

ANNUAL ACTION PLAN

2019-20

KVK, JAJPUR



OUAT, BHUBANESWAR



REVISED PROFORMA FOR ACTION PLAN 2019-2020

1. Name of the KVK: JAJPUR

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2. Name of host organization :

Address	Telephone		E mail
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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
I. Crop production														
IWM	Integrated weed management in rice	1	1	Off	20.07.19	2	-	-	-	23	-	25	-	25
ICM	Nursery management for quality rice seedling production	1	1	Off	25.07.19	1	-	-	-	24	-	25	-	25
INM	Use of LCC for effective nitrogen Management in rice	1	1	Off	19.08.2019	-	-	-	-	25	-	25	-	25
ICM	Cultivation of fodder grass hybrid Napier	1	1	Off	12.09.2019	2	1	-	-	22	-	24	1	25
INM	Management of problematic soil for higher yield and sustainability	1	1	Off	12.10.2019	-	-	-	-	25	-	25	-	25
ICM	Inter cropping for higher yield and sustainability	1	1	Off	17.11.2019	-	-	-	-	25	-	25	-	25
ICM	Integrated Farming system for	1	1	Off	15.12.2019	-	-	-	-	25	-	25	-	25

	livelihood security													
ICM	Low cost vermicompost production in backyard	1	1	Off	10.01.2020	-	-	-	-	25	-	25	-	25
ICM	Cultivation of stress tolerant rice varieties to mitigate climate change	1	1	Off	11.01.2020	1	-	-	-	24	-	25	-	25
IWM	Integrated weed management in groundnut	1	1	Off	26.01.2020	2	1	-	-	22	-	24	1	25
IWM	Integrated weed management in pulse crops (greengram,blackgram)	1	1	Off	29.01.2020	2	1	-	-	22	-	24	1	25
IWM	Integrated weed Management in sugarcane	1	1	Off	08.02.2020	-	2	-	-	22	1	22	3	25

II. SOIL HEALTH & FERTILITY MANAGEMENT

Soil fertility management	Technique of soil sample collection	1	1	Off	28.06.2019	2	1	-	-	22	-	24	1	25
INM	Green manuring in paddy	1	1	Off	9.07.2019	1	1	-	-	23	-	24	1	25
INM	Boron deficiency and its control measures in rice	1	1	Off	14.08.2019	3	-	-	-	21	1	24	1	25
INM	Micronutrient deficiency & its control measures in vegetable	1	1	Off	12.09.2019	2	1	-	-	22	-	24	1	25
INM	Bio-fertilizer application in Vegetable	1	1	Off	10.10.2019	1	-	-	-	23	1	24	1	25
INM	Micronutrient deficiency & its control measures in vegetable	1	1	Off	20.11.2019	-	-	-	-	23	2	23	2	25
Soil fertility management	Method lime application in groundnut	1	1	Off	28.11.2019	1	-	-	-	23	1	24	1	25
INM	INM in okra	1	1	Off	26.12.2019	-	-	-	-	25	-	25	-	25

INM	INM in Onion	1	1	Off	19.12.2019	-	-	-	-	25	-	25	-	25
INM	Nutrient supplementation through water soluble fertilizer in tomato	1	1	Off	5.01.2020	-	-	-	-	20	5	20	5	25
INM	Nutrient supplementation through foliar application in greengram	1	1	Off	18.01.2020	1	-	-	-	23	1	24	1	25
Soil fertility management	Management of acid soil	1	1	Off	13.02.2020	-	-	-	-	20	5	20	5	25
III. Horticulture														
Cultivation of vegetable	Biological control of brinjal fruit shoot borer	1	1	Off	26.06.19	1	2	-	-	22	-	23	2	25
Yield increment	Major diseases & pest of solanaceous crops & their control measures	1	1	Off	9.07.19	-	2	-	-	22	1	22	3	25
Cultivation of Fruit	Production techniques and post harvest handling of potato	1	1	Off	13.11.19	-	-	-	-	24	1	24	1	25
Yield increment	Production techniques of sweet potato and its value addition	1	1	Off	26.11.19	-	-	-	-	21	4	21	4	25
Cultivation of vegetable	Bio-fertilizer and their application in cole crops	1	1	Off	16.10.19	3	1	-	-	18	3	21	4	25
Production and management technology	Improved production techniques of cole crops	1	1	Off	23.11.19	1	2	-	-	22	-	23	2	25
INM	Integrated nutrient management in marigold	1	1	Off	30.10.19	-	2	-	-	22	1	22	3	25
INM	Important medicinal plants and their uses	1	1	Off	6.08.19	4	-	-	-	20	1	24	1	25

INM	Cultivation techniques of papaya	1	1	Off	14.8.19	5	-	-	-	20	-	25	-	25
Cultivation of vegetable	Cultivation techniques of T.C Banana	1	1	Off	6.9.19	-	2	-	-	22	1	22	3	25
Cultivation of vegetable	Cultivation techniques of tomato	1	1	Off	26.9.19	-	-	-	-	24	1	24	1	25
IV. Agricultural Engineering														
Repair and maintenance of farm machinery and implements	Use of different weeders in rice	1	1	Off	17.8.19	-	-	-	-	25	-	25	-	25
Repair and maintenance of farm machinery and implements	Use of rotavator for dry ploughing	1	1	Off	18.10.19	-	3	-	-	22	-	22	3	25
Repair and maintenance of farm machinery and implements	Use and operation of multicrop seed cum fertilizer drill	1	1	Off	5.9.19	-	-	-	-	25	-	25	-	25
Repair and maintenance of farm machinery and	Care and safety measures during operation of implements	1	1	Off	17.7.19	-	-	-	-	21	4	21	4	25

implements														
Repair and maintenance of farm machinery and implements	Use of rice transplanter	1	1	Off	25.6.19	-	-	-	-	22	3	22	3	25
Installation and maintenance of micro irrigation system	Use of sprinkler irrigation	1	1	Off	10.1.20	-	-	-	-	20	5	20	5	25
Installation and maintenance of micro irrigation system	Use of mulching in vegetables	1	1	Off	12.12.19	-	-	-	-	21	4	21	4	25
Installation and maintenance of micro irrigation system	Utility of micro irrigation	1	1	Off	18.9.19	-	-	-	-	21	4	21	4	25
Drudgery reduction	Use of different small implements for farm women	1	1	Off	30.8.19	-	2	-	-		23	-	25	25
Repair and maintenance of farm	Use of groundnut digger	1	1	Off	8.3.20	1	1	-	-	23	-	24	1	25

machinery and implements														
Post harvest technology	Use of pulse thresher	1	1	Off	21.3.20	-	-	-	-	22	3	22	3	25
Post harvest technology	Utility of dal mill and required pre-treatment	1	1	Off	25.2.20	-	-	-	-	20	5	20	5	25
V. Women in Agriculture														
Value addition	Preparation of ready to use mixes	1	1	Off	16.7.19	-	-	-	-	-	25	-	25	25
Value addition	Preparation of mango RTS squash	1	1	Off	12.6.19	-	4	-	-	-	21	-	25	25
Income generation activities for empowerment of rural women	Care & management practices in backyard poultry rearing	1	1	Off	14.8.19	-	-	-	-	-	25	-	25	25
Location specific drudgery reduction technology	Use of women friendly implements in groundnut cultivation.	1	1	Off	12.3.20	-	5	-	-	-	20	-	25	25
Enterprise development	Cultivation of paddy straw mushroom	1	1	Off	9.7.19	-	5	-	-	-	20	-	25	25
Value addition	Preparation of tomato concentrate & mix vegetable pickle	1	1	Off	15.1.20	-	5	-	-	-	20	-	25	25
Women and	Preparation of low cost baby foods	1	1	Off	24.9.19	-	5	-	-	-	20	-	25	25

child care	from cereal & pulses													
House hold food security by kitchen gardeni ng and nutrition gardeni ng	Planning, layout and development of nutritional garden	1	1	Off	6.11.19	-	-	-	-	-	25	-	25	25
Storage loss minimiz ation techniqu e	Storage of pulses by different method	1	1	Off	17.2.20	-	-	-	-	-	25	-	25	25
Enterpri se develop ment	Off season mushroom cultivation in poly house	1	1	Off	12.9.19	-	-	-	-	-	25	-	25	25
Value addition	Value addition in lemon	1	1	Off	20.8.19	-	-	-	-	-	25	-	25	25
Income generati on activitie s for empowe rment of rural women	Preparation of chips from colocasia& potato	1	1	Off	19.10.19	-	-	-	-	-	25	-	25	25
VI. Agril. Extension														
CBD	Farming system approach	1	1	Off	20.07.2019	3	-	-	-	22	-	25	-	25
CBD	Farming system approach	1	1	Off	31.07.2019	2	-	-	-	23	-	25	-	25
CBD	Formation and management of farmers club	1	1	Off	17.08.19	3	-	-	-	22	-	25	-	25
CBD	Formation and management of farmers club	1	1	Off	12.9.19	5	-	-	-	20	-	25	-	25
CBD	Formation and management of farmers producer	1	1	Off	12.07.2019	5	-	-	-	20	-	25	-	25

	group													
CBD	Organic farming and its role in sustainable development	1	1	Off	6.11.19	2	-	-	-	23	-	25	-	25
CBD	Climate resilient technology for sustainable development	1	1	Off	20.11.19	1	-	-	-	24	-	25	-	25
CBD	Formation and management of farmers producer group	1	1	Off	21.12.2019	5	-	-	-	20	-	25	-	25
CBD	Role and importance of ICT in agricultural development	1	1	Off	10.01.2020	5	-	-	-	20	-	25	-	25
CBD	Role and importance of ICT in agricultural development	1	1	Off	19.01.20	4	-	-	-	21	-	25	-	25
CBD	Alternative livelihood options for resource poor farm family	1	1	Off	23.02.2020	3	-	-	-	22	-	25	-	25
CBD	Alternative livelihood options for resource poor farm family	1	1	Off	16.03.2020	4	-	-	-	21	-	25	-	25

(b) Rural youths

Thematic area	Title of Training	No .	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
I. Crop production														
ICM	Integrated Farming System for Livelihood security	1	2	On	16.12.19 & 17.12.19	2	-	-	-	13	-	15	-	15
ICM	Organic farming for higher income	1	2	On	09.01.20 &	-	-	-	-	15	-	15	-	15

	and sustainability				10.01.20									
II. Soil Health and fertility Management														
ICM	Azolla production technique	1	2	On	18.09.19 & 19.09.19	3	2	-	-	8	2	11	4	15
Soil fertility management	Method of vermicomposting	1	2	On	14.10.19 & 15.10.19	1	1	-	-	13	-	14	1	15
III. Horticulture														
Cultivation of flower	Commercial marigold cultivation	1	2	On	17.9.19 & 18.9.19	2	2	-	-	5	6	7	8	15
Nursery raising	Improved method of seedling production technique	1	2	On	23.10.19 & 24.10.19	-	3	-	-	6	6	6	9	15
IV. Agril. Engg.														
Value addition	Value addition of milk	1	2	On	11.9.19 & 12.9.19	-	4	-	-	-	11	-	15	15
Installation and maintenance of micro irrigation system	Importance and installation of drip irrigation system for vegetable cultivation	1	2	On	29.10.19 & 30.10.19	-	-	-	-	12	3	12	3	15
V. Women in Agriculture														
Location specific drudgery reduction technology	Weeding operations of vegetables by using small garden tools	1	2	On	18.12.19 & 19.12.19	-	5	-	-	-	10	-	15	15
Value addition	Value addition of groundnut such as chiki, ladu and groundnut milk	1	2	On	19.3.20 & 20.3.20	-	-	-	-	-	15	-	15	15

VI. Agril. Extension														
CBD	Entrepreneurship development	1	2	Off	17.12.19 & 18.12.19	2	-	-	-	11	2	13	2	15

(c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Water management	Water management for Higher crop water productivity	1	1	On	19.01.20	-	4	-	-	-	11	-	15	15
ICM	Contingency planning for crop production under changing climate	1	1	On	17.02.20	1	1	-	-	13	-	14	1	15

II. Soil Health and Fertility management

Soil fertility management	Management of problematic soil	1	1	On	28.08.19	2	2	-	-	5	6	7	8	15
Soil fertility management	Use of soil test kit (Mridaparikhyak)	1	1	On	29.11.19	-	3	-	-	6	7	9	6	15

III. Horticulture

Protected cultivation	Protective cultivation of vegetables	1	1	On	18.12.19	2	-	-	-	8	5	10	5	15
Flower cultivation	Modern techniques in flower cultivation to increase production and quality	1	1	On	15.1.20	-	3	-	-	6	6	6	9	15

IV. Agril. Engg.

Installation and maintenance of micro	Importance of micro irrigation in agriculture	1	1	On	23.9.19	-	3	-	-	-	12	-	15	15
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irrigation system														
Repair and maintenance	Use of improved machineries in agriculture	1	1	On	22.11.19	-	-	-	-	12	3	12	3	15
V. Women in Agriculture														
Nutritional security	Preparation of Nutri guide for different age groups.	1	1	On	21.8.19	-	4	-	-	-	11	-	15	15
Drudgery reduction	Use of women friendly implements for reducing drudgery of farm women	1	1	On	29.10.19	-	-	-	-	-	15	-	15	15
VI. Agril Extension														
CBD	Market led extension	1	1	On	27.12.19	2	-	-	-	11	2	13	2	15
CBD	Agri value chain analysis	1	1	On	10.1.2020	-	-	-	-	15	-	15	-	15

Abstract of Training: Consolidated table (ON and OFF Campus)

Farmers and Farm women (Off Campus)

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	M	F	T
I. Crop Production													
Weed Management	4	78	22	100	12	9	21	-	-	-	78	22	100
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management	6	123	27	150	18	8	26	-	-	-	123	27	150
Fodder production													
Production of organic inputs													
Others, (cultivation of crops) INM	2	42	8	50	2	2	4	-	-	-	42	8	50
TOTAL	12	243	57	300	32	19	51	-	-	-	243	57	300
II. Horticulture													

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	M	F	T
a) Vegetable Crops													
Integrated nutrient management	3	53	22	75	10	5	15	-	-	-	53	22	75
Water management													
Enterprise development													
Skill development													
Yield increment	2	35	15	50	-	-	-	-	-	-	35	15	50
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising	1	25	-	25	-	-	-	-	-	-	25	-	25
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)	5	100	25	125	11	5	16	-	-	-	100	25	125
TOTAL	11	213	62	300	21	10	31	-	-	-	213	62	300
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit	1	25	-	25	-	-	-	-	-	-	25	-	25
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
TOTAL	1	25	-	25	-	-	-	-	-	-	25	-	25
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
TOTAL													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management	2	41	9	50	2	1	3	-	-	-	41	9	50
Soil and Water Conservation													
Integrated Nutrient Management	10	200	50	250	34	12	46	-	-	-	200	50	250
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
TOTAL	12	241	59	300	36	13	49	-	-	-	241	59	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	2	-	50	50	-	-	-	-	-	-	-	50	50
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	1	-	25	25	-	-	-	-	-	-	-	25	25
Enterprise development	2	-	50	50	-	10	10	-	-	-	-	50	50

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			
Value addition	4	-	100	100		25	25	-	-	-	-	100	100
Income generation activities for empowerment of rural Women	2	-	50	50	-	10	10	-	-	-	-	50	50
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care	1	-	25	25	-	-	-	-	-	-	-	25	25
Others, if any													
TOTAL	12	-	300	300	-	45	45	-	-	-	-	300	300
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	2	45	5	50	-	-	-	-	-	-	45	5	50
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements	7	158	17	175	17	8	25	-	-	-	158	17	175
Small scale processing and value addition													
Post Harvest Technology	2	25	25	50	10	2	12	-	-	-	25	25	50
Others, if any (Drudgery reduction)	1	24	1	25	-	-	-	-	-	-	24	1	25
TOTAL	12	252	48	300	17	10	37	-	-	-	252	48	300
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
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													

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													
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													
X. Capacity Building and Group Dynamics													
Leadership development	2	50	-	50	-	-	-	-	-	-	50	-	50
Group dynamics	8	176	24	200	-	-	-	-	-	-	176	24	200
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths	2	40	10	50	8	2	10	-	-	-	40	10	50
WTO and IPR issues													
Others, if any													
TOTAL	12	266	34	300	8	2	10	-	-	-	266	34	300
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL	72	1240	560	1825	114	99	223				1240	560	1800

Rural youth (On campus)

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	1	13	-	13	2	-	2	-	-	-	15	-	15
Seed production	3	30	6	36	6	3	9	-	-	-	36	9	45
Production of organic inputs	1	15	-	15	-	-	-	-	-	-	15	-	15
Planting material production	1	5	6	11	2	2	4	-	-	-	7	8	15
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production	1	15	-	15	-	-	-	-	-	-	15	-	15
Repair and maintenance of farm machinery and implements	1	-	-	-	-	-	-	12	3	15	12	3	15
Nursery Management of Horticulture crops	1	6	6	12	-	3	3	-	-	-	6	9	15
Training and pruning of orchards													
Value addition	2	-	22	22	-	8	8	-	-	-	-	30	30
Production of quality animal products													
Dairying													
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													

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			
Enterprise development													
Others if any (ICT application in agriculture)	1	13	2	15	-	-	-	-	-	-	13	2	15
TOTAL	11	99	44	143	10	17	27	-	-	-	119	61	180

Extension functionaries (On campus)

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	12	1	13	2	-	2	-	-	-	14	1	15
Integrated Pest Management	1	15	-	15	-	-	-	-	-	-	15	-	15
Integrated Nutrient management	2	23	7	30	-	-	-	-	-	-	23	7	30
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology	1	10	2	12	1	2	3	-	-	-	11	4	15
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application	2	25	5	30	-	-	-	-	-	-	25	5	30
Care and maintenance of farm machinery and implements	1	10	1	11	4	-	4	-	-	-	14	1	15
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	1	13	-	13	-	2	2	-	-	-	13	2	15
Production and use of organic inputs	1	15	-	15	-	-	-	-	-	-	15	-	15

Gender mainstreaming through SHGs													
Crop intensification													
Others if any (Drudgery reduction)	1	-	15	15	-	-	-	-	-	-	-	15	15
Flower cultivation	1	8	2	10	3	2	5	-	-	-	11	4	15
TOTAL	12	131	33	164	10	6	16				141	39	180

4. Frontline demonstration to be conducted*

1.

Crop: Groundnut

Thrust Area: IWM

Thematic Area: IWM

Season: Rabi-2019

Farming Situation: Irrigated, medium land

2.

Crop: Maize

Thrust Area: INM

Thematic Area: INM

Season: Kharif-2019

Farming Situation: Irrigated, medium land

3.

Crop: Paddy

Thrust Area:

Thematic Area:

Season: Summer-2019

Farming Situation: Irrigated, medium land

4.

Crop: Sugarcane

Thrust Area: INM

Thematic Area: INM

Season: Rabi-2019-20

Farming Situation: Irrigated, medium land

5.

Crop: Rice

Thrust Area: INM

Thematic Area: INM

Season: Kharif-2019

Farming Situation: Irrigated, medium land

6.

Crop: Onion
Thrust Area: INM
Thematic Area: INM
Season: Rabi-2019 -20
Farming Situation: Irrigated, medium land

7.

Crop: Tomato
Thrust Area:
Thematic Area:
Season: Rabi-2019 -20
Farming Situation: Irrigated, medium land

8.

Crop: Okra
Thrust Area: INM
Thematic Area: INM
Season: Rabi-2019 -20
Farming Situation: Irrigated, medium land

9.

Crop: Brinjal
Thrust Area: Pest management
Thematic Area: pest management
Season: Kharif-2019
Farming Situation: Irrigated, medium land

10.

Crop: Tomato
Thrust Area: Varietal substitution
Thematic Area: Varietal substitution
Season: Rabi-2019-20
Farming Situation: Irrigated, medium land

11.

Crop: Okra
Thrust Area: IPM
Thematic Area: IPM
Season: Rabi-2019-20

Farming Situation: Irrigated, medium land

12.

Crop: Potato

Thrust Area: vegetable cultivation

Thematic Area: Vegetable cultivation

Season: Rabi-2019-20

Farming Situation: Irrigated, medium land

13.

Enerprize: Power weeder

Thrust Area: Farm mechanisation

Thematic Area: Farm mechanisation

Season: Kharif-2019

Farming Situation: Irrigated, medium land

14.

Crop: Groundnut

Thrust Area: Farm mechanisation

Thematic Area: Farm mechanisation

Season: Rabi-2019-20

Farming Situation: Irrigated, medium land

15.

Crop: cabbage

Thrust Area: Farm mechanisation

Thematic Area: Farm mechanisation

Season: Rabi-2019-20

Farming Situation: Irrigated, medium land

16.

Enterprize: Tractor drawn rotavator

Thrust Area: Farm mechanisation

Thematic Area: Farm mechanisation

Season: Rabi-2019-20

Farming Situation: Irrigated, medium land

17.

Crop: Vegetable

Thrust Area: Nutritional garden
Thematic Area: Nutritional garden
Season: Round the year-2019-20
Farming Situation: Home stead

18.

Enterprize: Poultry
Thrust Area: Income generation
Thematic Area: Income generation
Season: Round the year-2019-20
Farming Situation: Backyard

19. Crop: Mango

Thrust Area: Value addition

Thematic Area: Value addition

Season: Kharif, 2019

Farming Situation: Rainfed upland

20.

Enterprise: Mushroom

Thrust Area: Income generation

Thematic Area: Income generation

Season: Rabi, 2019-20

Farming Situation: Home stead

21.

Crop: Tomato

Thrust Area: Income generation

Thematic Area: Income generation

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	Groundnut	1 ha	Use of post emergence herbicide Imazethapyr @750 ml/ha at 20 DAS	No pods/plant, no of branches/plant, pod wt Weed control efficiency, Yield (q/ha), B:C ratio	herbicide Imazethapyr	40000	38000	-	-	-	-	5	-	5	-	5
2	Maize	1 ha	Application of N:P:K:B:Zn @ 150:75:60:1:5 kg ha-1 + Lime 0.1 LR + FYM @ 5 t ha	Plant ht, cob length and weight, Grain wt	Nitrogen, Phosphorus, Pottasium, Zinc and Boron	35000	33000	1	-	-	-	4	-	5	-	5
3	Rice	1 ha	Satyabhama(CR 2340-11): It is an early duration (105-110 days) variety. It has medium slender grains and tolerance to glume discoloration. It has productivity of 4.7 t/ha under favorable	No tillers/hill, panicle length, grain wt	HYV rice var. Satyabhama	38000	37500	-	-	-	-	5	-	5	-	5

			conditions. It shows resistance to major pests viz., yellow stem borer, leaf folder and moderate resistant to leaf blast, rice tungro virus, brown plant hopper, gall midge, hispa and thrips													
4	Sugarcane	1 ha	Soil test based fertilizer application in sugarcane @ 315:100:60 kg N:P2O5:K2O+60 kg elemental S/ha recorded highest cane yield of 81.44 t/ha and was most remunerative.	Cane length, cane wt Yield (q/ha), B:C ratio,	N:P2O5:K2O , Soil test based fertilizer	70000	67000	-	1	-	-	4	1	4	1	5
5	Rice	1 ha	75% N (Chemical fertilizer) + Green Mannuring + full dose of P & K (Chemical fertilizer)	Chemical fertilizer) + Green Mannuring + full dose of P & K	No tillers/hill, panicle length	37500	36000	1	1	-	-	3	1	4	1	5
6	Onion	1 ha	Application of sulphur as basal dose alongwith	Sulphur, STBF	Bulb size, bulb dia.	46000	45000	2	-	-	-	3	-	5	-	5

			STBF (120-60-100 NPK kg /ha)													
7	Tomato	1 ha	Application of water soluble fertilizer(19:19:19) in Tomato @ 5 g/litre at 30 &45 DAT	water soluble fertilizer	No of fruits/plant,F ruit wt	44000	43000	-	-	-	-	3	2	3	2	5
8	Okra	1 ha	Application of 150 kg. Nitrogen, 50 kg. Phosphorous, 75 kg. Potash, Azotobactor, Azospirilum, PSB @ 4 kg. each and soil application of borax 10 kg. per ha	Potash, Nitrogen, Phosphorous	No of fruits/plant,f ruit size	42000	40000	1	2	-	-	2	-	3	2	5
9	Brinjal	0.4	Pheromone trap @1 for 400 sq.m. + weekly release of 50,000 to 60,000 <i>Trichogramma chilonis</i> + two sprays of BT @1ml/L at 10 days interval at peak flowering	Pheromonetrap , <i>Trichogramma chilonis</i>	% pest incidence, % fruit infestation, wt. of individual fruit, no. of fruits/plant	46200	40100	-	-	-	-	4	1	4	1	5
10	Tomato	0.4	Cultivation of tomato variety Arka Rakshak with	Tomato seedling	No. of fruits/plant, vine length, wt. of fruit,	44800	41200	-	-	-	-	4	1	4	1	5

			recommended package of practices, planting Oct-Nov, spacing- 2.5 ft X 2.5 ft. , 9900 seedling/ha , fertilizer - 150:120:150 kg/ha		% of infected fruit											
11	Okra	0.4	ST by imidacloprid @ 5 g /kg +YST installation + Acetamiprid 20 SP spray @ 3g/ltr water (or triazophos 40 EC @ 2ml/ltr water or difenthiuron 50 % WP @ 1g/ltr water)	Imidacloprid, Acetamiprid	% Infestation ,Fruit length, diameter & weight, Yield(ctl/ha), B:C ratio	42000	39000	-	-	-	-	2	3	2	3	5
12	Potato	0.4	Yield potential 250-300q/ha, early variety,duration-75 days, heat tolerant, good cooking quality, good appearance with STBF	Potato seedlings	No. of tubers/plant, individual tuber wt., diameter of tuber	46500	45400	-	-	-	-	5	-	5	-	5
13	Rice	1 ha	Suitable for weeding in line transplanted paddy crops, 1st		Field capacity(ha/h), weeding efficiency(%)	29700	28700	1	-	-	-	4	-	5	-	5

			weeding after 12-15 days of transplanting, 2 nd weeding 25-30 days, weeding capacity: 0.075ha/h), Labour required (mandays/ha), B:C ratio											
14	Groundnut	1 ha	Tractor drawn Multi crop Seed cum fertilizer drill with cup feed metering mechanism for sowing, Field capacity – 0.4ha/h	Tractor drawn Multi crop Seed cum fertilizer	Field capacity(ha/h), Fuel consumption (lit/ha), cost of operation(Rs/ha),	33961	35211	-	-	-	-	4	1	4	1	5
15	cabbage	0.2 ha	Installation of inline drip with a spacing of 40/60 cm between dripper of capacity 2 lph with plastic mulching	Plastic mulching	Weed count (no/m ²), irrigation water use efficiency (kg/ha-cm),	68300	59250	2	-	-	-	3	-	5	-	5
16	Potato	1 ha	Consisting of a rotary unit, steel frame, 3-point hitch system, a rotary shaft on which blades are mounted. The blades are of 'L' shape. A good		Field capacity(ha/h), Fuel consumption(lit/ha), cost of operation(Rs/ha), depth of tillage (cm), effective	45400	46600	-	2	-	-	3	2	3	2	5

			pulverization of the soil is achieved with single pass of Rotavator, Field Capacity – 0.4ha/h		operating width (cm),											
17	Fruits and vegetable	13 nos.	Nutritional gardening in proper layout(area 20mx10m) for 4-6 family members growing all types of vegetables such as GLV, root and tubers, yellow vegetables, and other vegetables along with planting of drumstick, lime and fruits plant like papaya and banana for getting available nutrition round	Vegetable seedlings	Consumption of vegetables/day - gm/day, Yield-kg/sq.mt ,Availability of vegetable/day	-	-	-	-	-	-	-	10	-	10	10
18	Poultry	10	Rearing of dual purpose poultry bird “Rainbow Rooster”, body weight 1220 g/ 20weeks, egg laying capacity 160 nos of egg/	Poultry breed Rainbow rooster	Body wt./month, No. of eggs produced/year, Net return	60/bird	50/bird	2	-	-	-	1	2	3	2	5

			year													
19	Mango	5 nos.	Juice preparation, squash preparation, leather preparation, Peeling, cutting, pulping (streaming in 0.5 mm) 20% mango pulp with addition of sugar (15%) water 65% with TSS 15% for RTS Pulp with SS (1kg sugar in 750 ml water) & KMS (150 ppm), citric acid 25-30 gm for squash Mango pulp (1 kg) addition of KMS @ 2gm/kg of pulp, spread the pulp on trays for sundrying , cut into pieces and wrapped in button paper.	Citric acid, Mango, sugar	Keeping quality in days, shelf life	-	-	-	-	-	-	-	5	-	5	5
20	Mushroom	5 nos.	Blanching of Oyster mushroom for 3 min with addition of 0.5% KMs followed by dried at 40 ⁰ C for 10 hrs (8% moisture	Oyster mushroom	Shelf life B:C Ratio	25	25	-	-	-	-	-	5	-	5	5

			content) then grinded to powder													
21			Production packages will be divided into different segments and short videos will be produced and disseminated through whatsapp		Understanding the method and process depicted in the video -Retention of the message	-	-	2	1	-	-	4	3	6	4	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training & Field Day	IWM in groundnut	1	Crop production	1	Off	2	1	-	-	22	-	24	1	25
Training	INM in sugarcane	1	Crop production	1	OFF	-	2	-	-	22	1	22	3	25
Training & Field Day	INM in rice	1	Soil Sc.	1	Off	2	1	-	-	22	-	24	1	25
Training & Field	INM in potato	1	Soil Sc.	1	Off	3	-	-	-	21	1	24	1	25

Day														
Training & Field Day	Biological control of brinjal fruit shoot borer	1	Horticulture	1	Off	1	2	-	-	22	-	23	2	25
Training	Biofertilizer application in tomato	1	Soil Sc.	1	Off	1	-	-	-	23	1	24	1	25
Training	Use of different weeder	1	Agril. Engg.	1	Off									
Training & Field Day	Use and operation of multi crop seed cum fertilizer drill	1	Agril. Engg.	1	Off	-	-	-	-	25	-	25	-	25
Training	Use of mulching in vegetable	1	Agril. Engg.	1	Off	-	-	-	-	21	4	21	4	25
Training & Field Day	Use of rotavator for dry ploughing	1	Agril. Engg.	1	Off	-	3	-	-	22	-	22	3	25
Training	Preparation of mango RTS squash	1	women in Agriculture	1	Off	-	4	-	-	-	21	-	25	25
Training	Planning , layout and	1	women in Agriculture	1	Off	-	-	-	-	-	25	-	25	25

	development of Nutritional garden													
Training & Field Day	Care and management practices in backyard poultry	1	women in Agriculture	1	Off	-	-	-	-	-	25	-	25	25
Training	Role and importance of ICT in Agriculture development	1	Agril. Extension	1	Off	-	-	-	-	-	25	-	25	25

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

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

Name of the Crop Enterprise	Variety / Type	Period From..... to	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	Swarna Sub-1	Kharif 2019	5 ha	FS	175 qtl.	315000	448000	133,000
Greengram	IPM-02-14	Rabi, 2019-20	2 ha	CS	12 qtl	20,000	30,000	10,000
Onion	Agrifound light red	Oct-Dec, 2019	0.2 ha	Planting material	70,000	2200	10,500	8300
Brinjal	JK-80-31	July, Oct 2019	0.1 ha	Planting	5000	1200	5000	3800

				material				
Chili	Daiya	July & Oct 2019	0.1 ha	Planting material	2000	400	2000	1600
Tomato	Arka Rakshyak	Oct to Nov, 2019	0.4 ha	Planting material	10,000	2100	10,000	7900
Cauliflower	Deepa	Oct, 2019	0.1 ha	Planting material	4000	1200	2000	800
Cabbage	Pusa drumhead	Oct, 2019	0.08 ha	Planting material	3000	1000	1500	500
Capsicum	California wondes	Sept- Oct 2019	0.1 ha	Planting material	3000	1500	3000	1500
Broccoli	Pusa broccoli KT sel-1	Oct 2019	0.08 ha	Planting material	2000	1200	2000	800
Papaya	Vinayak	July , Oct 2019	0.2 ha	Planting material	1000	5000	10,000	5000
Vermi compost				10 qtl.	3000	5000	2000	10 qtl.
Poultry(chicks)	Rainbow rooster			1000 nos	40000	60000	20,000	1000 nos
Pisciculture	IMC			4 qtl.	16000	40000	24,000	4 qtl.
Mushroom (paddy straw)	P. Sajorcaju			1 qtl	5000	10,000	5,000	1 qtl
Mushroom (oyster mushroom)	H. ulmarius			1 qtl	1500	5000	3,500	1 qtl

b) Village Seed Production Programme- NA

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

3. Extension Activities

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	18	394	52	446		2	2	4	396	54	450
2.	KisanMela	2	400	75	475		20	5	25	475	25	500
3.	KisanGhoshi	15	310	35	345		10	5	15	320	40	360
4.	Exhibition	5	326	25	351		138	11	149	464	36	500
5.	Film Show	50	745	23	768		12	3	15	757	26	783
6.	Method Demonstrations	25	312	21	333		24	3	27	336	24	360
7.	Farmers Seminar	5	85	5	90		8	2	10	93	7	100
8.	Workshop	5	90	5	95		-	-	-	90	5	95
9.	Group meetings											
10.	Lectures delivered as resource persons	20	876	125	1001		27	5	32	903	130	1060
11.	Advisory Services											
12.	Scientific visit to farmers field	425	300	42	342		-	-	-	300	42	342
13.	Farmers visit to KVK	852	725	210	935		-	-	-	725	210	935

14.	Diagnostic visits	68	956	234	1190		128	78	206	1084	312	1396
15.	Exposure visits	2	56	27	83		10	7	17	66	34	100
16.	Ex-trainees Sammelan	2	45	24	69		5	1	6	50	25	75
17.	Soil health Camp	2	96	42	138		8	4	12	104	46	150
18.	Animal Health Camp	2	100	90	190		6	4	10	106	94	200
19.	Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
20.	Soil test campaigns	3	68	21	89		8	3	11	76	24	100
21.	Farm Science Club Conveners meet	5	82	12	94		25	6	31	107	18	125
22.	Self Help Group Conveners meetings	3	108	22	130		15	5	20	123	27	150
23.	Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
24.	Celebration of important days (specify)											
25.	Sankalp Se Siddhi	-	-	-	-	-	-	-	-	-	-	-
26.	Swatchta Hi Sewa	15	176	24	200		4	1	5			205
27.	Mahila Kisan Diwas	1	-	25	25	-	-	-	-	-	25	25
28.	Any Other (Specify)											
	Total											

4. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2019)	Amount proposed to be invested during 2019-2020	Expected Return
3,74,672/-	4,16,300/-	6,44,000/-

5. Expected fund from other sources and its proposed utilization- NA

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

9.

1. On-farm trials to be conducted*

- i. **Season: Kharif, 2019**
- ii. **Title of the OFT: Assessment of IWM for managing weeds during kharif in transplanted rice**
- iii. **Thematic Area: IWM**
- iv. **Problem diagnosed: Heavy weed infestation in transplanted rice**
- v. **Important Cause: Non identification of proper herbicide for use in transplanted rice**
- vi. **Production system: Rice based**
- vii. **Micro farming system: Irrigated medium land**
- viii. **Technology for Testing:**
- ix. **Existing Practice: Manual weeding at 30 DAT**

Hypothesis: Post emergence application of herbicide Penoxulam at 12 DAT + HW at 30 DAT has better weed control efficiency
- x. **Objective(s): Weed control in rice**
- xi. **Treatments:**
Farmers Practice (FP): **Manual weeding at 30 DAT**
Technology option-I (TO-I): **Pre emergence application of herbicide (Bensulfuron methyl 0.6%+ Pretilachlor 6.0%) @ 10 kg/ha at 4 DAT + HW at 30 DAT**

Technology option-II (TO-II): **Post emergence application of herbicide Penoxulam at 12 DAT + HW at 30 DAT**
- xii. **Critical Inputs: of herbicide (Bensulfuron methyl 0.6%+ Pretilachlor 6.0%) and herbicide Penoxulam**
- xiii. **Unit Size: 0.142 ha**
- xiv. **No of Replications: 7**
- xv. **Unit Cost: Rs. 571.40**
- xvi. **Total Cost: Rs.4000**
- xvii. **Monitoring Indicator: Weed flora count, No of tillers/hill, 1000 grain wt,**

xviii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): SLREC Proceedings ,OUAT.2015**

*Repeat the same format for EACH OFT being proposed.

. 2.On-farm trials to be conducted*

- i. Season: Rabi, 2019-20**
- ii. Title of the OFT: Assessment of weed management during rabi in greengram**
- iii. Thematic Area: IWM**
- iv. Problem diagnosed: Heavy weed infestation in greengram**
- v. Important Cause: Non identification of proper weedicide**
- vi. Production system: Rice-pulse**
- vii. Micro farming system: Irrigated medium land**
- viii. Technology for Testing: weed management during rabi in greengram**
- ix. Existing Practice: No weeding**

- Hypothesis: Post emergence application of herbicide Imazethapyr @750ml/ha 15DAS has better weed control efficiency**

- x. Objective(s): Weed management in greengram during Rabi**
- xi. Treatments:**
 - Farmers Practice (FP): **No weeding**
 - Technology option-I (TO-I): **Pre emergence application of herbicide Pendimethalin@2500ml/ha at 3DAS**
 - Technology option-II (TO-II):..... **Post emergence application of herbicide Imazethapyr @750ml/ha 15DAS**

- Critical Inputs: of herbicide Pendimethalin and herbicide Imazethapyr**

- xii. Unit Size: 0.142 ha**
- xiii. No of Replications: 7**
- xiv. Unit Cost: Rs.285.7**
- xv. Total Cost: 2000**
- xvi. Monitoring Indicator: No of pods/plant, No of grains /pod,weed count**

- xvii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): OUAT,2015**

3. On-farm trials to be conducted*

- i. **Season: Rabi, 2019-20**
- ii. **Title of the OFT: Assessment of liming for higher productivity in groundnut during rabi**
- iii. **Thematic Area: INM**
- iv. **Problem diagnosed: Low pod weight and low yield in groundnut**
- v. **Important Cause: Poor pod filling, Less kernel weight and Small size of pod**
- vi. **Production system: Rice-groundnut**
- vii. **Micro farming system: Irrigated medium land**
- viii. **Technology for Testing: Application of liming for higher productivity**
- ix. **Existing Practice: Application of chemical fertilizer(20-30-15 NPK kg/ha) and FYM in lower doses and no use of lime**

Hypothesis: Application of soil test based fertiliser+0.2 LR (PMS) in furrows at the time of sowing has efficiency to increase production
- x.
- xi. **Objective(s): For increasing productivity of groundnut**
- xii. **Treatments:**
Farmers Practice (FP): Application of chemical fertilizer(20-30-15 NPK kg/ha) and FYM in lower doses and no use of lime

Technology option-I (TO-I): Application of soil test based fertiliser+0.2 LR (PMS) in furrows at the time of sowing

Technology option-II (TO-II): Application of soil test based fertiliser+0.2 LR (PMS)+FYM 5t/ha in furrows at the time of sowing

Critical Inputs: PMS @ 5qtl/ha
- xiii. **Unit Size: 0.14 ha**
- xiv. **No of Replications: 7**
- xv. **Unit Cost: 71.42**
- xvi. **Total Cost: 500**
- xvii. **Monitoring Indicator: No of pods /plant**
- xviii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): RRTTS, Mahisapat, OUAT 2011**

4. On-farm trials to be conducted*

- i. **Season: Rabi, 2019-20**
 - ii. **Title of the OFT: Assessment of nutrient supplementation through foliar application in greengram**
 - iii. **Thematic Area: INM**
 - iv. **Problem diagnosed: Poor branching and low pod setting**
 - v. **Important Cause: No foliar application of fertilizer**
 - vi. **Production system: Rice-greengram**
 - vii. **Micro farming system: Irrigated medium land**
 - viii. **Technology for Testing: nutrient supplementation through foliar application in greengram**
 - ix. **Existing Practice: Manual weeding at 30 DAT**
- Hypothesis: 75% N+75%P+full dose of K+Foliar spray of 2% of Urea phosphate at 20 and 35 DAS has better effect on branching and pod setting in greengram**
- x. **Objective(s): To increase yield of greengram**
 - xi. **Treatments:**
Farmers Practice (FP): **Only basal (15-30-15 NPK kg /ha and No foliar application**
Technology option-I (TO-I): **75% N+75%P+full dose of K+Foliar spray of 2% of DAP at 20 and 35 DAS**

Technology option-II (TO-II): **75% N+75%P+full dose of K+Foliar spray of 2% of Urea phosphate at 20 and 35 DAS**
- Critical Inputs: Urea Phosphate**
- xii. **Unit Size: 0.14**
 - xiii. **No of Replications: 7**
 - xiv. **Unit Cost: Rs-25.71**
 - xv. **Total Cost: Rs 180**
 - xvi. **Monitoring Indicator: No of branches/plant, No of pods /plant, no of grains/pod**
 - xvii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): RRTTS, Coastal zone ,OUAT, 2016**

5. On-farm trials to be conducted*

- i. **Season: Rabi, 2019-20**
- ii. **Title of the OFT: Assessment of Bio inoculants to increase size and weight of cauliflower in rabi**
- iii. **Thematic Area: INM**
- iv. **Problem diagnosed: Low curd weight and curd size**

- v. **Important Cause:** less use of organic manure
- vi. **Production system:** Rice-Vegetable
- vii. **Micro farming system:** Irrigated medium land
- viii. **Technology for Testing:**
- ix. **Existing Practice:** Use of chemical fertilizer(125:80:40 kg NPK kg/ha)

Hypothesis: STBF(80%NPK)+ Seed treatment with Arka Microbial consortium @10g/100g seed +Soil application with 5 kg Arka Microbial consortium mixed with 500kg FYM increase curd weight and size

- x.
- xi. **Objective(s):** Application of Bio inoculants to increase size and weight of cauliflower
- xii. **Treatments:**
 Farmers Practice (FP): Use of chemical fertilizer(125:80:40 kg NPK kg/ha
 Technology option-I (TO-I): STBF (80%NPK)+ Seed treatment with (Azotobactor+ PSB) 25gm/kg of seed +Soil appl. with 4kg/ha (Azotobactor & PSB) with 50kg FYM

Technology option-II (TO-II): STBF(80%NPK)+ Seed treatment with Arka Microbial consortium @10g/100g seed +Soil application with 5 kg Arka Microbial consortium mixed with 500kg FYM

Critical Inputs: Arka Microbial consortium, Azotobactor+ PSB

- xiii. **Unit Size:** 0.057 ha
- xiv. **No of Replications:** 7
- xv. **Unit Cost:**Rs.1400
- xvi. **Total Cost:** Rs.10000
- xvii. **Monitoring Indicator:** Curd size, curd weight, shelf life
- xviii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** IIHR, 2012

6. On-farm trials to be conducted*

- i. **Season:** Rabi, 2019-20
- ii. **Title of the OFT:** Assessment of different trellis in bittergourd for higher production in rabi
- iii. **Thematic Area:** Vegetable cultivation
- iv. **Problem diagnosed:** High incidence of fruit rot due to ground trailing
- v. **Important Cause:** Lack of knowledge about trellis system
- vi. **Production system:** Rice-vegetable
- vii. **Micro farming system:** Irrigated medium land
- viii. **Technology for Testing:** Different trellis system in vegetable for higher production
- ix. **Existing Practice:** Ground trailing
- x. **Hypothesis:** Lean to type trellis – stakes are joined between two adjoining bed forming an A shaped structure horizontal stakes are installed at the top joining of all other beds . The stakes support

the climbing vines. Strings are used to secure adjoining stakes. trellis height 2m for higher production in bittergourd

- xi. Objective(s):** different trellis system for higher production in bitter gourd
- xii. Treatments:**
Farmers Practice (FP): **Ground trailing**
Technology option-I (TO-I): **Single trellis, one row trellis constructed with bamboo poles & GI wires, jute rope**

Technology option-II (TO-II): **Lean to type trellis – stakes are joined between two adjoining bed forming an A shaped structure horizontal stakes are installed at the top joining of all other beds . The stakes support the climbing vines. Strings are used to secure adjoining stakes. trellis height 2m.**
- xiii. Critical Inputs:** Trellis system
- xiv. Unit Size:** 0.057 ha
- xv. No of Replications:** 7
- xvi. Unit Cost:** Rs.2200
- xvii. Total Cost:** Rs.15000
- xviii. Monitoring Indicator:** Length of fruit, Wt. of fruit, incidence of fruit rot
- xix. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** CHES 2014

7. On-farm trials to be conducted*

- i. Season:** Kharif, 2019
- ii. Title of the OFT:** Assessment of manual transplanters for mechanical line transplanting in kharif season
- iii. Thematic Area:** Farm mechanisation
- iv. Problem diagnosed:** Non adoption of mechanical transplanter due to its higher price
- v. Important Cause:** No suitable low cost technology on mechanized transplanting available with farmers
- vi. Production system:** Rice-vegetable
- vii. Micro farming system:** Irrigated medium land
- viii. Technology for Testing:** Manual transplanters for mechanical line transplanting
- ix. Existing Practice:** Manual transplanting
- x. Hypothesis:** Four row rice transplanter has better efficiency to reduce labour cost for transplanting
- xi. Objective(s):** To reduce labour cost for transplanting
- xii. Treatments:**
Farmers Practice (FP): **Manual transplanting**
Technology option-I (TO-I): **Three row rice transplanter**

Technology option-II (TO-II): **Four row rice transplanter**
- xiii. Critical Inputs:** Three row and four row rice transplanter

- xiv. **Unit Size: 0.14 ha**
- xv. **No of Replications: 7**
- xvi. **Unit Cost: 500**
- xvii. **Total Cost: 3500**
- xviii. **Monitoring Indicator: Field capacity(ha/h), labour required (man days/ha), plant population (hills/m²), tiller/hill , floating hills/m², damaged hills/m², missing hills/m²**
- xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): AICRP on ESA, CAET, OUAT, 2015-16 (SLRC 2016)**

8. On-farm trials to be conducted*

- i. **Season: Rabi, 2019-20**
- ii. **Title of the OFT: Assessment of groundnut threshers for stripping of groundnut in rabi**
- iii. **Thematic Area: Farm mechanisation**
- iv. **Problem diagnosed: High labour cost on manual stripping**
- v. **Important Cause: More labour requirement and no suitable labour saving threshing technology available**
- vi. **Production system: Rice groundnut**
- vii. **Micro farming system: Irrigated medium land**
- viii. **Technology for Testing:**
- ix. **Existing Practice: Manual weeding at 30 DAT**
- xx. **Hypothesis: tractor drawn groundnut thresher has better efficiency to reduce labour cost for stripping**
- x. **Objective(s): To reduce labour cost for stripping**
- xi. **Treatments:**
 Farmers Practice (FP): **Manual striping**
 Technology option-I (TO-I): **power operated groundnut thresher**

 Technology option-II (TO-II): **tractor drawn groundnut thresher**

Critical Inputs: Groundnut thresher
- xii. **Unit Size:**
- xiii. **No of Replications: 7**
- xiv. **Unit Cost: 1000**
- xv. **Total Cost: 7000**
- xvi. **Monitoring Indicator: Stripping capacity (qtl/h), labour required for stripping (man days/ha), stripping efficiency %, % of damaged pods**
- xvii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): AICRP on FIM,CAET,OUAT, 2015-16, (Research activities during 2016-17: Transferable Technologies and Technical Programme**

9. On-farm trials to be conducted*

- i. **Season: Rabi, 2019-20**
- ii. **Title of the OFT: Assessment of Grain Cleaners for drudgery reduction of farm women**
- iii. **Thematic Area: Drudgery reduction**
- iv. **Problem diagnosed: Drudgery of farm women due to manual cleaning**
- v. **Important Cause: Low efficiency and output in manual cleaning**
- vi. **Production system: Rice-groundnut**
- vii. **Micro farming system: Irrigated medium land**
- viii. **Technology for Testing: Use of grain cleaner**
- ix. **Existing Practice: Manually by Kula (bamboo)**
- x. **Hypothesis: Hanging type grain cleaner has better efficiency to reduce drudgery for grain cleaning**
- xi. **Objective(s): To reduce drudgery for grain cleaning**
- xii. **Treatments:**
Farmers Practice (FP): **Manually by Kula (bamboo)**
Technology option-I (TO-I): **CRRI make hand operated paddy winnower**

Technology option-II (TO-II): **Hanging type grain cleaner**
- xiii. **Critical Inputs: Grain cleaner**
- xiv. **Unit Size:**
- xv. **No of Replications: 7**
- xvi. **Unit Cost: 300**
- xvii. **Total Cost: 2100**
- xviii. **Monitoring Indicator: Ergonomic parameters, Heart rate(beats/min), Cardiac cost(beats/kg)**
- xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): ICAR-CIAE, Bhopal, 2009**

10. On-farm trials to be conducted*

- i. **Season: Kharif, 2019**
 - ii. **Title of the OFT: Assessment of fruit harvester for drudgery reduction of farm women**
 - iii. **Thematic Area: Drudgery reduction**
 - iv. **Problem diagnosed: High drudgery from plucking of fruits from orchard trees**
 - v. **Important Cause: Harvesting is tedious process**
 - vi. **Production system:**
 - vii. **Micro farming system: Up land rainfed**
 - viii. **Technology for Testing: Use of fruit harvester for drudgery reduction**
 - ix. **Existing Practice: Manual fruit harvesting**
- Hypothesis: CIWA mango fruit harvester has better efficiency to drudgery reduction**

- x.
- xi. **Objective(s): Use of fruit harvester for reduce drudgery reduction**
- xii. **Treatments:**
Farmers Practice (FP): **Manual fruit harvesting**
Technology option-I (TO-I): **CHES mango fruit harvester**

Technology option-II (TO-II): **CIWA mango fruit harvester**
- xiii. **Critical Inputs: Fruit harvester**
- xiv. **Unit Size:**
- xv. **No of Replications: 7**
- xvi. **Unit Cost:**
- xvii. **Total Cost:**
- xviii. **Monitoring Indicator: Output (No. of fruits/hr, Reduction in drudgery (%),**
- xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): CIWA 2010, CHES- 2011**

11. On-farm trials to be conducted*

- i. **Season: Rabi, 2019-20**
- ii. **Title of the OFT: Assessment of different planting time for better market price of Cauliflower**
- iii. **Thematic Area: Market linkage**
- iv. **Problem diagnosed: Distress sale of Cauliflower in rabi season**
- v. **Important Cause: bumper production in a short period**
- vi. **Production system: Rice-vegetable**
- vii. **Micro farming system: Irrigated medium land**
- viii. **Technology for Testing:**
- ix. **Existing Practice: Farmers generally plant the seedling in the month of October**

Hypothesis: Early planting time has to fetch better market price
- x. **Objective(s):To fetch better marketing price**
- xi. **Treatments:**
Farmers Practice (FP): **Farmers generally plant the seedling in the month of October**
Technology option-I (TO-I): **Planting of seedling 15 days before onset of normal planting period**

Technology option-II (TO-II): **Planting of seedling 15 days after completion of normal planting period**

Critical Inputs:
- xii. **Unit Size: -**
- xiii. **No of Replications: 7**
- xiv. **Unit Cost:**
- xv. **Total Cost:**
- xvi. **Monitoring Indicator: Plant height,No. of fruits/plant Fruit weight,Disease & pest incidence,Market price**
- xvii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**

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

Sl. No.	Name of the project	Fund expected (Rs.)
1	Mission Shakti	7,27,000/-
2	Agro forestry	2,00,000/-

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

12. Scientific Advisory Committee

Date of SAC meeting held during 2018-19	Proposed date during 2019-2020
11.09.2018	9.08.2019

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					875	125	875	125	1000	57	1000
Water Samples	-	-	-	-	-	-	-	-	-	-		
Other (Please specify)	-	-	-	-	-	-	-	-	-	-		
Total	1000										57	1000

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to 31.03.2019	Expected fund requirement (Rs.)
Recurring		
i. Pay & Allowance		1,26,000,00/-
ii. Contingency	9,26,723/-	14,00,000/-
iii. TA	80,000/-	80,000/-
iv. HRD		50,000/-
Non-recurring (Specify)		
i. Renovation of training hall such as celling and renovation of implement shed	6,62,500/-	
ii. Renovation of Administrative building , Farmers hostel & Poly house		10,00,000/-
iii. Furniture and equipment		4,00,000
Total	16,69,223/-	1,55,70,000/-

* Any additional requirement may be suitably justified.

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

SlNo.	Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
				Before (Rs./Unit)	After (Rs./Unit)
1	Demonstration on onion var. Agrifound light red	5	52	42,600	72,300
2	Integrated management practices for management of stem borer in paddy	5	65	18,100	30,100
3	Demonstration of paddy straw mushroom	10	68	Rs. 500/10 nos bed	Rs. 760/- per 10 nos.bed (net profit)
4	Application of Sulphur in groundnut	5	56	34400/ha	50,775/ha
5	Demonstration on Oyster mushroom <i>H. ulmarius</i>	10	78	647/10 bag (net profit)	Rs. 1100/- per 10 bag (net profit)
6	Improved variety Rainbow rooster rearing	5	65	1680	4080
7	Tractor operated seed cum fertilizer drill for sowing groundnut	5	42	42389/ha	53239/ha
8	Tractor operated axial flow thresher for threshing paddy	5	45	26050/ha	28290/ha
9	Demonstration on Integrated Disease Management (Tricyclozole +Propiconazole) against sheath Blight in paddy	5	55	62650 ha	70000 ha



Demonstration on Rainbow Rooster in backyard



Demonstration on Boron and Sulphur application in groundnut