter
xiii.	Critical Inputs	:	
xiv.	Unit Size	:	2ha
xv.	No of Replications	:	7
xvi.	Unit Cost	:	
xvii.	Total Cost	:	
xviii.	Monitoring Indicator	:	Cost of intervention. Yield (q/ha), B:C ratio
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	AICRP on FIM,CAET,OUAT

OFT-10

i.	Season	:	Rabi, 2019-20
ii.	Title of the OFT	:	Assessment of performance of groundnut threshers
iii.	Thematic Area:	:	Farm mechanization
iv.	Problem diagnosed	:	More labour requirement, No suitable labour saving threshing technology available
v.	Important Cause	:	More labour requirement and more time consuming for threshing.
vi.	Production system	:	Groundnut production system
vii.	Micro farming system	:	Rain fed upland
viii.	Technology for Testing	:	Groundnut
ix.	Existing Practice	:	Manual threshing
x.	Hypothesis	:	35-45% Reduction in post harvest losses
xi.	Objective(s):	:	Prevent post harvest losses
xii.	Treatments	:	
	Farmers Practice (FP)	:	Manual threshing
	Technology option-I (TO-I)	:	Power operated groundnut thresher
	Technology option-II (TO-II): and so on...	:	Tractor operated groundnut thresher
xiii.	Critical Inputs	:	
xiv.	Unit Size	:	
xv.	No of Replications	:	7
xvi.	Unit Cost	:	
xvii.	Total Cost	:	
xviii.	Monitoring Indicator	:	Cost of threshing, (Rs/q) Cost saving (%) Net return, B:C ratio, Farmers feed back
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	AICRP on FIM,CAET,OUAT,2015-16

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	Farmers Scientist interaction	0.40
2	Centre of Excellence	128.00
3	Capacity building of women SHG	10.65

11. No. of success stories proposed to be developed with their tentative titles: 2 (IFS for sustainable livelihood and Successful Mushroom Grower)

12. Scientific Advisory Committee

Date of SAC meeting held during 2018-19	Proposed date during 2019-2020
12.03.2019	18.09.2019

13. Soil and water testing

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC to be distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	200										15	1000
Water Samples												
Other (Please specify)												
Total	200										15	1000

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to 31.03.2019	Expected fund requirement (Rs.)
Total		

* Any additional requirement may be suitably justified.

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