ACTION PLAN
OF
KVK, KANDHAMAL
FOR
2019-20

ODISHA UNIVERSITY OF AGRICULTURE & TECHNOLOGY, BHUBANESWAR

ACTION PLAN FOR 2019-2020

1. Name of the KVK: Kandhamal

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2.Name of host organization :

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture & Technology At/Po-Siripur, Bhubaneswar Odisha	0674-2397362	0674-2397933	deanee@ouat.nic.in deanextensionouat@yahoo.com deanextension_ouat@rediffmail.com

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

(a) Farmers and farmwomen

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
SOIL SC	Importance of soil & water testing for improving the soil health	1	1	On	20.6.2019			25	05			25	05	30
SOIL SC	Integrated nutrient management for rice cultivation	1	1	Off	10.07.2019			25	05			25	05	30
SOIL SC	Integrated nutrient management for maize cultivation	1	1	Off	19.07.2019			25	05			25	05	30
SOIL SC	Nutrient management for groundnut cultivation	1	1	Off	13.08.2019			25	05			25	05	30
SOIL SC	Nutrient Management Practices for Organic Cultivation of Finger Millet	1	1	Off	25.06.2019			25	05			25	05	30
SOIL SC	Nutrient management for pulses	1	1	Off	28.09.2019			25	05			25	05	30
SOIL SC	Management of acid soil for higher crop productivity	1	1	On	05.11.2019			25	05			25	05	30
SOIL SC	INM for off-season cauliflower	1	1	Off	28.07.2019			25	05			25	05	30

	cultivation													
SOIL SC	Integrated nutrient management for sunflower cultivation	1	1	Off	27.11.2019					25	05	25	05	30
SOIL SC	Integrated nutrient management for mustard cultivation	1	1	Off	22.10.2019					25	05	25	05	30
SOIL SC	Nutrient Management Practices for Organic Cultivation of aromatic rice	1	1	On	15.07.2019					25	05	25	05	30
SOIL SC	Integrated nutrient management for niger cultivation	1	1	Off	30.08.2019					25	05	25	05	30
SOIL SC	Integrated nutrient management practices for garden pea cultivation	1	1	Off	11.11.2019					25	05	25	05	30
SOIL SC	Integrated nutrient management practices for cole crop cultivation	1	1	Off	23.11.2019					25	05	25	05	30
SOIL SC	Use of water soluble fertilizers in major crops	1	1	Off	02.12.2019					25	05	25	05	30
HOV	Off season tomato farming	1	1	Off	30.06.2020					25	05	25	05	30
HOV	SLTS and INM practices in Runner beans	1	1	On	20.07.2019					25	05	25	05	30
HOV	Package and practices of chilli	1	1	Off	24.10.2019					25	05	25	05	30
HOV	Cultivation practices & sustainable harvesting of Okra fruits	1	1	Off	30.01.2020					25	05	25	05	30
HOV	Off-season Cole crops (Cabbage, cauliflower, Broccoli)	1	1	Off	06.07.2019					25	05	25	05	30
HOV	Varietal evaluation & INM practices in Brinjal	1	1	Off	05.08.2019					25	05	25	05	30
HOV	Package of practices of	1	1	Off	06.10.2020					25	05	25	05	30

	potato													
HOV	Ridge and furrow methods of Onion farming	1	1	On	25.07.2019					25	05	25	05	30
HOF	Planting mechanism in papaya & INM in papaya cultivation	1	1	On	03.08.2019					25	05	25	05	30
HOF	Planting mechanism in TC Banana	1	1	On	09.08.2019					25	05	25	05	30
HOF	Cultivation of Tuber crops (Sweet potato Yam, EFY)	1	1	Off	19.08.2019					25	05	25	05	30
HOS	Horticulture (turmeric) base farming system	1	1	Off	24.07.2019					25	05	25	05	30
AGRO	Package & practices for SRI method of rice cultivation	1	1	On	24.07.2019					25	05	25	05	30
AGRO	Integrated weed management in groundnut	1	1	Off	20.07.2019					25	05	25	05	30
AGRO	Package and practices for finger millet cultivation	1	1	Off	06.08.2019					25	05	25	05	30
AGRO	Integrated weed management in upland paddy	1	1	On	20.08.2019					25	05	25	05	30
AGRO	Package & practices for niger cultivation	1	1	Off	07.09.2019					25	05	25	05	30
AGRO	Package & practices for sunflower cultivation	1	1	Off	16.11.2019					25	05	25	05	30
AGRO	Production technique for maize:cowpea intercropping at 2:2 ratio	1	1	On	02.01.2020					25	05	25	05	30
AGRO	Package & practices for aromatic rice production	1	1	Off	19.07.2019					25	05	25	05	30
AGRO	Package & practices for mustard cultivation	1	1	Off	23.10.2019					25	05	25	05	30
AGRO	Package & practices for field pea cultivation	1	1	On	23.11.2019					25	05	25	05	30
AGRO	Production technique for	1	1	On	19.12.2019					25	05	25	05	30

	enriched compost making													
AGRO	Importance of green manuring for soil health improvement	1	1	Off	20.01.2019					25	05	25	05	30
AGRIL. ENGG.	Operation on bullock drawn farm implements	1	2	On	28.06.2019					25	05	25	05	30
AGRIL. ENGG.	Operation of bullock drawn puddler	1	1	Off	20.07.2019					25	05	25	05	30
AGRIL. ENGG.	Different drudgery reducing farm implements for women	1	2	On	25.10.2019					25	05	25	05	30
AGRIL. ENGG.	Use of micro irrigation system in horticulture crops	1	1	On	20.11.2019					25	05	25	05	30
AGRIL. ENGG.	Use of different intercultural implements in vegetable crop	1	2	On	30.11.2020					25	05	25	05	30
AGRIL. ENGG.	Use of different plant protection equipments	1	1	Off	11.12.2019					25	05	25	05	30
AGRIL. ENGG.	Small harvesting implements	1	1	Off	21.12.2019					25	05	25	05	30
AGRIL. ENGG.	Operation of power weeder in vegetables	1	1	Off	03.01.2020					25	05	25	05	30
AGRIL. ENGG.	Water management techniques for soil moisture conservation	1	2	On	12.01.2020					25	05	25	05	30
AGRIL. ENGG.	Use of turmeric boiler for drudgery reduction	1	1	Off	21.01.2020					25	05	25	05	30
AGRIL. ENGG.	Use of manual vegetable transplanter	1	1	Off	15.02.2020					25	05	25	05	30
HOME SC	Use of indigenous techniques for storing grains	1	2	Off	10.08.2019					00	30	00	30	30
HOME SC	Cultivation practices of paddy straw mushrooms	1	2	On	23.08.2019					00	30	00	30	30
HOME SC	Cultivation practices of oyster mushroom	2	04	On	21.11.2019 & 10.12.2019					00	60	00	60	60
HOME SC	Planning and layout of nutritional	2	04	Off	12.11.2019 & 15.12.2019					00	30	00	30	30

	garden													
HOME SC	Inclusion of high fiber millets in regular food of children and women	1	1	Off	03.01.2020					00	30	00	30	30
HOME SC	Improved backyard poultry rearing	1	1	Off	02.02.2020					00	30	00	30	30
HOME SC	Use of small implements for drudgery reduction of farm women	1	1	Off	19.02.2020					00	30	00	30	30
HOME SC	Value addition of ragi for additional income generation	1	1	Off	05.03.2020					00	30	00	30	30
PP	IDM in Ragi & other millets	1	2	Off	20.6.2019					25	05	25	05	30
PP	IPM in Black gram & Green gram	1	2	Off	10.07.2019					25	05	25	05	30
PP	IPM in Toria	1	2	On	19.10.2019					25	05	25	05	30
PP	IPM in solanaceous crops	1	2	On	13.08.2019					25	05	25	05	30
PP	IDM in solanaceous crops	1	2	Off	25.08.2019					25	05	25	05	30
PP	IDM in Okra	1	2	Off	28.09.2019					25	05	25	05	30
PP	IPM in cole crops	1	2	On	05.11.2019					25	05	25	05	30
PP	IDM in cole crops	1	2	On	28.11.2019					25	05	25	05	30
PP	Management of fruit fly in Mango	1	1	On	27.03.2020					25	05	25	05	30
PP	IDM in Turmeric and Ginger	1	2	On	22.08.2019					25	05	25	05	30
PP	IPM in Banana	1	2	Off	20.09.2019					25	05	25	05	30
PP	IPDM in nurseries during Kharif season	1	2	On	08.07.2019					25	05	25	05	30

(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**
HOO	Training on throughout the year flower cultivation	1	3	ON	October 2019			20	00			20	00	20

	(marigold) farming													
HOV	Training on raising vegetable seedling under low cost walk in poly tunnel structure	1	3	ON	July 2019									20
SOIL SC.	Vermicomposting for organic cultivation	1	4	ON	October 2019									20
SOIL SC.	Use of biofertilizers in vegetable crop	1	3	ON	November 2019									20
SOIL SC.	Production of NADEP compost	1	4	ON	December 2019									
AGRO	Vermin production technique	1	4	ON	Aug 2019									20
AGRO	Kitchen gardening	1	2	ON	September 2019									20
AGRIL. ENGG.	Use of mulching for reducing weed and conserving soil moisture	1	2	ON	November 2019									20
AGRIL. ENGG.	Operation of power-tiller for wet & dry tillage	1	2	ON	July 2019									20
AGRIL. ENGG.	Tractor operation & maintenance	1	7	ON	Feb 2020									10
PP	Preparation of bio-concentrates for disease and pest management in various crops	1	4	ON	March 2020									20

(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**
HOF	Training on Scientific Management Practice in fruits (Application of PGR application, intercropping & Pruning management)	1	1	On	July 2019									20
SOIL SC.	Nutrient management in organic vegetable production	1	1	On	Aug 2019									30
SOIL SC.	Nutrient management practices for organic farming	1	1	On	September 2019									30
AGRO	Different types	1	1	On	October 2019									30

	of herbicides & their application in different crops													
AGRIL. ENGG.	Micro irrigation system and its maintenance	1	2	On	November 2019									30
PP	Management of emerging diseases & pests in field crops	1	2	On	December 2019									20

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	02							25	05	30	25	05	30
Resource Conservation Technologies													
Cropping Systems	01												
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management	07							175	35	210	175	35	210
Fodder production													
Production of organic inputs	02							50	10	60	50	10	60
Others, (cultivation of crops)													
TOTAL	12							300	60	360	300	60	360
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	01							25	05	30	25	05	30
Water management													
Enterprise development													
Skill development	01							25	05	30	25	05	30
Yield increment													
Production of low volume and high value crops													
Off-season vegetables	02							50	10	60	50	10	60
Nursery raising													
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)	04							100	20	120	100	20	120
TOTAL													
b) Fruits													

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
Training and Pruning													
Layout and Management of Orchards	02							50	10	60	50	10	60
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
TOTAL													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
TOTAL													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology	01							25	05	30	25	05	30
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology	01							25	05	30	25	05	30
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	01							25	05	30	25	05	30
Soil and Water Conservation													
Integrated Nutrient Management	10							250	50	300	250	50	300
Production and use of organic inputs													
Management of Problematic soils	01							25	05	30	25	05	30
Micro nutrient deficiency in crops	02							50	10	60	50	10	60
Nutrient Use Efficiency	01							25	05	30	25	05	30

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
Soil and Water Testing	01							25	05	30	25	05	30
Others, if any													
TOTAL	16							400	80	480	400	80	480
IV. Livestock Production and Management													
Dairy Management													
Poultry Management	01							00	30	30	00	30	30
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any (Goat farming)													
TOTAL	01							00	30	30	00	30	30
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	02							50	10	60	50	10	60
Design and development of low/minimum cost diet	01							00	30	30	00	30	30
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques	01							00	30	30	00	30	30
Enterprise development													
Value addition	01							00	30	30	00	30	30
Income generation activities for empowerment of rural Women	03							00	90	90	00	90	90
Location specific drudgery reduction technologies	01							00	30	30	00	30	30
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
TOTAL	09							00	270	270	00	270	270
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems	01							25	05	30	25	05	30
Use of Plastics in farming practices													
Production of small tools and implements	08							200	40	240	200	40	240
Repair and maintenance of farm machinery													

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
and implements													
Small scale processing and value addition	01							25	05	30	25	05	30
Post Harvest Technology	01							25	05	30	25	05	30
Water management techniques for moisture conservation	01							25	05	30	25	05	30
TOTAL	12							300	60	360	300	60	360
VII. Plant Protection													
Integrated Pest Management	06							150	30	180	150	30	150
Integrated Disease Management	06							150	30	180	150	30	150
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL	12							300	60	360	300	60	360
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
TOTAL													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL													

Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs	03							50	10	60	50	10	60
Planting material production													
Vermi-culture	02							30	10	40	30	10	40
Sericulture													
Protected cultivation of vegetable crops	01							15	05	20	15	05	20
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops	01							15	05	20	15	05	20
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													

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
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development	01							15	05	20	15	05	20
Commercial floriculture	01							15	05	20	15	05	20
Operation & maintenance of farm implements	02							30	10	40	30	10	40
TOTAL													

Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	01												30
Integrated Pest Management	01												30
Integrated Nutrient management	02												30
Rejuvenation of old orchards	01												20
Value addition													
Protected cultivation technology													
Formation and Management of SHGs													

Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements	01												30
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													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any													
TOTAL	06												170

4. Frontline Demonstration (FLD):

FLD-1	**Demonstration on nutrient management practices for organic cultivation of Finger Millet (*Eleusine coracana* L.) during Kharif**
Crop	**Finger millet**
Thrust Area	**Soil health & fertility management**
Thematic Area	**Integrated Nutrient Management**
Season	**Kharif – 2019**
Farming Situation	**Rain-fed 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
1	Finger millet	1 ha	Organic nutrient management practices	Plant height (cm), number of leaves per plant, number of tillers per hill, panicle length (cm), test weight (cm), no. of filled grains												

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	Organic cultivation of finger millet	01	30	01	Off			25	05			25	05	30

FLD-2	**Demonstration on boron application in rice during kharif season**
Crop	**Rice**
Thrust Area	**Soil health & fertility management**
Thematic Area	**Integrated Nutrient Management**
Season	**Kharif – 2019**
Farming Situation	**Rain-fed 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	1 ha	STBFR + FYM + Boron	Plant height (cm), number of effective tillers per hill, panicle length (cm), test weight (cm), no. of filled grains												

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	INM in rice	01	30	01	Off			25	05			25	05	30

FLD-3	**Demonstration on INM in Mustard during Rabi season**
Crop	**Mustard**
Thrust Area	**Soil health & fertility management**
Thematic Area	**Integrated Nutrient Management**
Season	**Rabi 2019-20**
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
1	Mustard	1 ha	STBFR + FYM + Micronutrient (B & Zn)	No. of siliqua /plant, 1000 seed weight (gm), Plant ht. (cm), No. of seeds/siliqua												

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	INM in oilseed crops	01	30	01	Off			25	05			25	05	30

FLD-4	**Demonstration on organic sources of nutrients in aromatic rice during Rabi season**
Crop	**Rice**
Thrust Area	**Soil health & fertility management**

Thematic Area	**Integrated Nutrient Management**
Season	**Rabi 2019-20**
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
1	Rice	1 ha	Organic sources of nutrients in aromatic rice	No. of effective tillers/ m^2 /plant, plant height (cm), panicle length (cm), No. of grains/ panicle, panicle weight (gm)												

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	Aromatic rice cultivation for higher income	01	30	01	Off			25	05			25	05	30

FLD-5	**Demonstration on Weed Management in Transplanted rice**
Crop	**Rice**
Thrust Area	**Weed Management**
Thematic Area	**Integrated Weed Management**
Season	**Kharif - 2019**
Farming Situation	**Rain-fed 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	1 ha	Pre-emergence application of Pendimethalin 38.7 % SC @ 750 g/ha followed by post	Weed density (g/m^2), Weed biomass (g/m^2), WCE (%)												

			emergence application of Bispyribac Sodium @ 25g ai/ha													

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	IWM in rice	01	30	01	Off			25	05			25	05	30

FLD-6	**Demonstration on intercropping of maize & cowpea at 2:2 ratio**
Crop	**Maize & Cowpea**
Thrust Area	**Crop substitution & cropping system**
Thematic Area	**Integrated Crop Management**
Season	**Rabi – 2019-20**
Farming Situation	**Rain-fed 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
1	Maize & Cowpea	1 ha	Intercropping of maize & cowpea at 2:2 ratio	**For maize** – Plant height (cm), No. of grains per cob, cob length (cm), cob weight (gm) **For cowpea** - No. of pods/plant, grains / pod												

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	Intercropping in Maize with cowpea	01	30	01	Off			25	05			25	05	30

FLD-7	**Demonstration of Greengram Variety IPM 02-14**
Crop	**Greengram**
Thrust Area	**Crop substitution & cropping system**
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**								
								SC		**ST**		**Other**		**Total**		
					Name of Inputs	**Demo**	**Local**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
1	Greengram (Variety IPM 02-14)	1 ha	Green gram variety IPM 02-14	Plant height, No. of branches per plant and No. of pods/plant												

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	ICM of green gram & black gram	01	30	01	Off			25	05			25	05	30

FLD-8	**Demonstration on aromatic rice variety-Nuakalajeera**
Crop	**Aromatic rice**
Thrust Area	**Crop substitution & cropping system**
Thematic Area	**Integrated Crop Management**
Season	**Rabi – 2019-20**
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**								
								SC		**ST**		**Other**		**Total**		
					Name of Inputs	**Demo**	**Local**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
1	Aromatic rice (variety-Nuakalajeera)	1 ha	Cultivation of aromatic rice variety, Nuakala jeera	Plant height, No. of tillers/hill, Panicle length, Grains/panicle, Test weight (gm)												

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	Cultivation of quality rice varieties for higher income	01	30	01	Off			25	05			25	05	30		

FLD-9	**Demonstration on improve method of Raikia bean cultivation**
Crop	**Raikia Bean**
Thrust Area	**Crop substitution & cropping system**
Thematic Area	**Integrated Crop Management**
Season	**Kharif, 2019**
Farming Situation	**Rain fed up 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	Raikia Bean	1 ha	Raikia bean cultivation with Single Line Trellis System (SLTS)	Number of pod / plant, Pod length (cm.), Single pod weight (gm.)												

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	ICM in Raikia bean	01	30	01	Off			25	05			25	05	30		

FLD-10	**Demonstration on planting geometry in Papaya**
Crop	**Papaya**
Thrust Area	**Crop substitution & cropping system**
Thematic Area	**Integrated Crop Management**
Season	**Kharif, 2019**
Farming Situation	**Rain fed up 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	Papaya	1 ha	Spacing between PXP & RXR=1.5MX1.5M	Number of fruits / plant, Single fruit weight (kg.), Days to 1st harvest													

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	ICM in papaya	01	30	01	Off			25	05			25	05	30

FLD-11	**Demonstration on wilt tolerant brinjal var. Swarna Shyamali**
Crop	**Brinjal**
Thrust Area	**Crop substitution & cropping system**
Thematic Area	**Integrated Crop Management**
Season	**Kharif, 2019**
Farming Situation	**Rain fed up 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	Brinjal (var. Swarna Shyamali)	1 ha	Swarna Shyamli Fruit : Medium size (250 g), round, attractive green colour with white stripes. Resistant to bacterial wilt. Time of sowing : July-August and February-March. Spacing : 60 cm x 50 cm. Seed rate : 250-300 g/ha. Maturity : First harvest 35-40 DAT Duration- 140-150 days, Avg. yield- 60-65 t/ha, grown	Wilt incidence (%), No. of fruits per plant, fruit weight (g)												

			round the year)													

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	IDM in solanaceous crops	01	30	01	Off			25	05			25	05	30

FLD-12	**Demonstration of Arka Rakshak during Rabi season**
Crop	**Tomato**
Thrust Area	**Crop substitution & cropping system**
Thematic Area	**Integrated Crop Management**
Season	**Rabi, 2019 - 20**
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
1	Tomato	1 ha	Cultivation of triple resistant Tomato variety Arka Rakshak	Fruit wt(g), No of fruit/plant, Shelf life (days)												

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	IPM in solanaceous crops	01	30	01	Off			25	05			25	05	30

FLD-13	**Demonstration on marigold varieties during Rabi**
Crop	**Marigold**
Thrust Area	**Crop substitution & cropping system**
Thematic Area	**Integrated Crop Management**
Season	**Rabi, 2019 - 20**
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
1	Marigold	1 ha	African marigold and Bidhan Marigold-2 produced maximum flowers/plant (153.4) & yield about 150 q/ha	No. of flower/plant, Single flower weight (gm.), post harvest life in days												

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	Cultivation of flowers for higher income generation	01	30	01	Off			25	05			25	05	30

FLD-14	**Demonstration on marigold varieties during Rabi**
Crop	**Marigold**
Thrust Area	**Flower Cultivation**
Thematic Area	**Integrated Crop Management**
Season	**Rabi, 2019 - 20**
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
1	Marigold	1 ha	African marigold and Bidhan Marigold-2 produced maximum flowers/plant (153.4) & yield about 150 q/ha	No. of flower/plant, Single flower weight (gm.), post harvest life in days												

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

FLD-15	**Demonstration on management of fruit-fly in Mango**
Crop	**Mango**
Thrust Area	**Pest & Disease Management**
Thematic Area	**Integrated Pest Management**
Season	**Summer 2019 (1st)**
Farming Situation	**Rain-fed 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
1	Mango	1 ha	Destruction of fallen fruits, installation of Methyl eugenol trap @10 nos./ha., Poison batting with 1lt. Gur + 10 lt. water + 20 ml Deltamethrin for 01 ha. area	No. of infested fruits/plant												

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	IPDM in fruit crops	01	30	01	Off			25	05			25	05	30

FLD-16	**Demonstration on wilt complex management in Brinjal**
Crop	**Brinjal**
Thrust Area	**Pest & Disease Management**
Thematic Area	**Integrated Pest Management**
Season	**Kharif 2019 (1st)**
Farming Situation	**Rain-fed/Irrigated upland**

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

	Enterprises	Unit (No.)	demonstration	relation to technology demonstrated	Inputs			M	F	M	F	M	F	M	F	T
1	Brinjal	1 ha	Seed treatment with Metalaxyl MZ 72% WP @ 2gm/kg + soil application of Carbofuran @ 1kg a.i./ha + soil drenching with Carbendazim @ 0.15% + Streptocycline @ 0.015% at 30 and 45 days after transplanting	Disease incidence (%)												

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	Soil disinfestation techniques for managing soil-borne pathogens	01	30	01	Off			25	05			25	05	30

FLD-17	**Demonstration on YVMV management in Okra during Rabi**
Crop	**Okra**
Thrust Area	**Pest & Disease Management**
Thematic Area	**Integrated Pest Management**
Season	**Rabi 2019-20 (1st)**
Farming Situation	**Irrigated up & 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	Okra	1 ha	Seed Treatment with Imidacloprid 600 FS @ 5 gm / kg, Installation of Yellow Sticky Trap @ 50 / ha and spraying	Disease incidence (%)												

			Acetamiprid 20 SP @ 0.3 gm / Lit. at 30 and 45 DAS proved to be the best practice in controlling the white fly and reducing the YVMV in okra													

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	IPDM in Okra	01	30	01	Off			25	05			25	05	30

FLD-18	**Demonstration on scaring beetle management in Banana**
Crop	**Banana**
Thrust Area	**Pest & Disease Management**
Thematic Area	**Integrated Pest Management**
Season	**Throughout year (1st)**
Farming Situation	**Irrigated up 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	Banana	1 ha	Clean cultivation, Spraying of Azadirachtin (1500PPM) @ 2ml/lt. & covering the bunch with plastic polythene bag	Pest incidence (%), No. of scars / fruit, No. of hands/ bunch, No. of fruits/hand, Fruit Wt. (gm)												

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	IPDM in banana	01	30	01	Off			25	05			25	05	30

FLD-19	**Demonstration of Mini Power Weeder (1.8 hp) in MAIZE for weeding in Rabi season**
Crop	**Maize**
Thrust Area	**Weed Management**
Thematic Area	**Integrated Weed Management**
Season	**Rabi,2019**
Farming Situation	**Irrigated medium land**

Sl. No.	**Crop & variety / Enterprises**	**Proposed Area (ha)/ Unit (No.)**	**Technology package for demonstration**	**Parameter (Data) in relation to technology demonstrated**	**Cost of Cultivation (Rs.)**			**No. of farmers / demonstration**								
					Name of Inputs	**Demo**	**Local**	**SC**		**ST**		**Other**		**Total**		
								M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
1	Maize	1 ha	Clean cultivation, Spraying of Azadirachtin (1500PPM) @ 2ml/lt. & covering the bunch with plastic polythene bag	Pest incidence (%), No. of scars / fruit, No. of hands/ bunch, No. of fruits/hand, Fruit Wt. (gm)												

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	Mechanized weeding for reducing cost and labour	01	30	01	Off			25	05			25	05	30

FLD-20	**Demonstration on OUAT YOKE for drudgery reduction of bullocks**
Commodity	**Paddy**
Thrust Area	**Farm Mechanization**
Thematic Area	**Drudgery Reduction**
Season	**Kharif,2019-20**
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	Paddy	1 ha	OUAT Yoke	Heart rate of bullock (bpm), field												

				capacity(h/ha), respiration rate, fatigue level												

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Use of animal drawn improved implements for higher performance	01	30	01	Off			25	05			25	05	30

FLD-21	**Demonstration of mobile turmeric steam boiler**
Commodity	**Turmeric**
Thrust Area	**Farm Mechanization**
Thematic Area	**Drudgery Reduction**
Season	**Rabi,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
1	Turmeric	1 ha	Use of Mobile Turmeric Boiler	Capacity-t/hr, Fuel consumption (lit/hr), labour saving(man days/ha)												

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	Post harvest technology of turmeric	01	30	01	Off			25	05			25	05	30

FLD-22	**Demonstration on Fruit Harvester**
Commodity	**Mango, Guava**
Thrust Area	**Farm Mechanization**
Thematic Area	**Drudgery Reduction**
Season	**Summer, 2019-20**
Farming Situation	**Fruit orchards**

Sl.	Crop &	Proposed	Technology	Parameter	Cost of Cultivation (Rs.)	No. of farmers / demonstration

No.	variety / Enterprises	Area (ha)/ Unit (No.)	package for demonstration	(Data) in relation to technology demonstrated	Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Mango, Guava	1 ha	Use of fruit harvester	Capacity (ha/hr), Plant injury percentage (%)												

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	Mechanized plucking for drudgery reduction	01	30	01	Off			25	05			25	05	30

FLD-23	**Demonstration of production of paddy straw mushroom with threshed straw**
Enterprise	**Mushroom**
Thrust Area	**Low cost production technique**
Thematic Area	**Mushroom Cultivation**
Season	**Kharif 2019**
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
1	Mushroom	1 ha	Production of paddy straw mushroom with threshed straw	Pin head appearance (days), Days of first flush, size of fruit budding, average fruit body wt, Biological efficiency												

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	Mushroom cultivation for entrepreneurship development	01	30	01	Off			25	05			25	05	30

FLD-24	**Demonstration of nutritional garden for Improving Nutritional Security of farm family**
Enterprise	**Nutritional garden**
Thrust Area	**Nutritional Security**
Thematic Area	**Livelihood Security**
Season	**Kharif 2019 &Rabi 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**
1	Nutritional garden	1 ha	Nutritional garden with Protein, Vitamin & Iron rich vegetables and fruits on consumers preference throughout the year	Consumption of vegetables/day Availability of vegetable/day												

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	Nutritional gardening for nutritional and livelihood security	01	30	01	Off			25	05			25	05	30

FLD-25	**Demonstration on value addition in Ragi for nutritional security**
Crop	**Ragi and greengram**
Thrust Area	**Nutritional Security**
Thematic Area	**Value Addition**
Season	**Kharif 2019**
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**

1	Ragi and greengram	1 ha	Ragi malt with greengram – malt preparation from germinated green gram and ragi supplemented with 30 % green amaranthus could be adopted as a value added product with better nutritional value	Keeping quality, sensory parameter, nutritional composition												

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	Making low cost food from locally available grains	01	30	01	Off			25	05			25	05	30

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

Name of the Crop / Enterprise	Variety / Type	Period From…… to ……..	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Turmeric	Rajendra sonia	May 19 to Feb 20	02	Seed rhizome	600	3,00,000	7,00,000	4,00,000
Niger	Utkal Niger-150	Aug'18 to Dec'20	01	FS	5.0	15,000	30,000	15,000
Mustard	Sushree	Nov'18 to Jan'20	01	FS	7.0	30,000	70,000	40,000
Vegetable seedlings	-	Round the year	Polyhouse	Seedlings	2,50,000 nos.	90,000	2,50,000	1,60,000
Drumstick	PKM-1	Round the year	Polyhouse	Sapling	5,000 nos.	10,000	75,000	65,000
Papaya	Honey dew	Round the year	Polyhouse	Sapling	1,000 nos.	3,000	10,000	7,000
Mushroom	PSM & Oyster	Round the year	25 x 20 ft	Spawn	2,000 nos.	12,000	24,000	12,000

b) Village Seed Production Programme

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

6. Extension Activities

Sl. No.	Activities/ Sub-activities	No. of activities proposed	Farmers				Extension Officials			Total		
			M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day	25										1250
2.	KisanMela	02										600
3.	KisanGhosthi	10										500
4.	Exhibition	03										1000
5.	Film Show	11										Mass
6.	Method Demonstrations	05										150
7.	Farmers Seminar	02										50
8.	Workshop	01										25
9.	Group meetings	10										200
10.	Lectures delivered as resource persons	20										800
11.	Advisory Services	48										Mass
12.	Scientific visit to farmers field	100										500
13.	Farmers visit to KVK	500										500
14.	Diagnostic visits	25										200
15.	Exposure visits	05										150
16.	Ex-trainees Sammelan	02										100
17.	Soil health Camp	05										150
18.	Animal Health Camp	02										200
19.	Agri mobile clinic	02										300
20.	Soil test campaigns	01										Mass
21.	Farm Science Club Conveners meet	01										20
22.	Self Help Group Conveners meetings	03										100
23.	MahilaMandals Conveners meetings	01										20
24.	Celebration of important days (specify)	06										500
25.	Sankalp Se Siddhi	01										200
26.	Swatchta Hi Sewa	01										1000
27.	Mahila Kisan Diwas	01										50
28.	Any Other (Specify)											
	Total	**793**										**8565**

7. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2019)	Amount proposed to be invested during 2019-2020	Expected Return
2,688.00	**5,00,000.00**	**10,00,000.00**

8. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)

9. On-Farm Trials (OFT)

OFT-1

Sl. No.	Particulars	Details
i.	**Season**	Kharif, 2019
ii.	**Title of the OFT**	**Assessment of INM in off-season cauliflower during Kharif season**
iii.	**Thematic Area**	INM
iv.	**Problem diagnosed**	Low yield of off-season cauliflower due to poor plant growth, small and hollow curds due to inadequate nutrient application
v.	**Important Cause**	The problem spread over 2,200 ha, Yield Gap : 25 – 30 %
vi.	**Production system**	Rain-fed Upland
vii.	**Micro farming system**	Vegetable - Fallow
viii.	**Technology for Testing**	INM in off-season cauliflower during Kharif season
ix.	**Existing Practice**	Application of 1t FYM /ha and fertilizer application @ 60-40-30 kg N-$P_2O_5K_2O$/ha
x.	**Hypothesis**	INM in off-season cauliflower can enhance the yield
xi.	**Objective(s)**	To increase the yield
xii.	**Treatments**	
	a) Farmers Practice (FP)	Application of 1t FYM /ha and fertilizer application @ 60-40-30 kg N-$P_2O_5K_2O$/ha
	b) Technology option-I (TO_1)	Recommend dose of NPK application i.e. 120:60:60 kg/ha
	c) Technology option-II (TO_2)	Soil test based NPK application + FYM @ 5 t/ha
	d) Technology option-III (TO_3)	TO_2 + boron @ 0.5 kg/ha applied at the time of planting and two foliar sprays of borax @ 0.25% at 15 days interval from 30 days after transplanting
xiii.	**Critical Inputs**	Fertilizers
xiv.	**Unit Size**	0.4 ha
xv.	**Total Cost**	Rs. 5,000/-
xvi.	**Monitoring Indicator**	Curd yield (q/ha), Net return (Rs/ha) and BC ratio
xvii.	**Source of Technology**	AICRP on micronutrient OUAT-2014

OFT-2

Sl. No.	Particulars		Details
i.	**Season**		Rabi, 2019-20
ii.	**Title of the OFT**		**Assessment of INM in Garden pea during Rabi season**
iii.	**Thematic Area**		INM
iv.	**Problem diagnosed**		Low yield of off-season cauliflower due to poor plant growth, small and hollow curds due to inadequate nutrient application
v.	**Important Cause**		Spread is 2000 ha with high intensity, Yield Gap : 20 - 25 %
vi.	**Production system**		Irrigated Up & Medium land
vii.	**Micro farming system**		Veg-Veg; Rice-Veg
viii.	**Technology for Testing**		INM in Garden pea during Rabi season
ix.	**Existing Practice**		Application of 1t FYM /ha and fertilizer application @ 30-40-30 kg N-$P_2O_5K_2O$/ha
x.	**Hypothesis**		INM can increase the yield of garden pea
xi.	**Objective(s)**		Yield increase in Garden pea
xii.	**Treatments**		
	a)	Farmers Practice (FP)	Application of 1t FYM /ha and fertilizer application @ 30-40-30 kg N-$P_2O_5K_2O$/ha
	b)	Technology option-I (TO_1)	STBFR + FYM @ 5 t / ha
	c)	Technology option-II (TO_2)	TO_1 + *Rhizobium* seed inoculation @ 20 gm/kg seed
	d)	Technology option-III (TO_3)	TO_2 + Lime @ 0.2 LR at the time of final ploughing
xiii.	**Critical Inputs**		Fertilizers, bio-fertilizers and lime
xiv.	**Unit Size**		0.4 ha
xv.	**Total Cost**		Rs. 5,000/-
xvi.	**Monitoring Indicator**		Green pod yield (q/ha), Net return (Rs/ha) and BC ratio
xvii.	**Source of Technology**		AINP on Soil Bio-diversity - Bio-fertilizers, OUAT-2014

OFT-3

Sl. No.	Particulars		Details
i.	**Season**		Kharif, 2019
ii.	**Title of the OFT**		**Assessment on the performances of improved Ragi varieties during Kharif**
iii.	**Thematic Area**		ICM
iv.	**Problem diagnosed**		Low yield from existing Ragi variety (sana mandia)
v.	**Important Cause**		Spread is 1500 ha, High intensity, Yield Gap : 25 – 30 %
vi.	**Production system**		Rainfed upland,
vii.	**Micro farming system**		Ragi-toria/gram
viii.	**Technology for Testing**		Performances of improved Ragi varieties during Kharif
ix.	**Existing Practice**		Cultivation of local variety Sana mandia of 130 days duration
x.	**Hypothesis**		Varietal substitution with HYVs can increase the yield
xi.	**Objective(s)**		To enhance the yield of ragi
xii.	**Treatments**		
	a)	Farmers Practice (FP)	Cultivation of local variety Sana mandia of 130 days duration
	b)	Technology option-I (TO_1)	Arjun (OEB-526)
	c)	Technology option-II (TO_2)	Kalua (OEB-532)

xiii.	**Critical Inputs**	Seed
xiv.	**Unit Size**	1.0 ha
xv.	**Total Cost**	5,000/-
xvi.	**Monitoring Indicator**	Yield (q/ha), Net return (Rs/ha) and BC ratio
xvii.	**Source of Technology**	Annual Report, OUAT, 2015-16

OFT-4

Sl. No.	**Particulars**	**Details**
i.	**Season**	Kharif, 2019
ii.	**Title of the OFT**	**Assessment of IWM in Groundnut during Kharif**
iii.	**Thematic Area**	IWM
iv.	**Problem diagnosed**	Low yield of Groundnut due to improper weed management at sensitive stages
v.	**Important Cause**	Spread is over 1,000 ha, High intensity, Yield Gap : 20 -25 %
vi.	**Production system**	Rainfed upland
vii.	**Micro farming system**	Groundnut-fallow
viii.	**Technology for Testing**	IWM in Groundnut during Kharif
ix.	**Existing Practice**	Manual weeding
x.	**Hypothesis**	Weeding at sensitive stages can enhance yield of groundnut
xi.	**Objective(s)**	Yield enhancement
xii.	**Treatments**	
	a) Farmers Practice (FP)	One hand weeding at 20-25 DAS
	b) Technology option-I (TO_1)	Pre-emergence application of Pendimethalin @ 2.5 lit/ha within 3 days of sowing & one hand weeding at 20 DAS
	c) Technology option-II (TO_2)	Pre-emergence application of Oxyfluorfen @ 1.0 lit/ha within 3 days after sowing & one hand weeding at 20-25 DAS
	d) Technology option-III (TO_3)	Post-emergence application of Imazethapyr (10% SL) @ 750ml/ha at 20-30 days after sowing
xiii.	**Critical Inputs**	Weedicides
xiv.	**Unit Size**	1.0 ha
xv.	**Total Cost**	2500/-
xvi.	**Monitoring Indicator**	Yield (q/ha) , Net return (Rs/ha) & BC ratio
xvii.	**Source of Technology**	OUAT-2015

OFT-5

Sl. No.	**Particulars**	**Details**
i.	**Season**	Rabi, 2019 - 20
ii.	**Title of the OFT**	**Assessment on optimum plant stand in tissue culture banana during Rabi**
iii.	**Thematic Area**	ICM
iv.	**Problem diagnosed**	Low plant population due to traditional spacing between PXP and RXR which results low productivity
v.	**Important Cause**	Spread is over 900 ha with moderate intensity, Yield gap – 20 %
vi.	**Production system**	Rainfed upland
vii.	**Micro farming system**	Banana
viii.	**Technology for Testing**	Optimum plant stand in tissue culture banana
ix.	**Existing Practice**	Spacing between PXP and RXR = 2.5 m X 2.5m
x.	**Hypothesis**	Following suitable planting geometry, yield will be enhanced

xi.	**Objective(s)**		
xii.	**Treatments**		
	a)	Farmers Practice (FP)	Spacing between PXP and RXR = 2.5 m X 2.5m
	b)	Technology option-I (TO_1)	Spacing between PXP and RXR = 2 m X 2m Grand Naine variety of TC Banana
	c)	Technology option-II (TO_2)	Grand Naine variety of TC Banana with a spacing between paired rows at 1.5 m & plant to plant at 1.5 m
xiii.	**Critical Inputs**		NIL, Only technology
xiv.	**Unit Size**		0.4 ha
xv.	**Total Cost**		-
xvi.	**Monitoring Indicator**		Cost of intervention, Yield/ha, BC ratio
xvii.	**Source of Technology**		Annual Report, NRC Banana, 2013 – 14, OUAT

OFT-6

Sl. No.	**Particulars**		**Details**
i.	**Season**		Rabi, 2019
ii.	**Title of the OFT**		**Assessment of different bell pepper varieties during Rabi season**
iii.	**Thematic Area**		ICM
iv.	**Problem diagnosed**		Low profitability from existing chilli cultivation
v.	**Important Cause**		Problem spread is over 2000 ha with high intensity
vi.	**Production system**		Irrigated Up & Medium land
vii.	**Micro farming system**		Veg-Veg & Rice-Veg
viii.	**Technology for Testing**		Different bell pepper varieties for higher income per unit area
ix.	**Existing Practice**		Cultivation of chilli
x.	**Hypothesis**		Crop substitution with high profile crop will enhance the income per unit area
xi.	**Objective(s)**		To increase income per unit area
xii.	**Treatments**		
	a)	Farmers Practice (FP)	Cultivation of Chilli during Rabi season
	b)	Technology option-I (TO_1)	Bell Pepper variety “Indra”
	c)	Technology option-II (TO_2)	Bell Pepper variety Arka Mohini
xiii.	**Critical Inputs**		Bell pepper seedlings
xiv.	**Unit Size**		0.4 ha
xv.	**Total Cost**		15,000/-
xvi.	**Monitoring Indicator**		Cost of intervention, Yield (q/ha), BC ratio
xvii.	**Source of Technology**		Annual Report TNAU 2015, IIHR, 2016

OFT-7

Sl. No.	**Particulars**	**Details**
i.	**Season**	Kharif 2019
ii.	**Title of the OFT**	**Assessment of collar rot disease management in Groundnut during Kharif**
iii.	**Thematic Area**	IPM
iv.	**Problem diagnosed**	High incidence of collar rot disease
v.	**Important Cause**	Problem spreads over 1100 ha with moderate intensity and the Yield loss is 15 – 20 %

vi.	**Production system**		Rain-fed upland
vii.	**Micro farming system**		Groundnut - Fallow
viii.	**Technology for Testing**		Management of collar rot in ground nut
ix.	**Existing Practice**		No or improper management practice followed
x.	**Hypothesis**		Integrated disease management practice can enhance the yield of ground nut
xi.	**Objective(s)**		To enhance the yield
xii.	**Treatments**		
	a)	Farmers Practice (FP)	Using inappropriate chemicals or no suitable management measures followed
	b)	Technology option-I (TO_1)	Seed treatment with Carboxin 37.5% + Thiram 37.5 % (Vitavax power) @ 2.5 gm/kg seeds during sowing and need-based spraying of Chlorothalonil 75% WP @ 1.5 gm/lt. and Carbendazim @ 2 gm/lt alternatively at 15 days interval
	c)	Technology option-II (TO_2)	Seed treatment with Tebuconazole @ 1.5 g/kg followed by furrow application of *T. viride* @ 4kg incubated in 50 kg FYM/ha at sowing, broadcasting of *T. viride* @ 4kg incubated in 250kg FYM/ha at 40 DAS & 2 sprays of Tebuconazole @ 1ml/lit. starting from initiation of the diseases and after 15 days
xiii.	**Critical Inputs**		PP chemicals
xiv.	**Unit Size**		0.4 ha
xv.	**Total Cost**		2,500/-
xvi.	**Monitoring Indicator**		Yield (Q/ha); Net return (Rs/ha) and BC ratio
xvii.	**Source of Technology**		OUAT, 2016

OFT-8

Sl. No.	**Particulars**		**Details**
i.	**Season**		Kharif 2019
ii.	**Title of the OFT**		**Assessment of Rhizome rot management in Ginger during Kharif**
iii.	**Thematic Area**		IPM
iv.	**Problem diagnosed**		Low yield due to high incidence of Rhizome rot disease
v.	**Important Cause**		Problem spreads over 3,200 ha with very high intensity and the Yield loss is >50 %
vi.	**Production system**		Rainfed upland
vii.	**Micro farming system**		Ginger
viii.	**Technology for Testing**		Management of rhizome rot in ginger
ix.	**Existing Practice**		No or improper management practices followed
x.	**Hypothesis**		Rhizome rot management can enhance the yield
xi.	**Objective(s)**		To enhance the yield
xii.	**Treatments**		
	a)	Farmers Practice (FP)	Using inappropriate chemicals or no suitable management measures
	b)	Technology option-I (TO_1)	Seed rhizome solarization for 2 – 3 hours under hot sun before planting; application of FYM incubated with *T. viride* (@ 1kg/100 kg FYM) as band placement at planting
	c)	Technology option-II (TO_2)	Rhizome treatment with Metalaxyl MZ 72 % @ 0.2% + Streptocylin 0.015% for 30 min at the time of sowing and soil drenching with the same at 45 and 90 Days after sowing
xiii.	**Critical Inputs**		PP chemicals and bio-control agents
xiv.	**Unit Size**		1.0 ha
xv.	**Total Cost**		5,000/-

xvi.	**Monitoring Indicator**	Yield (Q/ha); Net return (Rs/ha) and BC ratio
xvii.	**Source of Technology**	OUAT, 2018

OFT-9

Sl. No.	Particulars	Details
i.	**Season**	Kharif 2019
ii.	**Title of the OFT**	**Assessment of Bullock drawn puddler for puddling in Rice during Kharif**
iii.	**Thematic Area**	FMP
iv.	**Problem diagnosed**	High labour cost and time involved in puddling
v.	**Important Cause**	Problem spreads over 22,000 ha with high intensity
vi.	**Production system**	Rainfed-medium land
vii.	**Micro farming system**	Rice-fallow
viii.	**Technology for Testing**	Bullock drawn puddler for drudgery reduction and time saving
ix.	**Existing Practice**	Use of country plough
x.	**Hypothesis**	By using bullock drawn puddler can save time & energy, reduce drudgery and cost of cultivation
xi.	**Objective(s)**	To save time and cost
xii.	**Treatments**	
	a) Farmers Practice (FP)	Puddling with desi plough
	b) Technology option-I (TO_1)	Puddling with bullock drawn OUAT MB plough
	c) Technology option-II (TO_2)	Puddling with bullock drawn OUAT puddler
xiii.	**Critical Inputs**	OUAT MB plough and OUAT Puddler
xiv.	**Unit Size**	1.0 ha
xv.	**Total Cost**	5,000/-
xvi.	**Monitoring Indicator**	Cost of intervention. Additional income over additional investment, Yield (q/ha), B:C ratio
xvii.	**Source of Technology**	AICRP on UAE, OUAT , 2015

OFT-10

Sl. No.	Particulars	Details
i.	**Season**	Rabi, 2019-20
ii.	**Title of the OFT**	**Assessment of Bullock drawn seed cum fertilizer drill in Maize during Rabi**
iii.	**Thematic Area**	FMP
iv.	**Problem diagnosed**	Intensive labour, high cost of cultivation
v.	**Important Cause**	Problem spreads over 8,800 ha with high intensity
vi.	**Production system**	Rainfed upland
vii.	**Micro farming system**	Maize-fallow, Maize-Toria
viii.	**Technology for Testing**	Use of seed-cum-fertilizer drill in Maize
ix.	**Existing Practice**	Sowing behind plough
x.	**Hypothesis**	Mechanized sowing and fertilizer application can reduce cost and labor
xi.	**Objective(s)**	To reduce the cost of labour, time and cost by mechanization
xii.	**Treatments**	
	a) Farmers Practice (FP)	Sowing behind the plough

	b)	Technology option-I (TO_1)	Single row seed cum fertilizer drill
	c)	Technology option-II (TO_2)	5 row seed cum fertilizer drill
xiii.	**Critical Inputs**		Bullock drawn 5 row seed-cum-fertilizer drill
xiv.	**Unit Size**		1.0 ha
xv.	**Total Cost**		5,000/-
xvi.	**Monitoring Indicator**		Cost of intervention, Yield (q/ha), B:C ratio,
xvii.	**Source of Technology**		AICRP on UAE, CAET, OUAT, 2014

OFT-11

Sl. No.	Particulars		Details
i.	**Season**		Rabi, 2019-20
ii.	**Title of the OFT**		**Assessment of yield performance of different varieties of oyster mushroom during Rabi season**
iii.	**Thematic Area**		ICM
iv.	**Problem diagnosed**		Low yield of oyster mushroom due to low temperature
v.	**Important Cause**		Very high intensity of the problem and almost 100 % area is under this problem
vi.	**Production system**		Homestead
vii.	**Micro farming system**		Under shed condition
viii.	**Technology for Testing**		Testing the performance of different varieties of Oyster mushroom
ix.	**Existing Practice**		Cultivation of oyster mushroom *var. Pleurotus sajorcaju*
x.	**Hypothesis**		By altering the strain and species of Oyster mushroom can enhance the yield and quality
xi.	**Objective(s)**		To enhance the yield
xii.	**Treatments**		
	a)	Farmers Practice (FP)	Cultivation of oyster mushroom *var. Pleurotus sajorcaju*
	b)	Technology option-I (TO_1)	Cultivation of oyster mushroom *var. Pleurotus ostreatus*
	c)	Technology option-II (TO_2)	Cultivation of oyster mushroom *var. Hypsizygus ulmarius*
xiii.	**Critical Inputs**		Spawn
xiv.	**Unit Size**		10 units with 25 bed capacity
xv.	**Total Cost**		3,000/-
xvi.	**Monitoring Indicator**		Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio,
xvii.	**Source of Technology**		CTMRT, OUAT 2011

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.)

11. No. of success stories proposed to be developed with their tentative titles : 02

Sl No	Title
1	Livelihood and nutritional security through nutritional gardening by tribal women
2	Higher income generation by cultivating exotic vegetables

12. Scientific Advisory Committee

Date of SAC meeting held during 2018-19	Proposed date during 2019-2020
22.12.2018	**15.12.2019**

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	1000	50	20	800	130	00	00	850	150	1000	25	1500
Water Samples												
Other (Please specify)												
Total	1000	50	20	800	130	00	00	850	150	1000	25	1500

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to 31.03.2019	Expected fund requirement (Rs.)
Salary	48,02,553.00	60,00,000.00
T.A	67,500.00	1,50,000.00
Contingency	16,27,150.65	18,00,000.00
Non - Recurring	7,43,000.00	15,00,000.00
Total	**72,40,203.65**	**88,50,000.00**

* 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