ACTION PLAN 2019-2020, KVK, GANJAM-II

1. Name of the KVK: KVK,Ganjam-II

Address	Telephone		E mail
Krishi Vigyan Kendra, Ganjam-II At: Golanthara; **P.O: Golanthara; Berhampur; Dist: Ganjam;** **Odisha – 761008**	**09937789325**		kvkganjam2.ouat@gmail.com **kvkganjam2@yahoo.com**

2.Name of host organization :

Address	Telephone		E mail
	Office	**FAX**	
Orissa University of Agriculture and Technology **Bhubaneswar -751003** **Orissa**			

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
Crop production	Nursery management in Rice	1	1	Off	19.06.19									25
Crop production	SRI Syatem of Rice cultivation	1	1	Off	26.06.19									25
Crop production	Integrated weed manmagement in rice	1	1	Off	17.07.19									25
Crop production	Improved package of practice of ragi	1	1	Off	19.06.19									25
Crop production	Weed management in maize	1	1	Off	8.08.19									25
Crop production	Maize pulse intercropping	1	1	Off	23.08.19									25
Crop production	Improved package of practice of pulse crop	1	1	Off	11.09.19									25
Crop production	package of practice of pulse crop	1	1	Off	13.10.19									25
Crop production	Integrated weed management in groundnut	1	1	Off	25.10.19									25
Crop production	Improved package of practice of sunflower	1	1	Off	11.11.19									25
Crop production	Integrated weed management in greengram/blackgram	1	1	Off	27.11.19									25
Crop production	Improved package of practice of	1	1	Off	9.12.19									25
Crop production	fodder crops Improved package of	1	1	Off	9.2.20									25

	practice of sesame													
Production and Management technology	Cultivation of tuber crops	1	1 day	off	27.6.19									25
Yield increment	Training on scientific cultivation of cowpea and bean	1	1 day	off	5.7.19									25
Rejuvenation of old orchards	Training on canopy management and rejuvenation of old orchard	1	1 day	off	26.7.19									25
Export potential vegetables	Training on agro techniques in pointed gourd, bitter gourd	1	1 day	off	7.8.19									25
Off-season vegetables	Cultivation of off season vegetable	1	1 day	off	28.8.19									25
Export potential vegetables	Scientific cultivation of capsicum	1	1 day	off	11.9.19									25
Yield increment	Training on improved package and practices of beetle vine	1	1 day	off	27.9.19									25
Export potential of ornamental plants	Training on agrotechniques in Marigold,tuberose	1	1 day	off	3.10.19									25
Production of low volume and high value crops	Cultivation of, broccoli,red cabbage	1	1 day	off	17.10.19									25
Propagation techniques of Ornamental Plants	Taraining on agrotechiques of kewda cultivation	1	1 day	off	14.11.19									25
Export potential fruits	Cultivation of mango,guava	1	1 day	off	29.11.19									25
Export potential vegetables	Training on improve package of practices in Tomato,brinjal,chilli	1	1 day	off	5.12.19									25
Soil fertility management	training on Soil fertility management	2	1 day	off	29.6.19									50
Integrated Nutrient Management	training on INM in oilseed crops	1	1 day	off	21.7.19									25
Production and use of organic inputs	Training on Role and use of biofertilisers in vegetables	1	1 day	off	31.7.19.									25
Integrated Nutrient	Training on INM in flower cultivation	1	1 day	off	17.8.19.									25

Management														
Integrated Nutrient Management	Training on INM in millets	1	1 day	off	30.8.19									25
Use of micronutrient	Training on role and use of secondary and micronutrients in hybrid maize	1	1 day	off	13.9.19									25
Nutrient Use Efficiency	Training on nutrient management in rice	1	1 day	off	11.10.19									25
Soil testing	training on importance of soil testing and technique of soil sampling.	2	1 day	off	30.10.19 05.11.19									50
Production and use of organic inputs	training on Production and use of organic inputs	2	1 day	off	22.11.19 30.11.19									50
IPM	BPH management Rice	1	1 day	off	5.7.19									25
IDM	Disease management in ragi	1	1 day	off	25.7.19									25
IPM	IPM in Maize	1	1 day	off	8.8.19									25
IDM	Disease management Groun nut	1	1 day	off	30.8.19									25
IDM	Disease management in sunflower	1	1 day	off	05.0919									25
IDM	Disease management in tomato	1	1 day	off	21.9.19									25
IDM	Disease management in brinjal	1	1 day	off	3.10.19									25
IDM	Disease management in chilli	1	1 day	off	17.10.19									25
IPM	IPM in Cowpea	1	1 day	off	14.11.19									25
IDM	Disease management in pointed gourd	1	1 day	off	22.11.19									25
IPM	IPM in Marigold	1	1 day	off	06.11.19									25
IPM	IPM in Mango	1	1 day	off	27.12.19									25
Production and management	Culture practices in community pond	01	1 day	Off	18.07.2019									25
Production and management	Feed Formulation and feeding management	01	1 day	Off	24.10.2019									25
Production and management	Plankton Management in Grow-out pond culture	01	1 day	Off	31.10.2019									25
Production and management	Use of feed additives in carp culture	01	1 day	Off	24.09.2019									25
Production and management	Control and eradication of algal blooms and weeds in fish culture	01	1 day	Off	20.11.2019									25
Production and management	Importance of soil and water quality parameters in fish production	01	1 day	Off	24.06.2019									25

IFS	Pond based IFS	01	1 day	Off	06.08.2019									25
Production and management	Species diversification in Aquaculture and its Importance	01	1 day	Off	12.02.2019									25
Production and management	Disease diagnosis, treatment and control measures	01	1 day	Off	23.10.2019									25
Production and management	Fish seed conditioning and transportation	01	1 day	Off	29.06.2019									25
Production and management	Production and management of Natural food in Nursery Pond	01	1 day	Off	20.06.2019									25
Post-harvest management	Value addition and value added products from fish and shell fish	01	1day	Off	17.12.2019									50

(b) Rural youths

Thematic area	**Title of Training**	**No.**	**Duration**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
Crop production	Sustainable sugarcane initiative: producing more with less	1	2	Off	14.12.19& 15.12.19									15
Crop production	Irrigation management in field crops	1	2	Off	7.01.20 &8.01.20									15
Crop production	Brown manuring: an effective technique for yield sustainability and weed management of cereal crops	1	2	Off	23.07.19 &24.07.19									15
Crop production	Climate change and its impact on agriculture	1	2	Off	12.02.20&13.02.20									15
Nursery Management of Horticulture crops	Nursery management	1	2day	on	16.8.19 17.8.19									15
Commercial flower production	Cultivation of rose, gladioli	1	2day	on	7.11.19 8.11.19									15
Commercial fruit production	Scientific cultivation of banana	1	2day	on	12.12.19 13.12.19									15
Protected cultivation of vegetable crops	Protected cultivation of vegetable crops	1	2day	on	2.1.20 3.1.20									15
Production and use of organic inputs	training on vermiculture and vermicomposting	2	4 DAY	On	6.8.19 7.8.19 15.10.19 16.10.19									30
Production and use of	Training on production of organic	2	4 day	On	11.9.19 12.9.19									30

organic inputs	inputs				17.10.19 18.10.19									
IDM	IDM in Lemon	2	4 DAY	On	8.8.19 9.8.19 17.10.19 18.10.19									
IDM	IDM in groundnut	2	4 day	On	04.9.19 05.9.19 25.10.19 26.10.19									
Production & management	Ornamental fish culture as an Income generating activity	01	02 day	Off	12.12.2019 & 13.12.2019									15
Production & management	Package and practices of Fingerling and Yearling production	01	02 day	Off	12.08.2019 & 13.08.2019									15
Post-harvest management	Value addition and value added product preparation	01	03 day	Off	15.01.2020 16.01.2020 17.01.2020									10
Post-harvest management	Seed production and hatchery management in carps	01	03 day	Off	25.07.2019 26.07.2019 27.07.2019									10

(c) Extension functionaries

Thrust area/ Thematic area	**Title of Training**	**No.**	**Duration**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Crop production	Resource conservation technology for sustainable crop production	1	2	Off	7.03.20 8.03.20									15
Crop production	Precision agriculture	1	2	Off	22.03.20 & 23.03.20									15
Protected cultivation technology	Vertical gardening of horticultural crops to increase yield potential	1	1day	on	24.9.19									10
Rejuvenation of old orchard	Rejuvenation of old orchard	1	1day	on	30.10.19									10
INM	training on INM	1	1day	on	23.10.19									10
Production and use of organic inputs	training on organic farming	1	1 day	on	28.12.19									10
IDM	Vermicomposting	1	1 day	on	15.01.20									10
IDM	IDM in groundnut	1	1 day	on	24.01.20									10
Production and management	Feed formulation and feeding management	01	01	On	02.03.2020									15
Production and management	Recent advances in aquaculture practice	01	01	On	01.02.2020									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	2												50
Nursery management	2												50
Integrated Crop Management	4												100
Fodder production	1												25
Production of organic inputs													
Others, (cultivation of crops)													
TOTAL	12												300
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment	2												50
Production of low volume and high value crops	1												25
Off-season vegetables	1												25
Nursery raising													
Exotic vegetables like Broccoli													
Export potential vegetables	3												75
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
TOTAL	7												175
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young													

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
plants/orchards													
Rejuvenation of old orchards	1												25
Export potential fruits	1												25
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
TOTAL	2												50
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants	1												25
Propagation techniques of Ornamental Plants	1												25
Others, if any													
TOTAL	2												50
d) Plantation crops													
Production and Management technology	1												25
Processing and value addition													
Others, if any													
TOTAL	1												25
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 technology													
Post harvest technology and value addition													
Others, if any													
TOTAL	12												300

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
III. Soil Health and Fertility Management													
Soil fertility management	2												50
Soil and Water Conservation													
Integrated Nutrient Management	2												25
Production and use of organic inputs	2												50
Management of Problematic soils	1												25
Micro nutrient deficiency in crops	2												50
Nutrient Use Efficiency	1												25
Soil and Water Testing	2												50
Others, if any													
TOTAL	12												300
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any (Goat farming)													
TOTAL													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
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													

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
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													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
TOTAL													
VII. Plant Protection													
Integrated Pest Management	5												125
Integrated Disease Management	7												175
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	01												25
Carp breeding and hatchery management	01												25
Carp fry and fingerling rearing	01												25
Composite fish culture & fish disease	04												100
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	03												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
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes	01												25
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition	01												25
Others, if any													
TOTAL	12												300
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
XI Agro-forestry													
Production technologies													

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
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL	60												1800

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	1												15
Production of organic inputs	1												15
Planting material production													
Vermi-culture	2												30
Sericulture													
Protected cultivation of vegetable crops	1												15
Commercial fruit production	1												15
Repair and maintenance of farm machinery and implements	1												15
Nursery Management of Horticulture crops													
Training and pruning of orchards	1												15
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries	01												15
Para vets													
Para extension workers													
Composite fish culture	01												10
Freshwater prawn culture													
Shrimp farming													

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
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology	01												10
Fry and fingerling rearing	01												15
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (ICT application in agriculture)	8												120
TOTAL	20												280

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												15
Integrated Pest Management	2												30
Integrated Nutrient management	1												10
Rejuvenation of old orchards	1												10
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	1												15
Care and maintenance of farm machinery and													

implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing	01												15
Production and use of organic inputs	1												10
Gender mainstreaming through SHGs													
Crop intensification													
Others if any aquaculture	01												15
TOTAL	10												150

4. Frontline demonstration to be conducted

FLD-1

1. **Crop**:Rice
2. **Thrust Area**: crop production
3. **Thematic Area**: Weed management
4. **Season**: Kharif
5. **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								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
1	Rice	2ha	**Demonstration of herbicide in Rice** Application of Bensulfuron methyl + pretilachlor (Londax power) @ 60+600g/ha at 3 DAT	No of weeds per sqm, WCE(%), Dry biomass wt/sqm	Herbicide Londax Power Rs 7000/-	78000/-	84000/-									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	Field day On **Demonstration of herbicide in Rice**	1	Farm/Farm Women	1day	Off									20
Training	F/FW training on Integrated weed management in rice	1	Farm/Farm Women	1day	Off									25

FLD-2
Crop: Rice
Thrust Area:Crop production
Thematic Area: Varietal Substitution
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	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Rice	2 ha	Demonstration of High yielding rice variety Pratibha:	Effective panicles/m2, No of filled grains /Panicle, 1000	Seed Cost Rs 5000/-	83000/-	74000/-									10

			Duration 125 days, potential yield- 52.3 q/ha, adaptability to rainfed and irrigated medium land, Resistance to brown spot and glume discoloration	grain weight												

Extension and Training activities under FLD:

Activity	**Title of Activity**	**No.**	**Clientele**	**Duration**	**Venue**	**No. of Participants**								
					On/Off	**SC**		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
Field Day	Field day On Demonstration of High yielding rice variety Pratibha	1	Farm/Farm Women	1day	Off									20

FLD-3
Crop: Ground nut
Thrust Area: Crop production
Thematic Area: weed management
Season: Rabi
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	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
3	Groundnut	2ha	**Demonstration Of herbicides in weed management in Groundnut:** Pre emergence application of Oxyflourfen @ 0.04 kg/ha followed by early post emergence spray of imazethapyr 0.12/ha.	Weed density, dry biomass wt. per sqm, WCE, no of pods /plant	Herbicide Rs 5000/-	91200/-	98453/-									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	Field day On **Demonstration Of herbicides in weed management in Groundnut**	1	Farm/Farm Women	1day	Off									20
Training	F/FW training on Integrated weed management in groundnut	1	Farm/Farm Women	1day	Off									25

FLD-4

Crop:Sunflower
Thrust Area: crop production
Thematic Area: Varietal Substitution
Season:Rabi
Farming Situation Irrigated mediumland

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
4	Sunflower	2ha	**Demonstration of sunflower hybrid LSFH-171** :	Plant height,capitulum diameter(cm)	Seed **LSFH-171**	112000/-	82000/-									10

			Cultivation of downy mildew resistant sunflower hybrid LSFH-171 with 60:90:60NP2O5K2O Kg/ha .Application of sulphur @20kg/ha SSP OR apply gypsum @200kg/ha as basal. Spray Borax @ 0.2%(2g/l of water) to capitulum at ray floret opening stage to improve seed set and seed filling.	,test weight(g), seed yield,												

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	Field day On **Demonstration of sunflower hybrid LSFH-171**	1	Farm/Farm Women	1day	Off									20
Training	F/FW training on Improved package of practices of sunflower	1	Farm/Farm Women	1day	Off									25

FLD-5

Crop: **cowpea**

Thrust Area: Varietal replacement of horticultural crops
Thematic Area: Varietal Substitution
Season: Kharif 2019
Farming Situation: Rainfed medium land ,,Rice-vegetable cropping system

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 (Approximate)	Local (Approximate)	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	**Cowpea (Kasi Kanchan)**	1	Cultivation of variety Kasi Kanchan	Yield(q/ha) YMV incidence (%), Pod length (cm), No. of pods/plant,	Seeds of kasi kanchan	63000	52000	0	0	2	0	3	0	5	0	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
Field day	Field day on cowpea variety KasiKanchan	1	Farmer &farmwomen	1day	off	-	-	-	-	-	-	-	-	25

FLD-6

6.Crop: Brinjal

Thrust Area: Integrated crop management
Thematic Area: INM
Season: Kharif 2019
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								
								SC		ST		Other		Total		
					Name of Inputs	Demo (Approximate)	Local Approximate)	M	F	M	F	M	F	M	F	T
1	**Brinjal**	1	Application of Arka Microbial Consortium In Brinjal Plant	Yield(q/ha) No. of fruits/plant, weight of individual fruit, Cost of production	Arka Microbial Consortium	115500	98000	1	1	0	0	3	0	4	1	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
Field day	Field day on Application of Arka Microbial Consortium In Brinjal Plant	1	Farmer &farmwomen	1day	off	-	-	-	-	-	-			25

FLD-7

Crop:**tomato**

Thrust Area: Varietal replacement of horticultural crops
Thematic Area: Varietal Substitution
Season: Rabi 2019-20
Farming Situation: Irrigated medium land , Rice-Vegetable cropping system

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 (Approximate)	Local (Approximate)	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Tomato(Arka Rakshak)	1	Cultivation of variety Arka Rakshak	Yield(q/ha) No. of fruits/plant, yield/plant,	Seeds of Tomato(Arka Rakshak	132500	109780	0	0	0	0	4	1	4	1	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
Field day	Field day on **Tomato(Arka Rakshak**	1	Farmer &farmwomen	1day	off							18	7	25

FLD-8

Crop: **Marigold**

Thrust Area: crop management
Thematic Area: Micronutrient application
Season: Rabi 2019-20
Farming Situation: Irrigated medium land, flower-flower cropping system

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 (Approximate)	Local Approximate)	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Marigold (Pusa Basanti)	1	Foliar Spray of Micro-nutrient in Marigold	Plant height, Spread of plant, Days for first bud initiation ,no.of flower/plant, r,flower yield/ha.	Seeds of kasiakanchan	98000	78000	1	0	1	0	3	0	5	0	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
Field day	Field day on Foliar Spray of Micronutrient in Marigold	1	Farmer &farmwomen	1day	off									25

FLD-9

Crop: **tomato**

Thrust Area: Yield enhancement by soil management
Thematic Area: Biofertiliser application
Season: Rabi 2019-20
Farming Situation: Irrigated medium land , rice -vegetable cropping system

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 (Approximate)	Local Approximate)	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	tomato (Laxmi)	0.4	consortia biofertilisers application in tomato	Soil parameter before and after crop, No. of fruit per plant, Fruit wt. Yield,B:C ratio	Consortia biofertiliser	90000	79000	1	0	0	0	4	0	5	0	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
Field day	Field day on consortia biofertilisers application in tomato	1	Farmer &farmwomen	1day	off									25

FLD-10

Crop: **tuberose**

Thrust Area: Yield enhancement by soil management
Thematic Area: INM
Season: Kharif 2019
Farming Situation: Rainfed medium land , Rainfed/ medium land, floriculture-floriculture cropping system

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 (Approximate)	Local Approximate)	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	**Tuberose) Calcuta Single)**	0.4	Application of 75% STBF +FYM 1kg/m^2 + Vermicompost (300g/m^2)+2g/plant Azospirillum + 2g/plant PSB	No. of florets/spike, Soil testing values before and after crop Yield, B:C ratio	Vermi-compost	112500	83000	1	0	1	0	3	0	5	0	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
Field day	Field day on INM in tuberose	1	Farmer &farmwomen	1day	off									25

FLD-11

Crop:**Groundnut**
Thrust Area: yield enhancement by soil management
Thematic Area: INM
Season: Rabi2019-20
Farming Situation: Rainfed medium land , Rainfed/ medium land, rice-groundnut cropping system

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 (Approximate)	Local Approximate)	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Groundnut	1.0	Application STBF based NPK + sulphur 40 kg /ha + boron as borax @ 10kg/ha as basal application	No. of pods/plant, No. of kernels/plant, Soil parameter values before and after crop, Yield, B:C ratio	Sulphur, Boron	91000	79000	0	0	2	0	3	0	5	0	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
Field day	Field day on INM in groundnut	1	Farmer &farmwomen	1day	off									25

FLD-12

Crop: **sunflower**

Thrust Area: Yield enhancement by soil management
Thematic Area: INM
Season: Rabi 2019-20
Farming Situation: Rainfed medium land , Rainfed / medium land, rice-oilseed cropping system

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								
								SC		ST		Other		Total		
					Name of Inputs	Demo (Approximate)	Local Approximate)	M	F	M	F	M	F	M	F	T
1	Sunflower	1	STBF +FYM @5t/ha +lime 5q/ha +Bio-inoculant (azotobacter and azospirillum)@10 kg/ha	Plant height, Capitulum diameter ,Test weight(g),seed yield, soil parameters before and after crop. yield/ha.B:C ratio	FYM lime Bio-inoculant (azotobacter and azospirillum	95000	83000	0	0	2	0	3	0	5	0	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
Field day	Demonstration on acid soil management in sunflower	1	Farmer &farmwomen	1day	off									25

FLD-13

Crop: **Rice**

Thrust Area: Yield enhancement by disease management
Thematic Area: IDM
Season: Kharif, 2019

Farming Situation: Rainfed medium land , rice-oilseed cropping system

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 (Approximate)	Local Approximate)	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Rice	1	Seed treatment with tricyclazole @ 3 g/kg of seed and foliar spraying of tricyclazole @ 300 g/ ha, twice at 15 days interval and azospirillum)@10 kg/ha	Disease leaves % affected panicle % yield/ha.B:C ratio	Tricyclazole	38546	35212	1	0	1	0	3	0	5	0	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
Field day	Demonstration on management of Blast disease in Rice	1	Farmer &farmwomen	1day	off									25

FLD-14

Crop: **Tomato**

Thrust Area: Yield enhancement by wilt management

Thematic Area: IDM

Season: Rabi, 2019 -20

Farming Situation: Irrigated medium land , rice-vegetable cropping system

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 (Approximate)	Local Approximate)	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	tomato	1	Seed treatment with Metalaxyl+Mancozeb 72% WP @ 2gm/kg +soil application of carbofuran @ 1kg/ha+ soil drenching of carbendazim 0.15%+ streptocycline 0.015% at 30 and 45 days after transplanting	wilting % in Nursery Wilting % in main-field Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio	Metalaxyl+Mancozeb Carbofuran carbendazim	110200	98300	0	0	2	0	3	0	5	0	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
Field day	Demonstration on wilt complex management in Tomato	1	Farmer &farmwomen	1day	off									25

FLD-15
Crop: **mango**
Thrust Area: crop management
Thematic Area: IPM
Season: Rabi, 2019 -20
Farming Situation: Irrigated medium land , fruit-fruit cropping system

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 (Approximate)	Local Approximate)	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Mango	2	Destruction of fallen fruits, installation of methyl eugenol trap@10/ha., Poison batting with 1lt. Gur +10 lt. of water+ 20 ml deltamethrin for 01 ha. Area	No.of fruit fly trapped/week/trap Damaged fruit % Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio	methyl eugenol,trap, deltamethrin	38000	30300	0	0	2	0	3	0	5	0	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
Field day	Demonstration on management of Fruit fly in Mango	1	Farmer &farmwomen	1day	off									25

FLD- 16
Crop: **Tomato**
Thrust Area: Yield enhancement by pestmanagement
Thematic Area: IPM
Season: Rabi, 2019 -20
Farming Situation: Irrigated medium land , rice-vegetable cropping system

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 (Approximate)	Local (Approximate)	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	CABBAGE	1	spray of Azadiractin 5% @200ml/ha at the time of flowering, Spraying of novaluron 10 % EC & 750 ml/ha & Emamectin benzoate 5% EC @ 200g/ha at 10-15 days interval	No. of larva/head Damaged head% Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio	Azadiractin Novaluron Emmactin benzoate	107200	97800	0	0	1	0	4	0	5	0	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
Field day	Demonstration on management of Diamond back moth in Cabbage	1	Farmer &farmwomen	1day	off									25

FLD- 17

Crop: Fish
Thrust Area: Mixed carp culture
Thematic Area: Production and Management
Season: Year Round 2019-20
Farming Situation: Rainfed & Irrigated/Canal fed

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
01	FW Fish Culture (IMC & Exotic carps)	05 Nos	**Stocking density :-** Yearling @ 5,000 Nos./ha **Stocking ratio :-** Surface : Column : Bottom feeder :: 3 : 4 : 3 **Species composition:-** Surface feeder (30%): Catla (ZP. Feeder); Column feeder (40%)- Rohu (Phytopkt. feeder)- 25-30% & Grass carp (Macro-vegetation feeder)- 10-15%; Bottom	Yield Parameter- Avg. Length, Avg. Wt. SGR Water Quality Parameter-pH, DO, Plankton,Alkalinity Cost of cultivation, Yield, B:C	Yearlings@ 5000 Nos./ha Soil & water test based application of Aquafiers (Lime, Antiparasitic idal and antibacterial agents)	App. 1,50,000/- per ha	App. 1,20,000/- per ha									05

			feeder (30%)- Mrigal (Plant origin feeder)- 10-20% & Common carp (Animal origin feeder)- 10-20% Soil & Water quality mgmt..- Application of suitable Aquifers	ratio Profitability Index												

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	Culture practices in community tank	01	Farmers and Farm Women	1 day	Off									25
	Importance of Soil and water quality parameters in fish production	01		1 day	Off									25
Field day	Field day	01	FLD beneficiary, Line dept. Officers, Local leaders and Farmers	1 day	Off									20
Diagnostic visit	FLD on Yearling stocking for yield enhancement in community pond	05	Farmers	5 day	Off									
Method demonstration	Yearling identification and stocking. Testing of water parameters. Feeding and dose calculation of medicine and chemicals	05	FLD beneficiary											

FLD-18

Crop: Fish
Thrust Area: Nursery pond productivity enhancement
Thematic Area: Production and Management
Season: Kharif 2019
Farming Situation: Rain-fed & Irrigated/Canal fed

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
01	Carp seed production	05 Nos	Application of sea weed extract @ 1 Kg/Ac/month+ Mineral Mixture 1kg/Ac/month in two split doses at fortnight interval, significantly maintains the desired plankton level and increases the fish yield. Sea weed extract is a liquid organic bio fertilizer having organic micro nutrient, NPK and Natural Growth Hormones. Plankton development within four Ds with no incidence of black soil and ammonia formation.	**Yield Parameter**- Avg. Wt. & Length, % of Survivability **Water Quality Parameter**- Plankton, pH, DO_2, Alkalinity, Hardness Cost of cultivation, Yield, B:C ratio Profitability Index	Sea weed extract and mineral mixture Water quality aquafiers	App. 1,10,000/- per ha	App. 1,15,000/- per ha									05

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	Production and management of Natural food in Nursery Pond	01	Farmers and Farm Women	1 day	Off									25
	Importance of soil and water quality parameters in fish production	01	Farmers and Farm Women	1 day	Off									25
Field day	Field day	01	FLD beneficiary, Line dept. Officers, Local leaders and Farmers	1 day	Off									20
Diagnostic visit		05	Farmers	5 day	Off									
Method demonstration	Testing of water parameters. Feeding and dose calculation of medicine and chemicals	05	FLD beneficiary											

FLD-19

Crop: Fish + Horticultural crops + Live Stock
Thrust Area: Pond based farming system
Thematic Area: Integrated Farming System
Season: Year Round 2019-20
Farming Situation: Rainfed & Irrigated/Canal fed

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
01	Fish, Horticultural crops, Live stock	03	Fish (IMC) @ 10,000 Nos/ha, Poultry@500-600 Nos/ha or Duckery@250-300 Nos/ha or Cow @ 8-10 Nos/ha with	Yield Parameter (Fish)-Avg. Body Wt., % of Survivability Animal – Meat & egg or Milk yield; Vegetable: Yield	Fish Fingerlings, Vegetable seedlings and saplings, Poultry chick/Duckling	App. 1,20,000/- per ha	App. 1,10,000/- per ha									03

			need based vegetable and fruit crops in the Bund Area. Soil and water test based Aquafer application for pond management. Balanced ration feeding as per the recommended dose.	Water Quality Parameter- Plankton, pH, DO_2, Alkalinity, Hardness. Cost of cultivation, Additional return, , B:C ratio Profitability Index												

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	Pond based Integrated Farming system	01	Farmers and Farm Women	1 day	Off									25
	Plankton management in grow-out pond	01		1 day	Off									25
Field day	Field day	01	FLD beneficiary, Line dept. Officers, Local leaders and Farmers	1 day	Off									20
Diagnostic visit		05	Farmers	5 day	Off									
Method demonstration	Testing of water parameters. Feeding and dose calculation of medicine and chemicals	05	FLD beneficiary											

FLD-20

Crop: Fish (marine)
Thrust Area: Value addition
Thematic Area: Post-harvest management
Season: Rabi 2019-20
Farming Situation:

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
01	Marine fish	05 Nos	Dip treatment of fish in saturated brine containing 3% Ca $(C_2H_5COO)_2$] for 30 minutes after salting.	TPC (Bacterial load) Fungal & Mould count Cost of Production, Organoleptic attributes (Taste, Odour, Flavour, Texture, Colour) & B:C ratio	Calcium propionate	App. 5000/- per 100 kg fish	App. 4300/- per 100 kg fish									05

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	Value addition and value added products from fish and shell fish	01	Farmers and Farm Women	1 day	Off									25
Field day	Field day	01	FLD beneficiary, Line dept. Officers, Local leaders and Farmers	1 day	Off									20
Diagnostic visit	FLD on use of calcium propionate for preservation of cured fish	05	Farmers	5 day	Off									
Method demonstration	Drying process, Preparation of preservatives and storage	05	FLD beneficiary											

6. 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.)
Rice	**Swarna Sub-1**	**Kharif 2019**	**4 ha**	**FS**	**160q**	**100000**	**400000**	**230000**
Tomato	Arka Rakshak	fromRabi2019 to Summer 2020	20000	Seedling raising	-	6400	20000	14600
Brinjal	Swarna Shyamali	fromKharif2019 to Rabi 2020	10000	Seedling		3900	9800	5900
Chilli	ArkaHarita	fromRabi2019 to Summer 2020	10000	Seedling		4200	9900	5700
Drumstick	PKM-1	fromKharif2019 to Rabi 2020	500	Seedling		2500	6000	**3500**
Papaya	Red lady/ Sinta	fromRabi2019 to Summer 2020	1000	Seedling		5800	12500	6800
Vermicompost	-	From Khraif 2019 to Rabi 2019	20q	Vermicompost	20	8000	20000	
Verms	*Eisenia foetida*	From Khraif 2019 to Rabi 2019	10kg	Vermiworm	0.1	2000	5000	
Ornamental fish	Live bearers and egg layers	August' 2019 to March' 2020	16 Sq.mt	Fish Juveniles and adult	500 pairs	10,000/-	25,000/-	15,000/-
Fish	Carps and catfishes	August' 2019 to March' 2020	0.04 ha	Table size fish	1.20 q	5,000/-	12,000/-	7,000/-

b) Village Seed Production Programme

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

7. 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	15										
2.	KisanMela	02										
3.	KisanGhosthi	-										
4.	Exhibition	04										
5.	Film Show	02										
6.	Method Demonstrations	32										
7.	Farmers Seminar	-										
8.	Workshop	01										
9.	Group meetings	25										
10.	Lectures delivered as resource persons	20										
11.	Newspaper coverage	20										
12.	Radio talks	12										
13.	TV talks	15										
14.	Popular Articles	15										
15.	Extension Literature	12										
16.	Farm Advisory Services	70										
17.	Scientific visit to farmers field	150										
18.	Farmers Visit to KVK	250										
19.	Diagnostic Visits	35										
20.	Exposure Visits	-										
21.	Ex-trainees Sammelan	10										
22.	Soil Health Camp	02										
23.	Animal Health Camp	02										
24.	Agri Mobile Clinic	-										

25.	Soil Test Campaigns	2										
26.	Farm Science Club conveners meet	2										
27.	Self Help Group conveners meetings	05										
28.	Special day celebration	08										
	Total	711										

8. Revolving fund (In Rs.)

Opening balance of 2019-2020 (As on 01.04.2019)	Amount proposed to be invested during 2019-2020	Expected Return
Rs. 41164	**Rs. 150000**	**Rs. 350000**

9. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
Formation and Operationalisation of Farmers Producer Organisation (FPO) in Ganjam District (Hinjlicut and Surada Blocks) of Odisha	RKVY	200000

2. On-farm trials to be conducted*

OFT-1

i.	**Season:**	Kharif 2019
ii.	**Title of the OFT:**	Assessment on performance of high yielding Ragi varieties
iii.	**Thematic Area:**	Varietal Substitution
iv.	**Problem diagnosed:**	Low yield from existing Ragi variety
v.	**Important Cause:**	
vi.	**Production system:**	Rain fed medium land Ragi-pulse
vii.	**Micro farming system:**	
viii.	**Technology for Testing:**	TO1 - Cultivation Of Varity Bhairabi TO2 - Cultivation of Variety Arjun TO3 - Cultivation of variety Kalua
ix.	**Existing Practice:**	Use of local variety BUDHA MANDIA
x.	**Hypothesis:**	By cultivation of high yielding ragi varieties the productivity will be increases by 25-30% as compared to existing practice
xi.	**Objective(s):**	To increase the productivity
xii.	**Treatments:**	
	Farmers Practice (FP):	Budha mandia
	Technology option-I (TO-I):	Varity Bhairabi(Duration 105-110 days, yield potential 24-44 q/ha. Lodging resistance, moderately resistant to blast, stem borer)
	Technology option-II (TO-II): and so on……	Variety Arjun(Arjun Duration of the variety is 110 days and the yield potential 18-50 q/ha, moderately resistant to leaf, neck blast can tolerate dry spell of 10-12 days at vegetative and 6-8 days at reproductive stages)
	Technology option-III (TO-III): and so on……	Variety Kalua (Duration of the variety 110 days. yield potential 26-51 q/ha. Semi dwarf and medium maturity, light brown grains, tolerate dry spells of 8-10 days at vegetative and 5-6 days at reproductive stages)
xiii.	**Critical Inputs:**	seed Varity Bhairabi, Variety Arjun, variety Kalua
xiv.	**Unit Size:**	1 ha
xv.	**No of Replications:**	5

xvi.	**Unit Cost:**	4000
xvii.	**Total Cost:**	20000
i.	**Monitoring Indicator:**	No. of tillers/plant, No. of fingers/plant, test weight , Yield/ha B:C ratio,
ii.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	CPR, BERHAMPUR, OUAT

OFT-2

i.	**Season:**	Kharif 2019
ii.	**Title of the OFT:**	Assessment on chemical weed management in Blackgram
iii.	**Thematic Area:**	Weed Management
iv.	**Problem diagnosed:**	Low yield due to severe weed infestation and high cost of manual hand weeding
v.	**Important Cause:**	high cost of manual hand weeding and non availability of labour during critical stage of weeding
vi.	**Production system:**	Rice –pulse
vii.	**Micro farming system:**	Irrigated medium land
viii.	**Technology for Testing:**	TO_1 - Pendimethalin 30 % EC @ 1kg/ha at 3 DAS as PE TO_2 - Pendimethalin 30% EC+ Imazethapyr 2%EC premix @1.00 kg a.i/ha at 2DAS as pre emergence
ix.	**Existing Practice:**	No weeding
x.	**Hypothesis:**	By application of herbicides the cost of cultivation reduces by 30-40% and increases the yield over the existin g practice
xi.	**Objective(s):**	To enhance the productivity and reduce the cost of cultivation
xii.	**Treatments:**	
	Farmers Practice (FP):	No weeding
	Technology option-I (TO-I):	Varity Bhairabi(Duration 105-110 days, yield potential 24-44 q/ha. Lodging resistance, moderately resistant to blast, stem borer)
	Technology option-II (TO-II): and so on……	Variety Arjun(Arjun Duration of the variety is 110 days and the yield potential 18-50 q/ha, moderately resistant to leaf, neck blast can tolerate dry spell of 10-12 days at vegetative and 6-8 days at reproductive stages)
	Technology option-III (TO-III): and so on……	Variety Kalua (Duration of the variety 110 days. yield potential 26-51 q/ha. Semi dwarf and medium maturity, light brown grains, tolerate dry spells of 8-10 days at vegetative and 5-6 days at reproductive stages)
xiii.	**Critical Inputs:**	Herbicide(pendimethalin 30% EC Pendimethalin 30% EC+ Imazethapyr 2%EC premix)
xiv.	**Unit Size:**	1 ha
xv.	**No of Replications:**	7
xvi.	**Unit Cost:**	6000
xvii.	**Total Cost:**	42000
xviii	**Monitoring Indicator:**	Weed density per sqm, dry biomass weight ,WCE(%), WEED INDEX, no of pods per plant
xix.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	OUAT, Bhubaneswar

OFT-3

i.	**Season:**	Kharif 2019
ii.	**Title of the OFT:**	Assessment of tuberose cultivars
iii.	**Thematic Area:**	Varietal Substitution
iv.	**Problem diagnosed:**	low profitability from the existing variety
v.	**Important Cause:**	Low productivity a
vi.	**Production system:**	Rainfed/ medium land
vii.	**Micro farming system:**	floriculture-floriculture culture cropping system
viii.	**Technology for Testing:**	To1. Cultivation of Arka Nirantar To2. Cultivation of Arka Prajawal
ix.	**Existing Practice:**	Cultivation of old existing varities (calcutta single
x.	**Hypothesis:**	by cultivation of Arka Prajawal and Arka Nirantar the productivity will be more then the old existing varities (calcutta single
xi.	**Objective(s):**	To increase productivity
xii.	**Treatments:**	
	Farmers Practice (FP):	Old existing varities (calcutta single)
	Technology option-I (TO-I):	Cultivation of Arka Nirantar
	Technology option-II (TO-II): and so on……	Cultivation of Arka Prajawal T
xiii.	**Critical Inputs:**	planting material of Varity Arka Niranta,r Arka Prajawal
xiv.	**Unit Size:**	0.08 ha
xv.	**No of Replications:**	7
xvi.	**Unit Cost:**	19000
xvii.	**Total Cost:**	113000
xviii	**Monitoring Indicator:**	length of spike, No. of spikes/plant, No.of floret/spike, , Duration of flowering Flower Yield/ha B:C ratio
xix.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	IIHR

OFT-4

i.	**Season:**	Rabi 2019-20
ii.	**Title of the OFT:**	Assessment of leaf curl tolerant chilli varieties
iii.	**Thematic Area:**	Varietal Substitution
iv.	**Problem diagnosed:**	Low productivity
v.	**Important Cause:**	leaf curl virus causes low prodctivity
vi.	**Production system:**	Rabi, irrigated-medium land, intensive culture
vii.	**Micro farming system:**	rice-vegetable cropping system
viii.	**Technology for Testing:**	To1- Cultivation of Chili F1 hyb. Arka Harita To2.- Cultivation of Chili F1 hyb. Arka Meghna
ix.	**Existing Practice:**	Cultivation of Chili F1 hyb. Daya
x.	**Hypothesis:**	By cultivation of Variety Arka Harita and Arka Meghna the productivity will be more then the cultivated variety Daya
xi.	**Objective(s):**	To increase productivity)
xii.	**Treatments:**	

	Farmers Practice (FP):	Cultivation of Chili F1 hyb. Daya
	Technology option-I (TO-I):	Cultivation of Chili F1 hyb. Arka Harita
	Technology option-II (TO-II): and so on……	Cultivation of Chili F1 hyb. Arka Meghna
xiii.	**Critical Inputs:**	seeds of Varity Arka Harita, Arka Meghna
xiv.	**Unit Size:**	0.4 ha
xv.	**No of Replications:**	7
xvi.	**Unit Cost:**	18000
xvii.	**Total Cost:**	126000
xviii.	**Monitoring Indicator:**	Plant height, No. of fruits/plant,% of disease infestation Yield/ha B:C ratio
xix.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	IIHR

OFT-5

i.	**Season:**	**Rabi 2019-20**
ii.	**Title of the OFT:**	Assessment of secondary(sulphur)/Micro(Boron) nutrient for curd quality and higher yield in cauliflower
iii.	**Thematic Area:**	INM
iv.	**Problem diagnosed:**	Low curd quality yield due to
v.	**Important Cause:**	secondary and micro nutrient deficiency
vi.	**Production system:**	Irrigated ,upland
vii.	**Micro farming system:**	Rice-vegetable/ vegetable-vegetable cropping
viii.	**Technology for Testing:**	To1-STBF (NPK) +Sulphur @ 30 kg ha^{-1} as basal application To2- STBF (NPK) + Sulphur @ 30 kg ha^{-1} + 1 kg Boron as Borax as basal application To3-STBF (NPK) +1 kg Boron as Borax as basal application
ix.	**Existing Practice:**	Application of chemical fertilizer (110:46:45Kg N: P_2O_5 :K_2O /ha) only
x.	**Hypothesis:**	By application of STBF (NPK) + Sulphur @ 30 kg ha^{-1} + 1 kg Boron as Borax as basal application yield enhabce by 32%
xi.	**Objective(s):**	To increase productivity and curd quality by soil management
xii.	**Treatments:**	
	Farmers Practice (FP):	Application of chemical fertilizer (110:46:45Kg N: P_2O_5 :K_2O /ha) only
	Technology option-I (TO-I):	STBF (NPK) + Sulphur @ 30 kg ha^{-1} + 1 kg Boron as Borax as basal application
	Technology option-II (TO-II): and so on……	STBF (NPK) + Sulphur @ 30 kg ha^{-1} + 1 kg Boron as Borax as basal application
	Technology option-III (TO-III): and so on	STBF (NPK) +1 kg Boron as Borax as basal application
xiii.	**Critical Inputs:**	Sulphur,boron
xiv.	**Unit Size:**	1ha
xv.	**No of Replications:**	5

xvi.	**Unit Cost:**	18000
xvii.	**Total Cost:**	126000
xviii.	**Monitoring Indicator:**	Curd weight, , Soil test value before & after crop. Yield/ha B:C ratio
xix.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	AICRP on Micronutrient and pollutant, OUAT,2016

OFT-6

i.	**Season:**	Rabi 2019-20
ii.	**Title of the OFT:**	Assessment of integrated nutrient management on yield enhancement of greengram
iii.	**Thematic Area:**	INM
iv.	**Problem diagnosed:**	Low productivity
v.	**Important Cause:**	improper nutrient management
vi.	**Production system:**	Irrigated-Medium land, extensive culture
vii.	**Micro farming system:**	rice-pulse cropping system
viii.	**Technology for Testing:**	To1-100% STBF + FYM @5t/ha To2-100% STBF + FYM@5t/ha+l Rhizobium seed treatment@20g/kg seed+ Soil application of PSB @ 4 kg/ha TO3: 100% STBF + FYM@5t/ha + Lime @5q/ha + Rhizobium seed treatment@20g/kg seed+ Soil application of PSB @ 4 kg/ha
ix.	**Existing Practice:**	Application of chemical fertilizer (15:40:0 Kg N: P_2O_5 :K_2O /ha) only
x.	**Hypothesis:**	BY Integration of bio-fertilisers to STBF of fertilisers and FYM increases the yield by 22%.
xi.	**Objective(s):**	To increases yield by application of lime @5q/ha along with biofertilizers
xii.	**Treatments:**	
	Farmers Practice (FP):	Application of chemical fertilizer (15:40:0 Kg N: P_2O_5 :K_2O /ha) only
	Technology option-I (TO-I):	100% STBF + FYM @5t/ha
	Technology option-II (TO-II): and so on……	100% STBF + FYM@5t/ha+l Rhizobium seed treatment@20g/kg seed+ Soil application of PSB @ 4 kg/ha
	Technology option-III (TO-III): and so on	Application of lime @5q/ha along with biofertilizers increases yield by 47 %
xiii.	**Critical Inputs:**	Lime,Rhizobium,PSB
xiv.	**Unit Size:**	1ha
xv.	**No of Replications:**	7
xvi.	**Unit Cost:**	20000
xvii.	**Total Cost:**	140000

xviii.	**Monitoring Indicator:**	No. of pods/plant , No. of seeds/pod, soil parameters before and after crop Yield/ha B:C ratio
xix.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	AINP on soil biodiversity- Biofertilizers,2017

OFT-7

i.	**Season:**	Kharif, 2019
ii.	**Title of the OFT:**	Assessment of Performance of rice varieties for Tolerance agains BPH in Kharif, Rice
iii.	**Thematic Area:**	Varietal performance
iv.	**Problem diagnosed:**	Chaffy grain Low productivity
v.	**Important Cause:**	BPH attack
vi.	**Production system:**	Rice -pulse
vii.	**Micro farming system:**	Rain fed medium land
viii.	**Technology for Testing:**	T O $_1$: Pooja suitable for shallow low land , 150 days duration, Avg yield: 4.5 t/ha, Resistant to Blast. Field tolerant to BPH and other major pests T $O_{2:}$ Hasanta(OR-2328-5) suitable for rainfed/irrigated shallow low land , 145 days duration, Avg. yield: 3.9 t/ha, Tolerant to BPH, WBPH, Blast, Leaf folder
ix.	**Existing Practice:**	Cultivation of Pratiskhya, suitable for medium land , duration 142 days
x.	**Hypothesis:**	By cultivation of Hasanta(OR-2328-5) which is Tolerant to BPH, WBPH, Blast, Leaf folder Avg. yield: 3.9 t/ha will be obtained and BPH attack will be minimised
xi.	**Objective(s):**	To decrease BPH attack and increase yield by ccultivation of hasant rice variety
xii.	**Treatments:**	
	Farmers Practice (FP):	Cultivation of Pratiskhya, suitable for medium land , duration 142 days
	Technology option-I (TO-I):	T O $_1$: Pooja suitable for shallow low land , 150 days duration, Avg yield: 4.5 t/ha, Resistant to Blast. Field tolerant to BPH and other major pests
	Technology option-II (TO-II): and so on……	T $O_{2:}$ Hasanta(OR-2328-5) suitable for rainfed/irrigated shallow low land , 145 days duration, Avg. yield: 3.9 t/ha, Tolerant to BPH, WBPH, Blast, Leaf folder
xiii.	**Critical Inputs:**	RICE VARITIES Pooja , Hasanta(OR-2328-5
xiv.	**Unit Size:**	1 ha
xv.	**No of Replications:**	07 (Chikarada, Nandika)
xvi.	**Unit Cost:**	20000
xvii	**Total Cost:**	140000

xviii.	**Monitoring Indicator:**	BPH count/m2, Effective panicles/m2, No of Filled grains /Panicle, 1000 grain weight , 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, Chiplima,Odisha,2015

OFT-8

i.	**Season:**	Rabi, 2019
ii.	**Title of the OFT:**	Assessment of Integrated disease management practices for Collar rot in Rabi, Groundnut
iii.	**Thematic Area:**	IDM
iv.	**Problem diagnosed:**	LOW PRODUCTIVITY
v.	**Important Cause:**	Rotting of plants
vi.	**Production system:**	RICE-OILSEED
vii.	**Micro farming system:**	Irrigated Medium land,
viii.	**Technology for Testing:**	T O_1.- Seed treatment with carboxin 37.5% + Thiram 37.5 % (Vitavax power) @ 2.5 gm/ kg seeds during sowing and need base alternative spraying of chlorothalonil 75% wp (Kavach) @ 1.5 gm/lt. and carbendazim 2 gm/lt at 15 days interval T O_{2-} Seed treatment with Tebuconazole @ 1.5 g/kg followed by furrow application o*f T. viride* @ 4kg enriched in 50kg FYM/ha as basal application, then broadcasting of *T. viride* @ 4kg enriched in 250kg FYM/ha at 40 DAS & 2 sprays of Tebuconazole @ 1ml/lit. starting from initiation of foliar diseases and 2nd spray at 15 days interval
ix.	**Existing Practice:**	Spraying of Carbandazim@ 1kg/ha.
x.	**Hypothesis:**	By IDM rotting will minimized and productivity will enhanceby 32%
xi.	**Objective(s):**	To increase productivity
xii.	**Treatments:**	
	Farmers Practice (FP):	Spraying of Carbandazim@ 1kg/ha.
	Technology option-I (TO-I):	Seed treatment with carboxin 37.5% + Thiram 37.5 % (Vitavax power) @ 2.5 gm/ kg seeds during sowing and need base alternative spraying of chlorothalonil 75% wp (Kavach) @ 1.5 gm/lt. and carbendazim 2 gm/lt at 15 days interval
	Technology option-II (TO-II): and so on……	Seed treatment with Tebuconazole @ 1.5 g/kg followed by furrow application o*f T. viride* @ 4kg enriched in 50kg FYM/ha as basal application, then broadcasting of *T. viride* @ 4kg enriched in 250kg FYM/ha at 40 DAS & 2 sprays of Tebuconazole @ 1ml/lit. starting from initiation of foliar diseases and 2nd spray at 15 days interval
	Technology option-III (TO-III):	

	and so on	
xiii.	**Critical Inputs:**	pesticides
xiv.	**Unit Size:**	0.3ha
xv.	**No of Replications:**	7
xvi.	**Unit Cost:**	20,000
xvii.	**Total Cost:**	1,40000
xviii.	**Monitoring Indicator:**	No .of rotted plant/m2 Cost of intervention. Additional income over additional investment ,Yield (q/ha), B:C ratio
xix.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	TNAU, Annual report 2015-16 OUAT,BBSR.,2016

OFT-9

i.	**Season:**	Year round 2019-20
ii.	**Title of the OFT:**	Assessment of Amur carp for increasing fish production in mixed carp culture
iii.	**Thematic Area:**	Production and management
iv.	**Problem diagnosed:**	Slow growth rate & stocking rate of mrigal (ab 30%) greatly hampers the average yield from unit area of culture
v.	**Important Cause:**	Slow growth rate of mrigal fish, which constitute up to 30% of the total stocking density
vi.	**Production system:**	Grow-Out carp culture, Modified Extensive system
vii.	**Micro farming system:**	Irrigated canal fed Modified Extensive system
viii.	**Technology for Testing:**	Substitution of mrigal with amur carp for enhanced production
ix.	**Existing Practice:**	Stocking of mrigal fish along with other carps such as catla and rohu
x.	**Hypothesis:**	Fast growing, bottom feeder, easy acceptability of artificial feed, good consumer acceptibility and also not susceptible to disease, so Amur carp can be a suitable substitute of mrigal in composite mixed carp culture.
xi.	**Objective(s):**	To optimize production from unit area To establish amur carp as an alternative species in mixed carp culture To validate the result in different locations.
xii.	**Treatments:**	
	Farmers Practice (FP):	Stocking ratio Catla: Rohu : Mrigal:: 30:40:30
	Technology option-I (TO-I):	Stocking ratio Catla: Rohu : Mrigal :Amur carp :: 30:40:20:10
	Technology option-II (TO-II): and so on……	Stocking ratio Catla: Rohu : Mrigal:Amur carp :: 30:40:15:15
	Technology option-III (TO-III): and so on	Stocking ratio Catla: Rohu : Mrigal:Amur carp :: 30:40:10:20
xiii.	**Critical Inputs:**	Fingerlings of Mrigal and Amur carp
xiv.	**Unit Size:**	0.4 ha
xv.	**No of Replications:**	05

xvi.	**Unit Cost:**	765
xvii	**Total Cost:**	12150/-
xvii	**Monitoring Indicator:**	Growth Parameter: Avg. Body Wt. & Length, Survivability%, SGR (%); Water quality Parameter: Plankton, pH, DO_2, Alkalinity, Hardness Performance Indicator: Cost of intervention. Yield (q/ha), B:C ratio
xix.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	SAU (University of Agricultural Science, Bengalure-2015)

OFT-10

i.	**Season:**	Year round 2019-20
ii.	**Title of the OFT:**	Assessment of different Parasiticidal agents in controlling external parasites in grow-out carp culture system
iii.	**Thematic Area:**	Production and management
iv.	**Problem diagnosed:**	Indiscriminate use of Organic fertiliser and environmental temperature variation leads to infestation of external crustacean parasites.
v.	**Important Cause:**	Improper disease control measures
vi.	**Production system:**	Grow-Out carp culture, Modified Extensive system
vii.	**Micro farming system:**	Irrigated canal fed Modified extensive carp culture
viii.	**Technology for Testing:**	Assessment of different pond based and feed based anti-parasitic drugs in controlling the Parasitic diseases.
ix.	**Existing Practice:**	Mostly mechanical removal of the Parasite or in few cases use of Formalin (37% HCHO)
x.	**Hypothesis:**	Both the Synthetic Pyrethroids and Avermectin group chemicals/drugs inhibits the growth and brings the mortality of the parasite through disturbance in the CNS, moulting and growth.
xi.	**Objective(s):**	To find-out the effective chemical/drug in successful control of Parasitic diseases in carps. To establish the effective chemical/drug delivery system. To validate the result in different locations.
xii.	**Treatments:**	
	Farmers Practice (FP):	Mechanical removal or in few cases use of Formalin (37% HCHO)
	Technology option-I (TO-I):	Pond application of Synthetic Pyrethroid like Cypermrthrin 10% EC @60 ml/Acre.mt or Deltamethrin 2.8% @ 80ml/Acre-mt (4 times in weekly interval)
	Technology option-II (TO-II): and so on……	Application of Emamectin Benzoate/Ivermectin @ 50 µg/Kg^{-1} fish through feed.

xiii.	**Critical Inputs:**	Cypermetrin/Deltametrin; Ivermectin/Emmamectin benzoate
xiv.	**Unit Size:**	0.4 – 1.0 ha
xv.	**No of Replications:**	07
xvi.	**Unit Cost:**	650
xvii.	**Total Cost:**	9100
xviii.	**Monitoring Indicator:**	% of Infestation, % of Recovery, Fish health Index Plankton, pH, DO_2, Alkalinity, Hardness. Cost of intervention. Yield (q/ha), B:C ratio
xix.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**	ICAR-CIFA 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	RKVY Funded Project on "Formation and Operationalisation of Farmers Producer Organisation (FPO) in Ganjam District (Hinjlicut and Surada Blocks) of Odisha"	Rs. 162.74 Lakh

11. No. of success stories proposed to be developed with their tentative titles: 3

12. Scientific Advisory Committee

Date of SAC meeting held during 2018-19	Proposed date during 2019-2020
13.12.2018	**Dec 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	200										20	1000
Water Samples	25										10	
Other (Please specify)												
Total	225										30	10000

14. Fund requirement and expenditure (Rs.)*

Total Fund Requirement:

Heads	Expenditure (last year) (Rs.) up to 31.03.2019	Expected fund requirement (Rs.)
Recurring		
i. Pay & allowance		115.00
ii. Contingency	11.988	18.00
iii. TA	0.8	2.00
iv. HRD		
Non-recurring (specify)		
i. Works (Road, threshing floor, drying yard, vehicle and implement shed, irrigation system etc.)		20.00
iv. Furniture & Equipment		5.00
v. Vehicle		8.00
TOTAL		**168.00**

* 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