

Annual Action Plan

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

Discipline: Crop Production

(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
Nursery management	Different technique of raising healthy nursery of paddy	1	1	OFF	April, 2019 to June 2019	3	2	-	-	20	-	23	2	25
Resource conservation Technology	Scientific cultivation of direct seeded rice	1	1	ON		2	3	-	-	20	-	22	3	25
	SRI method of rice cultivation	1	1	ON		3	2	-	-	17	3	20	5	25
Cropping Systems	Hybrid rice production technique for higher yield and income	1	1	OFF		4	1	-	-	17	3	21	4	25
Crop Diversification	Role of green manure and bio-fertilizer in crop production and soil fertility	1	1	OFF		4	1	-	-	16	4	20	5	25

	Scientific cultivation of summer moong	1	1	ON		3	2	-	-	18	2	21	4	25
Crop production	Cultivation technique of soybean in kharif	1	1	ON	July, 2019 to September 2019	5	-	-	-	20	-	25	-	25
Resource conservation technology	SRI method of rice cultivation	1	1	OFF		5	-	-	-	20	-	25	-	25
	Direct seeded rice production technique	1	1	OFF		5	-	-	-	20	-	25	-	25
Integrated nutrient management	Integrated nutrient management in kharif crop	1	1	ON		5	-	-	-	20	-	25	-	25
Crop production	Cultivation technique of Rabi Pulses	1	1	ON	October 2019 to December 2019	5	-	-	-	20	-	25	-	25
	Introduction of different crops as inter crop in autumn Sugarcane	1	1	ON		5	-	-	-	20	-	25	-	25
Resource conservation technology	Scientific cultivation of wheat cultivation	1	1	OFF		3	2	-	-	17	3	20	5	25
	Zero tillage technique of wheat sowing	1	1	OFF		5	-	-	-	20	-	25	-	25
Weed management	Integrated weed management in Rabi crops	1	1	ON		3	2	-	-	20	-	23	2	25
Integrated nutrient management	Integrated nutrient management in Rabi crop	1	1	ON		3	2	-	-	17	3	20	5	25

Water management	Water management techniques in different Rabi crops	1	1	OFF	Jan 2020 to March, 2020	5	-	-	-	20	-	25	-	25
	Cultivation of sugarcane by single bud method	2	2	OFF		5	-	-	-	20	-	25	-	25
Crop Diversification	Cultivation of summer moong	1	1	OFF		4	1	-	-	17	3	21	4	25
	Green manuring for improving soil fertility & yield of kharif crop	2	2	ON		5	-	-	-	20	-	25	-	25
	Cultivation of different fodder crops	1	1	ON		3	2	-	-	17	3	20	5	25
Water management	Scope of micro irrigation in Sugarcane	1	1	OFF		5	-	-	-	20	-	25	-	25
	Residue management	1	1	OFF		3	2	-	-	17	3	20	5	25
	Sugarcane based intercropping system	2	2	ON		5	-	-	-	20	-	25	-	25
Total		27	27				98	22	-	-	453	27	551	49

(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
Nursery management	Modern technique of raising Rice seedling for commercial purpose	1	3	ON	April 2019 to June 2019	5	-	-	-	20	-	25	-	25
Integrated farming	Paddy cum fish culture for higher income per unit area	1	3	ON	July 2019 to September 2019	5	-	-	-	20	-	25	-	25
Integrated nutrient management	Different methods of vermin-compost production	1	3	ON		3	2	-	-	17	3	20	5	25
Crop Production	Seed Production technique in field crop	1	3	ON	October 2019 to December 2019	5	-	-	-	20	-	25	-	25
Value addition	Potato based industries	1	3	ON		3	2	-	-	17	3	20	5	25

Integrated nutrient management	Role of Bio-fertilizer and vermin-compost in crop production	1	3	ON	Jan, 2020 to March, 2020	3	2	-	-	17	3	20	5	25
Integrated nutrient management	Agricultural waste management	1	3	ON		5	-	-	-	20	-	25	-	25
Total		7	21			29	6	-	-	131	9	160	15	175

(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
Productivity enhancement in field crops	Hybrid rice production technique	1	2	ON	April , 2019 to June, 2019	5	-	-	-	20	-	25	-	25
Resource conservation technologies	Direct seeded rice production technique	1	2	ON	July, 2019 to September, 2019	5	-	-	-	20	-	25	-	25
Crop production	Seed Production technique in sugarcane	1	1	ON		3	2	-	-	20	-	23	2	25
Integrated nutrient management	Role of Bio- fertilizer, Vermi- compost and green manure in crops Production	1	2	ON	Jan, 2020 to March, 2020	5	-	-	-	20	-	25	-	25
Total		4	7			18	2	-	-	80	-	98	2	100

Discipline: Plant Protection
(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
Integrated Pest Management	Integrated insect pest management in paddy	2	1	ON/OFF	April, 2019 to June, 2019	8	2	-	-	30	10	38	12	50
	Integrated disease management in maize	2	1	ON/OFF		7	3	-	-	30	10	37	13	50
	Integrate Disease management in paddy	2	1	ON/OFF	July, 2019 to September, 2019	10	-	-	-	32	8	42	8	50
	Integrated disease management sugarcane	2	1	ON/OFF		10	-	-	-	40	-	50	-	50

	Integrated Disease management in wheat	1	1	ON	October, 2019 to December, 2019	5	-	-	-	20	-	25	-	25
	Integrated insect pest management of sugarcane	1	1	ON		5	-	-	-	20	-	25	-	25
	Integrated insect pest management in oilseed & pulses	2	1	ON/OFF		10	-	-	-	40	-	50	-	50
	Integrated disease management of mango	2	1	ON/OFF		10	-	-	-	40	-	50	-	50
	Integrated insect pest management in Mango	2	1	ON/OFF	Jan, 2020 to March, 2020	10	-	-	-	40	-	50	-	50
	Integrated disease off time vegetables maize	2	1	ON/OFF		10	-	-	-	40	-	50	-	50
	Integrated insect pest management in sugarcane	1	1	OFF		5	-	-	-	20	-	25	-	25
	Integrated disease	2	1	OFF		7	3	-	-	33	7	40	10	50

	management of mango													
	Integrated pest management in vegetables	2	1	ON/OFF		8	2	-	-	35	5	43	7	50
	Integrated insect pest management of litchi	1	1	ON/OFF		5	-	-	-	20	-	25	-	25
Total		24	14			110	10			440	40	550	50	600

(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
Vermi- culture	Vermi- Compost production	1	3	ON	April, 2019 to June, 2019	7	3	-	-	34	6	41	9	50
	Integrated disease management of vegetable	1	3	ON		10	-	-	-	40	-	50	-	50
Mushroom production	Mushroom cultivation	1	3	OFF	July, 2019 to September,	6	4	-	-	35	5	41	9	50

Production of Botanical pesticide	Production of Botanical pesticide	1	3	ON	2019	5	-	-	-	15	-	20	-	20
	Integrated disease & insect management of off time vegetable cultivation	1	3	ON		5	-	-	-	15	-	20	-	20
Disease management Nursery	Nursery management of vegetable & papaya from pests	1	3	ON	October, 2019 to December, 2019	5	-	-	-	15	-	20	-	20
Total		6	18			38	7			154	11	192	18	210

(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
Integrated pest management	Safe use of pesticide	1	1	ON	April, 2019, to June, 2019	5	-	-	-	15	-	20	-	20
Production and use of Bio-pesticides	Bio pesticides production, Integrated Disease management in paddy	1	1	OFF	July, 2019 to September, 2019	3	-	-	-	17	-	20	-	20

	Integrated disease & insect management of off time vegetable	1	1	OFF		3	-	-	-	17	-	20	-	20
Total		3	3			11				49		60		60

Discipline: Horticulture (Vegetable)
(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
Nursery management	Different technique of raising healthy nursery of summer vegetables	1	1	OFF	April, 2019 to June 2019	3	2	-	-	20		23	2	25
Resource conservation Technology	Scientific cultivation of tomato	1	1	ON		5		-	-	20		25		25
	Nutrient management in summer vegetables	1	1	ON		4	1	-	-	20		24	1	25
Cropping Systems	Hybrid brinjal production technique for higher yield and income	1	1	OFF		5		-	-	20		25		25
Crop Diversification	Role of green manure and bio-fertilizer in crop	1	1	OFF		5		-	-	20		25		25

	production and soil fertility													
	Scientific cultivation of summer bottle gourd	1	1	ON		5		-	-	20		25		25
Crop production	Cultivation technique of okra in kharif	1	1	ON	July, 2019 to September 2019	02	3	-	-	20		22	3	25
Resource conservation technology	Management of young orchards	1	1	OFF		5		-	-	20		25		25
	Rootstock raising technique in nursery	1	1	OFF		3	2	-	-	20		23	2	25
Integrated nutrient management	Integrated nutrient management in kharif vegetable crop	1	1	ON		5		-	-	20		25		25
Crop production	Cultivation technique of Chilli	1	1	ON	October 2019 to December 2019	5		-	-	20		25		25
	Production technology of cauliflower crop	1	1	ON		5		-	-	20		25		25
Resource conservation technology	Scientific cultivation of pointed gourd	1	1	OFF		5		-	-	20		25		25
	Nursery raising technique in Rabi vegetable crops	1	1	OFF		5		-	-	20		25		25
Weed management	Integrated weed management in Rabi vegetable crops	1	1	ON		5		-	-	20		25		25
Integrated nutrient management	Integrated nutrient management in Rabi crop	1	1	ON		5		-	-	20		25		25

Water management	Water management techniques in different Rabi crops	1	1	OFF	Jan 2020 to March, 2020	5		-	-	20		25		25
	Cultivation of peas for vegetable	2	2	OFF		5		-	-	20		25		25
Crop Diversification	Management potato crops for seed	1	1	OFF		5		-	-	20		25		25
	Cultivation of cucurbitaceous vegetables	2	2	ON		5		-	-	20		25		25
	Production technique of summer okra	1	1	ON		5		-	-	20		25		25
Water management	Scope of micro irrigation in cucurbitaceous vegetable crops	1	1	OFF		5		-	-	20		25		25
	Cultivation of better quality onion	1	1	OFF		5		-	-	20		25		25
	Potato based intercropping system	2	2	ON	5		-	-	20		25		25	
Total		27	27			112	8			480		592		600

(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
Nursery management	Modern technique of raising summer vegetable seedling for commercial purpose	1	3	ON	April 2019 to June 2019	4	1	-	-	20		24	1	25
Integrated farming	Scientific cultivation of different kharif vegetable crops	1	3	ON	July 2019 to September 2019	3	2	-	-	20		23	2	25
Integrated nutrient management	Integrated nutrient management in different kharif vegetable crops	1	3	ON		5		-	-	20		25		25
Crop Production	Protected cultivation of vegetable crops	1	3	ON	October 2019 to December 2019	5		-	-	20		25		25
Value addition	Post-harvest management in vegetable crops	1	3	ON		5		-	-	20		25		25
Integrated nutrient management	Role of Bio-fertilizer and vermin-compost in vegetable crop production	1	3	ON	Jan, 2020 to March, 2020	5		-	-	20		25		25

Integrated nutrient management	Agricultural waste management	1	3	ON		5		-	-	20		25		25
Total		7	21			35	3			140		172	3	175

(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
Protected Cultivation	Cultivation of off season vegetables	1	2	ON	April , 2019 to June, 2019	5	-	-	-	20	-	25	-	25
Resource conservation technologies	Rejuvenation of old mango orchard	1	2	ON	July, 2019 to September, 2019	5	-	-	-	20	-	25	-	25
Crop production	Production technique in Kharif vegetables	1	1	ON		5	-	-	-	20	-	25	-	25
Integrated nutrient management	Role of Bio-fertilizer, Vermi-compost and green manure in	1	2	ON	Jan, 2020 to March, 2020	5		-	-	20	-	25	-	25

	vegetable crops Production													
Total		4	7			20				80		100		100

Discipline: Agricultural Engineering
(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
Post-Harvest Technology	Harvesting Implements and thresher	2	1	OFF	April, 2019 to June, 2019	15		-	-	45		60		60
Repair & Maintenance of farm machinery & Implements	Implements for seed bed preparation for paddy cultivation	2	1	ON		15		-	-	50		65		65
	Use of weeding Implements/ Machine in Sugarcane crop	2	1	ON		15		-	-	50		65		65
Repair & Maintenance of	Implements for paddy	2	2	ON		15		-	-	50		65		65

farm machinery & Implements	transplanting/ sowing				July, 2019 to September, 2019									
Production of small tools & implements	Implements for inter culturing operation	2	1	ON/OFF		15		-	-	50		65		65
	Use & Benefits of poly tunnel and poly house	2	1	ON/OFF		15		-	-	50		65		65
Repair & Maintenance of farm machinery & Implements	Implements for sowing wheat	2	2	ON/OFF	October, 2019 to December, 2019	15		-	-	50		65		65
Installation and maintenance of micro irrigation system	Use of micro irrigation	2	2	ON/OFF		5		-	-	50		55		55
	Care & maintenance of tractor drann implements in Agril. Use	2	2	ON/OFF		15		-	-	50		65		65
	Repair & maintenance of poly tunnel & poly house	2	1	ON/OFF		5		-	-	50		55		55
	Use of plastic in farming practices	2	1	ON/OFF		10		-	-	50		60		60
Use of plastics in farming practices	Working function of seed processing equipments	2	1	ON/OFF	Jan, 2020 to March, 2020	6		-	-	14		20		20

Total	24	16			156				559		705		705
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(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
Post-Harvest Technology	Use of different types of threshers, safety and storage structures	1	2	ON	April 2019 to June 2019	5		-	-	15		20		20
Repair and maintenance of farm machinery and implements	Maintenance of implements for paddy cultivation	2	3	ON	July 2019 to Sept. 2019	8		-	-	16		24		24
Repair and maintenance of farm machinery and implements	Maintenance of implements for wheat cultivation	1	3	ON	Oct. 2019 to Dec. 2019	5		-	-	15		20		20
Repair and maintenance of farm machinery and implements	Maintenance of implements for Sugarcane production	1	3	ON/OFF	Jan 2020 to March 2020	8		-	-	18		26		26

	Care & maintenance of different type of plant protection equipments	1	3	ON/OFF		8		-	-	18		26		26
Total		6	14			34				82		116		116

(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
Care and maintenance of farm machinery & implements	Implements for paddy cultivation	1	1	ON	April, 2018 to September, 2018	5	-	-	-	20	-	25	-	25
Care and maintenance of farm machinery & implements	Implements for wheat cultivation	1	1	ON	Oct. 2019 to March, 2019	5	-	-	-	20	-	25	-	25
	Care & maintenance of plant protection equipments	1	1	ON		5	-	-	-	20	-	25	-	25
Total		3	3			15	-	-	-	60	-	75	-	75

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	1	15	5	20	5	-	5				20	5	25
Resource Conservation Technologies	3	45	15	60	10	5	15				55	20	75
Cropping Systems	1	14	6	20	5	-	5				19	06	25
Crop Diversification	5	78	22	100	15	10	25				93	32	125
Integrated Farming													
Water management	2	28	12	40	7	3	10				35	15	50
Seed production													
Nursery management	1	12	8	20	5	-	5				17	8	25
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)	3	45	15	60	10	5	15				55	20	75
TOTAL	16	237	83	320	57	23	80				294	106	400
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Production of low volume and high value crops	8	143	17	160	28	12	40				171	29	200
Off-season vegetables													
Nursery raising	1	13	7	20	5	-	5				18	7	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	80	20	100	19	6	25						125
TOTAL	14	236	44	280	52	18	70				288	62	350
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
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													
Processing and value addition													
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			
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
TOTAL													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any (Goat farming)													
TOTAL													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													

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			
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
TOTAL													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems	3	50	10	60	15	-	15				65	10	75
Use of Plastics in farming practices	4	80	-	80	20	-	20				100	-	100
Production of small tools and implements	4	80	-	80	20	-	20				100		100
Repair and maintenance of farm machinery and implements	7	120	20	140	35	-	35				155	20	175
Small scale processing and value addition													
Post Harvest Technology	2	40	-	40	10	-	10				50	-	50
Others, if any	1	20	-	20	5	-	5				25	-	25
TOTAL	21	390	30	420	105		105				495	30	525
VII. Plant Protection													
Integrated Pest Management	24	440	40	480	102	18					542	58	600
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL	24	440	40	480	102	18	120				542	58	600

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			
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													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													

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			
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	75	1303	197	1500	316	59	375				1619	256	1875

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	2	30	10	40	10	10	20	-	-	-	40	20	60
Bee-keeping	2	30	10	40	10	10	20	-	-	-	40	20	60
Integrated farming	2	32	8	40	6	4	10	-	-	-	38	12	50
Seed production													
Production of organic inputs													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops	2	30	10	40	6	4	10	-	-	-	50	-	50
Commercial fruit production													
Repair and maintenance of farm machinery and implements	4	48	16	64	10	6	16	-	-	-	58	22	80
Nursery Management of Horticulture crops	2	40	-	40	10	-	10	-	-	-	50	-	50
Training and pruning of orchards													
Value addition	2	40	-	40	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			
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	2	30	-	30	10	-	10	-	-	-	40	-	40
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (ICT application in agriculture)													
TOTAL	18	280	54	334	72	34	106				352	88	440

Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops	1	15	5	20	5	-	5	-	-	-	20	5	25
Integrated Pest Management	1	20	-	20	3	2	5	-	-	-	23	2	25

Integrated Nutrient management	1	13	7	20	4	1	5	-	-	-	17	8	25
Rejuvenation of old orchards	1	20	-	20	5	-	5	-	-	-	25	-	25
Value addition													
Protected cultivation technology	1	16	4	20	5	-	5	-	-	-	21	4	25
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	3	48	12	60	8	7	15				56	19	75
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	8	132	28	160	30	10	40				162	38	200

3. Frontline demonstration to be conducted*

Crop: Wheat

Thrust Area: Promotion of productivity of wheat

Thematic Area: Crop production

Season: Rabi 2019-20

Farming Situation: Irrigated

Crop: Lentil

Thrust Area: Promotion of productivity of Lentil

Thematic Area: Crop production

Season: Rabi 2019-20

Farming Situation: Irrigated

Crop: Paddy

Thrust Area: Promotion of productivity of Paddy

Thematic Area: Crop production

Season: Kharif 2019-20

Farming Situation: Irrigated

Crop: Mustard

Thrust Area: Promotion of productivity of Mustard

Thematic Area: Crop production

Season: Rabi 2019-20

Farming Situation: Irrigated

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	Wheat HD 2967	5	Variety and application weedicides for weed management	Yield attributes, dry weight of weed per unity area	Seed and herbicides	34000	29000	2	1	-	-	20	2	22	3	25

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	Lentil	10	Use of Chemical pesticides, biofertilizer and biopesticide	Disease incidence, disease severity	Hexaconazole/ Propiconazole/ PSB/ Rhizobium/ Use of <i>Trichoderma viride</i>	22000	17000	2	1	-	-	20	2	22	3	25

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	5	Co-51	Yield attributes	Seed	30000	28000	2	1	-	-	20	2	22	3	25

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	5	Use of chemical pesticide for management of stem rot and aphid	Yield attributes, disease incidence, disease severity, insect infestation per cent	Seed	21000	17000	2	1	-	-	20	2	22	3	25

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	Scientific cultivation of wheat	01		1	ON	2	1	-	-	20	2	22	3	25
Training	Scientific cultivation of Lentil	01		1	ON	2	1	-	-	20	2	22	3	25
Training	Scientific cultivation of Paddy	01		1	ON	2	1	-	-	20	2	22	3	25
Training	Scientific cultivation of Mustard	01		1	ON	2	1	-	-	20	2	22	3	25

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

4. 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	R. Shweta	July 2019 to October 2019	2	F/S	70-80	56000	325000	269000
Wheat	HD 2733	Nov 2019 to April 2020	2.5	F/S	90	55000	355000	300000
Lentil	HUL 57	Nov 2019 to March 2020	1	F/S	7	18000	98000	80000

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.)

5. 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	04	125	07	132	-	-	-	-	125	07	132
2.	KisanMela	01	88	-	88	-	-	-	-	88	-	88
3.	KisanGhoshi	02	76	05	81	-	-	-	-	76	05	81
4.	Exhibition											
5.	Film Show											
6.	Method Demonstrations											
7.	Farmers Seminar											
8.	Workshop											
9.	Group meetings											
10.	Lectures delivered as resource persons	14	1388	25	1413					1388	25	1413
11.	Advisory Services											
12.	Scientific visit to farmers field		112	-	112	-	-	-	-	112	-	112
13.	Farmers visit to KVK		1785	192	1977	-	-	-	-	1785	192	1977
14.	Diagnostic visits											

15.	Exposure visits											
16.	Ex-trainees Sammelan											
17.	Soil health Camp											
18.	Animal Health Camp	02	155	33	188	-	-	-	-	155	33	188
19.	Agri mobile clinic											
20.	Soil test campaigns											
21.	Farm Science Club Conveners meet	01	99	26	125	-	-	-	-	99	26	125
22.	Self Help Group Conveners meetings											
23.	MahilaMandals Conveners meetings											
24.	Celebration of important days (specify)	01	78	22	100	-	-	-	-	78	22	100
25.	Sankalp Se Siddhi											
26.	Swatchta Hi Sewa	01	40	06	46	-	-	-	-	40	06	46
27.	Mahila Kisan Diwas	01	-	39	39	-	-	-	-	-	39	39
28.	Any Other (Specify)											
	Total	27	3946	355	4301					3946	355	4301

6. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2019)	Amount proposed to be invested during 2019-2020	Expected Return
5,90,400	3,00,000	7,00,000

7. Expected fund from other sources and its proposed utilization

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

9. On-farm trials to be conducted*

- i. Season: Summer**
- 1. Title of the OFT: Potentiality of Sugarcane based intercropping system**
- ii. Thematic Area: Crop production**
- iii. Problem diagnosed: Improper utilization of cultivable space in sugarcane at initial stage leads to suffer additional income**
- iv. Important Cause: Farmers are getting less income**
- v. Production system: Rice-wheat**
- vi. Micro farming system: Irrigated, mid land and sandy loam**
- vii. Technology for Testing: Sugarcane based intercropping**
- viii. Existing Practice: Sole crop of Sugarcane**
- ix. Hypothesis: Introduction of Sugarcane based intercropping to remunerate the farmers more**
- x. Objective(s): Economical upgradation of farmers**
- xi. Treatments:**
 - Farmers Practice (FP): Sole crop of Sugarcane
 - Technology option-I (TO-I): Sugarcane + Cowpea
 - Technology option-II (TO-II): Sugarcane + Green gram
- xii. Critical Inputs: Seed, fertilizer and pesticide**

- xiii. **Unit Size: 0.5 acre**
- xiv. **No of Replications: 06**
- xv. **Unit Cost: 3000**
- xvi. **Total Cost: 18000**
- xvii. **Monitoring Indicator:** Germination %, number of tillers, plant height, cane girth, single cane weight, yield (t ha⁻¹), yield equivalence, LER and B:C ratio
- xviii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Indian Institute of Sugarcane Research, Lucknow, UP

- xix. **Season: Winter**
- 2. **Title of the OFT:** Weed management in Sugarcane
- xx. **Thematic Area:** Crop production
- xxi. **Problem diagnosed:** infestation of weed causes heavy loss
- xxii. **Important Cause:** yield loss
- xxiii. **Production system:** Rice - wheat
- xxiv. **Micro farming system:** Irrigated, mid land and sandy loam
- xxv. **Technology for Testing:** Weed management
- xxvi. **Existing Practice:** No use of weedicide
- xxvii. **Hypothesis:** Timely application of herbicides for weed management
- xxviii. **Objective(s):** To increase the yield of farmers
- xxix. **Treatments:**
 - Farmers Practice (FP): No use of weedicide
 - Technology option-I (TO-I): Atrazine @ 3 kg/ha as pre-emergence application + 2,4- D @ 1kg/ ha after 60 DAP
 - Technology option-II (TO-II): Atrazine @ 3 kg/ha as pre-emergence application + 2,4- D @ 1kg/ ha after 60 DAP + Carfentrazone @ 20 gm a.i./ ha at 120 DAP
- xxx. **Critical Inputs:** Labour and herbicides
- xxxi. **Unit Size: 0.5 acre**
- xxxii. **No of Replications: 07**
- xxxiii. **Unit Cost: 2000**
- xxxiv. **Total Cost: 14000**
- xxxv. **Monitoring Indicator:** Dry weight of weed per unit area, yield attributing character, yield and economics
- xxxvi. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** IISR, Lucknow

- xxxvii. **Season: Kharif**
3. **Title of the OFT: Management of Root - Knot nematode *Meloidogyne incognita* in Tomato**
- xxxviii. **Thematic Area: Plant protection**
- xxxix. **Problem diagnosed: Galls in root, Stunting of Plants , hampering bearing**
- xl. **Important Cause: economic losses**
- xli. **Production system: Rice- wheat**
- xlii. **Micro farming system: Irrigated, mid land and sandy loam**
- xliii. **Technology for Testing: Management of root knot nematode in tomato**
- xliv. **Existing Practice: Improper use of pesticide**
- xlv. **Hypothesis: Management of root knot nematode**
- xlvi. **Objective(s):To increase the yield and income of farmers**
- xlvii. **Treatments:**
 Farmers Practice (FP): Improper use of pesticide
 Technology option-I (TO-I): Soil solarization + use of neem cakes @ 1 t/ha
 Technology option-II (TO-II): Soil solarization 15 days + Carbofuran 1 kg a.i./ha
 Technology option-III (TO-III): Use of *Pseudomonas fluorescens* 1 % WP @ 50g/m²
 Technology option-IV (TO- IV): Soil solarization 15 days + P. fluorescens 1 % WP @ 50g/m²
- xlviii. **Critical Inputs: Pesticides and labours**
- xlix. **Unit Size:0.5 acre**
- l. **No of Replications: 05**
- li. **Unit Cost: 1500**
- lii. **Total Cost: 7500**
- liii. **Monitoring Indicator: No. of root galls, yield & complex disease symptom**
- liv. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): IARI, New Delhi**

- iv. **Season: Kharif**
- 4. **Title of the OFT: Management of Pod Borer (*Helicoverpa armigera*) in Pigeon Pea**
- lvi. **Thematic Area: IPM**
- lvii. **Problem diagnosed: Tunneling in Pods, larval population in pods, caterpillars destroy buds flowers, pods and reduction in yield**
- lviii. **Important Cause: Economic losses to farmers due to pod borer**
- lix. **Production system: Rice-wheat**
- lx. **Micro farming system: Irrigated, mid land and sandy loam**
- lxi. **Technology for Testing: Management of pod borer**
- lxii. **Existing Practice: Improper use of Insecticide**
- lxiii. **Hypothesis: Proper application of chemical pesticides for borers**
- lxiv. **Objective(s): To enhance the yield and economics of farmers**
- lxv. **Treatments:**
 - Farmers Practice (FP): Improper use of Insecticide
 - Technology option-I (TO-I): Installation of *Helicoverpa armigera* pheromone traps @ 10 traps/ha
 - Technology option-II (TO-II): Spraying of Emamectin Benzoate 5% SG @ 0.5 g/ L after 25% pod stage and second spray after 15 days with Cypermethrin 25 EC @ 0.15% wate
 - Technology option-III (TO-III): Spraying of Profenophos 50% EC @ 2ml/L water after 25% of pod stage and 2nd spray after 15 days with Indoxacarb 14.5% SC @ 0.3 ml/L water
 - Technology option-IV (TO- IV): Spraying of Bio-pesticide Bt @ 5g/L + HaNPV 250 LE with 0.5% jaggery & 0.1% Boric acid
- lxvi. **Critical Inputs: Chemical pesticides and labour**
- lxvii. **Unit Size:0.5 acre**
- lxviii. **No of Replications: 05**
- lxix. **Unit Cost: 2000**
- lxx. **Total Cost: 1000**
- Monitoring Indicator: % of Tunneling in pods, Chaffy andshrivelled grains, Low yield**
- Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): UAS Dharwad, Karnataka**

- lxxi. Season: Summer**
5. Title of the OFT: Compatibility assessment of fungicide and insecticide for the management of Alternaria blight and white fly of Bottle Gourd.
- lxxii. Thematic Area:** IPM
- lxxiii. Problem diagnosed:** Unawareness about the compatibility between pesticide and fungicide
- lxxiv. Important Cause:** Incompatible pesticides mixing creates phytotoxic effect
- lxxv. Production system:** Rice- Wheat
- lxxvi. Micro farming system:** Irrigated, mid land and sandy loam
- lxxvii. Technology for Testing:** Compatibility assessment of fungicide and insecticide for the management of Alternaria blight and white fly of Bottle Gourd.
- lxxviii. Existing Practice:** Improper and imbalanced application of pesticides
- lxxix. Hypothesis:** Incompatible pesticides mixing creates phytotoxic effect
- lxxx. Objective(s):** To save the time, energy and money of the farmers
- lxxxi. Treatments:**
Farmers Practice (FP): Improper and imbalanced application of pesticides
Technology option-I (TO-I): Three times spray of Hexaconazole 5% EC @ 0.15% solution
Technology option-II (TO-II): Three times spray of Hexaconazole 5% EC + Acetamiprid 20% SP @ 0.03% solution
Technology option-III (TO-III): Three times spray of Acetamiprid 20% SP @ 0.03%
- lxxxii. Critical Inputs:** Chemical pesticides and labour
- lxxxiii. Unit Size:** 0.5 acre
- lxxxiv. No of Replications:** 05
- lxxxv. Unit Cost:** 1500
- lxxxvi. Total Cost:** 7500
- lxxxvii. Monitoring Indicator:** yield, economics, % disease incidence and number of insects per leaf
- lxxxviii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Annamalai University, Tamil Nadu
- lxxxix. Season:** Kharif
- 6. Title of the OFT:** Evaluation of Fungicides Against Sheath Blight (*Rhizoctonia solani*) of Paddy
- xc. Thematic Area:** Plant protection
- xc. Problem diagnosed:** Yield losses due to severe incidence of Sheath blight in paddy
- xcii. Important Cause:** Sheath blight reduce yield heavily
- xciii. Production system:** Rice- wheat

- xciv. **Micro farming system:** Irrigated, mid land and sandy loam
- xcv. **Technology for Testing: Management of sheath blight in paddy**
- xcvi. **Existing Practice:** Control
- xcvii. **Hypothesis: Paddy sheath blight management**
- xcviii. **Objective(s): Yield enhancement and ultimately income of farmers**
- xcix. **Treatments:**
 - Farmers Practice (FP): Contro
 - Technology option-I (TO-I): Seedling treatment with Validamycin 3 % SL @ 0.1% solution + two spray of Carbendazim 50% WP @ 0.1% in the main field
 - Technology option-II (TO-II): Seedling treatment with Propiconazole 25% EC @ 0.15%+ two spray of Propiconazole 25% @ 0.1% in the main field
 - Technology option-III (TO-III): Seedling treatment with Tabuconazole 25% EC @ 0.15% + two spray of Tabuconazole 25% EC @ 0.15% in the main field
- c. **Critical Inputs: Labour and chemical psticides**
- ci. **Unit Size:0.5 acre**
- cii. **No of Replications: 05**
- ciii. **Unit Cost: 1500**
- civ. **Total Cost: 7500**
- cv. **Monitoring Indicator:** Disease incidence, Disease severity, Yield
- cvi. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Annamalai University, Tamil Nadu

- cvii. **Season: Winter**
- 7. **Title of the OFT:** Influence of Different Planting dates on Late Blight Incidence and Yield of Potato
- cviii. **Thematic Area:** Horticulture
- cix. **Problem diagnosed:** Low yield of Potato due to severity of late blight
- cx. **Important Cause:** Untimely sowing of potato invites more severity of late blight
- cxii. **Production system:** Rice-wheat
- cxiii. **Micro farming system:** irrigated, midland and sandy loam
- cxiii. **Technology for Testing:** Effect of time of sowing on late blight and yield of potato
- cxiv. **Existing Practice:** Planting date on 15 October
- cxv. **Hypothesis:** Proper sowing time of potato increases the yield by reducing the late blight incidence
- cxvi. **Objective(s):** To enhance yield and economics of farmers

- cxvii. Treatments:**
Farmers Practice (FP): Planting date on 15 October
Technology option-I (TO-I): Planting date on 25 October
Technology option-II (TO-II): Planting date on 5 November
Technology option-III (TO-III): Planting date on 15 November
- cxviii. Critical Inputs: Seed and labour**
- cxix. Unit Size:0.5 acre**
- cxx. No of Replications: 05**
- cxxi. Unit Cost: 2000**
- cxxii. Total Cost: 10000**
- cxiii. Monitoring Indicator: Tuber yield, Disease incidence, Disease severity, B:C ratio**
- cxiv. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): NDUAT, Faizabad, UP**
- cxv. Season: Winter**
- 8.Title of the OFT: Effect of Intercropping on yield and economics of potato**
- cxvi. Thematic Area: Horticulture**
- cxvii. Problem diagnosed: Low income and less risk coverage**
- cxviii. Important Cause: Farmers are getting less income**
- cxix. Production system:Rice- wheat**
- cxix. Micro farming system: Irrigated, midland and sandy loam**
- cxxi. Technology for Testing: Potato based intercropping system**
- cxviii. Existing Practice: Potato (Sole)**
- cxviii. Hypothesis: Introduction of Potato based intercropping to remunerate the farmers more**
- cxviii. Objective(s): Economical upgradation of farmers**
- cxv. Treatments:**
Farmers Practice (FP): Potato (Sole)
Technology option-I (TO-I): Potato + Bottle Gourd (4:1)
Technology option-II (TO-II): Potato + Cabbage (1:1)
Technology option-III (TO-III): Potato + Water melon (4:1)
- cxv. Critical Inputs: Seed and labour**
- cxv. Unit Size:0.5 acre**
- cxv. No of Replications: 05**

- cxix. Unit Cost: 2000**
- cxl. Total Cost: 10000**
- cxli. Monitoring Indicator:** Tuber yield, Yield equivalence, Plant population, Land equivalent ratio, B:C ratio
- cxlii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh
- cxliii. Season: Kharif**
- 8. Title of the OFT:** Assessment of Manpower management through various methods of sowing of rice
- cxliv. Thematic Area:** Agricultural Engineering
- cxlv. Problem diagnosed:** Uneven distribution and crisis of labourers resulting in delay in transplanting and affect the yield
- cxlvi. Important Cause:** More cost is incurred on labours
- cxlvii. Production system:** Rice- wheat
- cxlviii. Micro farming system:** Irrigated, midland and sandy loam
- cxlix. Technology for Testing:** Assessment of manpower
- cl. Existing Practice:** Manual transplanting
- cli. Hypothesis:** More cost is involved and to reduce the the cost of cultivation
- clii. Objective(s):** To enhance the B:C ratio
- cliii. Treatments:**
 Farmers Practice (FP): Manual transplanting
 Technology option-I (TO-I): Sowing of paddy seeds by rice wheat seeder
 Technology option-II (TO-II): Sowing of sprouted paddy seeds by drum seeder
- cliv. Critical Inputs:** Seed and Labour
- clv. Unit Size:**0.5 acre
- clvi. No of Replications:** 07
- clvii. Unit Cost:** 1000
- clviii. Total Cost:** 7000
- clix. Monitoring Indicator:** Weeding in sugarcane crop is generally done by spade which is more time consuming and labour intensive
- clx. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Punjab Agricultural University, Ludhiana, Punjab

- clxi. **Season: Summer**
9. **Title of the OFT:** Evaluation of different weeding practices in sugarcane cultivation
- clxii. **Thematic Area:** Agricultural Engineering
- clxiii. **Problem diagnosed:** Weeding in sugarcane crop is generally done by spade which is more time consuming and labour intensive
- clxiv. **Important Cause:** Manual weeding is more costly to farmers
- clxv. **Production system:** Rice-wheat
- clxvi. **Micro farming system:** Irrigated, midland and sandy loam
- clxvii. **Technology for Testing:** Introduction of small agricultural tools
- clxviii. **Existing Practice:** Manual weeding by spade
- clxix. **Hypothesis:** Assessment of different weeding practices in Sugarcane
- clxx. **Objective(s):** To enhance the income of farmers
- clxxi. **Treatments:**
 Farmers Practice (FP): Manual weeding by spade
 Technology option-I (TO-I): Application of atrazine @ 3.0 kg ha⁻¹ within 2-3 Days after planting followed by application of 2,4-D @ 1.5 kg ha⁻¹ at 55-60 days after planting
 Technology option-II (TO-II): Weeding by power weeder
- clxxii. **Critical Inputs:** Weedicides and labour
- clxxiii. **Unit Size:** 0.5 acre
- clxxiv. **No of Replications:** 07
- clxxv. **Unit Cost:** 1500
- clxxvi. **Total Cost:** 10500
- clxxvii. **Monitoring Indicator:** Weed mortality (%), yield, net return, B:C ratios
- clxxviii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Indian Institute of Sugarcane Research, Lucknow, UP

*Repeat the same format for EACH OFT being proposed.

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

12. Scientific Advisory Committee

Date of SAC meeting held during 2018-19	Proposed date during 2019-2020
5 July 2018	10 August 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	250	25	-	-	-	225	-	250	-	250	8	
Water Samples												
Other (Please specify)												
Total												

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to 31.03.2019	Expected fund requirement (Rs.)
Pay & Allowances	58,77,870	90,00,000
General Head	19,57,149	11,00,000
Capital Head (Non Recurring)	0	7,00,000
Total	78,35,019	1,08,00,000

* Any additional requirement may be suitably justified.

District Profile:

Sl. no.	Item	Information
1	Major Farming system/enterprise	Crop based farming system, Horticulture based system, Vermiculture, Organic farming system
2	Agro-climatic Zone	The climate of this zone is characterised by three distinct season i.e cool –dry winter, hot dry summer and warm wet rainy season having tropical humid to sub humid type. The average rainfall in the district ranges from 1000 to 1300 mm per annum. Average relative humidity in the morning and evening is 90 and 60 percent respectively. The land of this zone is alluvial plains having sandy loam to clay loam light in texture with neutral to alkaline in reaction (PH 7-8.5) and salt concentration is low to high. Most of the soils are very low to medium in organic carbon, available P ₂ O ₅ and K ₂ O contents. The Soil district is deficient in Zinc (66%), boron (38%) and sulphur (25%) respectively
3	Agro ecological situation	<p>Upland- Sandy loam soil, flat topography, easy in tillage operation, water table medium.</p> <p>Mid land –Loamy in texture, flat topography, low water holding capacity, water logging for a shorter period.</p> <p>Chaur land- Heavy soil, clay loam in texture, tillage a bit difficult, high water table.</p>
4	Soil type	<p>Sandy loam- Light soil, pH 7.8-8.5, low fertility status, deficient in P, K, Zn, Fe, S and B with low organic carbon.</p> <p>Loam- Medium soil, pH 8.0-8.5, low to medium fertility status, deficient in P, K, Zn, Fe, B and S, low in organic carbon.</p> <p>Clay loam- Medium to heavy texture, pH 7-8.5, low to medium fertility status, deficient in P, Zn and S with low in organic carbon</p>

5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Crops	Productivity (Kg /ha)
		Wheat-	3100
		Maize-	5200
		Paddy-	3600
		Lentil-	1157
		Moong-	860
		Mustard-	675
		Sugar Cane-	45000

6	Mean yearly temperature, rainfall, humidity of the district	Yearly Mean (April-2018) to March-19	Temperature (0°C)		R. H. (%)		Rainfall
			Max.	Min.	7 AM	2 PM	
			37.26	21.86			0.46
			35.9	26.93			0.83
			32.16	26.09			12.29
			33.00	26.00			06.35
			32.13	24.87			03.80
			31.61	20.26			0
			28.63	14.83			0
			24.52	10.71			0.03
			22.87	09.45			0.13
			26.25	11.86			0.43

			29.87	16.90			0.13
			37.20	21.87			0.23
7	Production of major livestock products like milk, egg, meat etc.	NA					

Awards:

Sl. No.	Name of the Award	Year	Conferring Authority	Amount	Purpose
1.	Fellow of CHAI award	2018	Confederation of Horticulture Association of India	-	Revived and percolated papaya cultivation in Bihar state.
2.	Excellence in Extension award	2018	Agro Environmental Development Society	-	Transferred the technology for the management of gummosis disease in mango

Facilities:

A) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Bolero Jeep	2006	440525	202723	Running
Tractor	2006	334500	1471	Running
Motorcycle (BR55B/0852)	2016	50338	2611	Running
Motorcycle (BR55B/0853)	2016	50338	2729	Running

B) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Metal Cabinet	05.12.2014	4725.00	Running	ICAR
Imprison digital	05.12.2014	13250.00	Running	ICAR
b. Farm machinery				
-	-	-	-	-

c. AV Aids				
HP-DX-2280 (INI 703537)	2007	32000.00	Out of order	ICAR
HP-MT-1000 (CN 64133070)	2007	6800.00	Out of order	ICAR
HP-15 LCD monitor (CN 631QFM8)	2007	3950.00	Running	ICAR
HP-SJ-2400P (CN-67CSR2FD)	2007		Out of order	ICAR
Laser Jet-1020 (CNCKS 17291)	2007		Out of order	ICAR
SONY Cyber Shot DSLR-A 200	14.02.2009	24990.00	Running	ICAR
L.C.D Projector	11.09.2013	73100.00	Running	ICAR
Step liger 5kv	05.06.2014	10000.00	Running	ICAR
Inverter	02.12.2013	14537.00	Running	ICAR
Battery	02.12.2013	5238.09	Running	ICAR

C) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
MF 1035 DIT	2006	328738	Running	ICAR
MF-14 disc harrow	2006	21635	Running	ICAR

MFMB Plough (4 furrow)	2006	16058	Running	ICAR
Hydraulic trailer Ajanta made	2006	62500	Running	ICAR
Cultivator 9/11	2006	9423	Running	ICAR
Cage wheel	2006	5192	Running	ICAR
Leveler	2006	7692	Running	ICAR
Viking tractor drown reaper	2011	57750	Running	ICAR
Cultivator -11tyne	2012	-	Running	ICAR
Rotavator	2012	-	Running	ICAR
Zero tillage multi crop seed cum fertilizer drill	2006	22000	Out of order	-
Zero tillage multi crop seed cum fertilizer drill (DTSD-T9)	2011	39480	Out of order	-
Gator Machine	2013	4950	Running	ICAR
Tractor operated Winnowar	2015	19300	Running	Revolving

Infrastructure:

Buildings and others

S. No .	Name of infrastructure	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building		Yes	525	Use	ICAR
2.	Farmers Hostel	Yes		305	Not	ICAR
3.	Staff Quarters (6)		Yes		Use	ICAR
4	Fencing			Yes		
5	Threshing floor	-	Damaged	15x16 sq m	Not	ICAR

Success Stories:

Name of farmer	Sri Alok Kumar Singh
Address	Villate-Khairwa darp, Block-Sheohar Dist-. Sheohar
Contact details (Phone, mobile, email Id)	9430648703
Landholding (in ha.)	10
Name and description of the farm/ enterprise	Intercropping of Sugarcane + Potato
Economic impact	Earned net profit of Rs. 979500.00 from acres Sugarcane + Potato inter cropping
His accept ability as Sugarman is farming community	
Environmental impact	Enrichment of soil
Horizontal/ Vertical spread	Medium spread of this technology

**Village- Khairba darp, Block-Sheohar,
District- Sheohar, Sate-Bihar**

1. Name of the State: Bihar

2. Name of KVK: Sheohar

3. Area of intervention (Mention only):

(i) Crop Science (Crop production, improved technology application and intercropping quality seed production, crop diversification and cultivation of high-value crops)

Improved technology application & intercropping in Sugarcane

4. Title of the technology: Sugarcane cultivation through improved techniques and intercropping with potato.

5. Agro-ecology, Farming Situation Analysis with Problem Statement (not more than 150 words):

Type of land:- Up land and mid land, Soil type:- Sandy loam and loam, PH- neutral to alkaline, Soils are low to medium in organic carbon.

Analysis of problem statement:

- (i) Traditional method of Sugarcane cultivation
- (ii) Imbalance use of fertilizer,
- (iii) Improper use of fungicide & insecticide,
- (iv) Improper use of weedicide,
- (v) Unawareness about the use of agricultural improved implements & tools.

6. Brief Description of Technology, Justification Including Innovation, if any, Implementation and Support (not more than 150 words):

CoP-2061 variety of sugarcane having high cane yield, better juice quality, more ratooning potential and resistance to insect pests and diseases was used in field of Sri Alok Kumar Singh. Paired row plantation of Sugarcane through trench method at a distance of 120 cm was adopted by him for better interception of light and also to maintain optimum plant population. Paired row sowing of potato variety K Pokhraj with early bulking character was done as an intercrop to increase productivity as well as the profitability. Sugarcane seedling production through single bud method was also adopted to maintain the optimum plant population in main crop as well as in ratoon

crop through gap filling. Sugarcane seed treatment by carbendazim @0.1%integrated with chlorpyriphos @0.3% was practiced by Sri Alok Kumar Singh.

7. Impact Analysis:

Impact factor	Before Adoption	After Adoption
Farmer Practice	Traditional method	Improved scientific method
Yield of Product	480q/ha	900/ha
Fixed Cost	-	-
Recurring Cost	72000	115000
Gross Income	139200	441500
Net Profit	67200	326500
B:C Ratio	1.93	3.8
Marketing	Sugarcane factories at Riga	Sugarcane factories and progressive farmers
Dissemination of knowledge in the locality	3%	27%
Knowledge gain based on 1- 5 scale*	2	4
Feeling of economic security based on 1- 5 scale*	2	4

Ability to understand and solve problems based on 1- 5 scale*	2	4
Self image in community based on 1- 5 scale*	3	4
Self confidence based on 1- 5 scale*	4	5

* 1- 5 scale indicates 1 = lowest and 5 = highest

8. Benefits (Economical and Social) (not more than 150 words):

These practices resulted in a bumper crop of sugarcane with higher yield and income which multiplied Alok's farm output considerably. He got a net profit of 9,79,500 lakhs from 7 acres of land by cultivating intercropping of sugarcane variety CoP 2061 with potato in scientific mode. The demand of sugarcane is high due to sugarcane factories situated near to his farm at Riga. He also sold some of the sugarcane as seed because this variety CoP 2061 became the first choice by the farmers in the district. Early uprooting of potato and selling in the market also remunerated him additionally. After getting handsome income he built own house and admitted his son in convent school. Today he is known as sugarman of this district and many farmers follow the path of Sri Alok Kumar Singh.

9. Adoption, Spread, Up Scaling of Technology and Future Projection (not more than 150 words):

A. Adoption & spread of technology

The farmers community observes about technical, Social and economical empowerment of Sri Alok Kumar and adopting the technologies applied by Sri Alok Kumar in his field. The following technologies are adopted and spreaded in the farmers fields.

S.No.		Adoption %	Spreaded in Area (ha)
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1.	Productivity and production enhancement through potential high yielding variety Cop-206	18	180
2.	Production technologies through single bud seedling production and gap filling in the main field of sugarcane	14	140
3.	Trench method of plantation	21	210
4.	Protection technologies such as sugarcane set treatment method and mode of pesticide application with proper doze & time	32	320
5.	Intercropping with potato	16	160

B. Up Scaling of technology:

- (i) Training of farmers, kishan gosthi, workshop, diagnostic visits were organized.
- (ii) Availability of quality seed of sugarcane & potato to the farmers.

C. Future projection

1. Development of integrated seed supply system in combination of systems to popularize new varieties of sugarcane and potato through creation of linkages between research institution, Public sector, private sector and farmers needed for mitigating quality seed shortage
2. Development of seed village concept as a tool to bridge the gap between the quality seed requirement & availability of quality seed involving the end users.

10. Relevant, action and attractive, clear, high resolution photographs with proper CAPTION related to success stories



Single bud removal from sugarcane set



Single bud seed treatment of sugarcane



Single bud of sugarcane placement in tray



Farmer Alok Kumar Singh in his Sugarcane field



Intercropping of Sugarcane with potato

Publications:

Name of the author (s)	Year	Title	Name of the Journal	Vol. No. & Page No.
Ram Niwas Singh et al	2018	Status of papaya viral disease incidence during kharif, rabi and summer seasons in Begusarai district of north Bihar	International Journal of Chemical Studies	7(1):2035-2039