

ACTION PLAN

(January 2021 to December 2021)



कृषि विज्ञान केन्द्र
कृषि विज्ञान केन्द्र
KRISHI VIGYAN KENDRA
NAYAGARH



ODISHA UNIVERSITY OF AGRICULTURE & TECHNOLOGY

At: Panipoila, P.O.:Balugaon, Dist.: Nayagarh, PIN :752070, Odisha.

REVISED PROFORMA FOR ACTION PLAN 2021

1. Name of the KVK:

Address	Telephone	E mail
Krishi Vigyan Kendra At-Panipoila Po-Balugaon Dist Nayagarh Pin-752070	-	kvknayagarh.ouat@gmail.com

2. Name of host organization :

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture and Technology, Bhubaneswar	0674- 2397818/2397868/2397669		

3. Training programme to be organized (January 2021 to December 2021)

(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
IPM	Pod Borer management in Pigeonpea	1	1	OFF	Jan. 21	1	1	0	0	2	3	2	4	2
IDM	Leaf curl management in Chilli	1	1	OFF	Feb 21	6	0	0	0	1	0	2	0	2
IPM	DBM in Cabbage	1	1	OFF	Feb 21	2	0	0	0	2	0	2	0	2
IPM	YMV management in Greengram	3	3	OFF	Feb 21 Nov 21 Dec 21	1	0	3	0	6	0	7	0	7
IPM	Major pest Management in Rice	1	1	OFF	July 21	4	0	0	0	2	0	2	0	2
IDM	Sheath blight Management in Rice	2	2	OFF	Sept 21 Oct 21	1	0	2	0	3	0	5	0	5
IDM	Root rot in Greengram	1	1	OFF	Nov 21	7	0	0	0	1	0	2	0	2
Integrated Nutrient Management	Integrated Nutrient Management in maize	1	1	OFF	Jan 21	2	2	0	0	1	3	2	5	2
Soil fertility management	Green manuring in sun hemp	1	1	OFF	Jun 11	3	2	0	0	1	2	2	4	2
Micro nutrient deficiency	Role of Micronutrient in cereal crops	1	1	OFF	July 21	2	0	3	0	2	0	2	0	2
Production and use of organic inputs	Role of Bio- fertilizer in Tomato Cultivation	1	1	OFF	Aug 21	2	0	3	0	2	0	2	0	2
Integrated Nutrient	Integrated Nutrient Management for	1	1	OFF	Sept 21	2	0	3	0	2	0	2	0	2

Management	Sugarcane Production													
Integrated Nutrient Management	Integrated Nutrient Management in Cole Crops	1	1	OFF	Oct 21	2	2	0	0	1	3	2	5	2
Soil fertility management	Application of nano zinc in Maize Production	1	1	OFF	Nov 21	4	1	3	3	1	2	1	6	2
Production and use of organic inputs	Fertilizer management in baby corn Cultivation	1	1	OFF	Nov 21	2	2	0	0	1	3	2	5	2
Production and use of organic inputs	Use of Vesicular Arbuscular Mycorrhizer (VAM) in Greengram & Blackgram	1	1	OFF	Dec 21	2	2	0	0	1	3	2	5	2
Value Addition	Preparation of sugarcane Jaggery.	1	1	OFF	Feb'21	1	0	5	7	9	3	1	1	2
Value Addition	Preparation of Mahua ladoo	1	1	OFF	Mar'21	2	0	3	0	2	0	2	0	2
Farm Mechanization	Mechanized threshing of pulses	1	1	OFF	Mar'21	0	2	0	3	0	2	0	2	2
Farm Mechanization	Use of Ridger for sugarcane cultivation	1	1	OFF	June 21	3	0	4	0	1	0	2	0	2
Farm Mechanization	Use of tractor drawn seed cum fertilizer drill for DSR	1	1	OFF	June'21	2	2	5	5	8	3	1	1	2
Farm Mechanization	Staking of tomato var-Arka Rakshyak with plastic mulching.	1	1	OFF	Aug'21	5	1	1	3	1	1	2	5	2
Farm Mechanization	Operation & Maintenance of harvesting implements for paddy cultivation	1	1	OFF	Sep'21	0	2	0	3	0	2	0	2	2
Hi-tech horticulture	Hi-tech horticulture	1	1	OFF	Sept 21	2	2	5	5	8	3	1	1	2
Water Conservation	Water management in tomato	1	1	OFF	Oct 21	0	2	0	3	0	2	0	2	2
Income generation	Paddy straw mushroom Cultivation using crumpled straw.	1	1	OFF	Aug21	3	2	1	1	5	1	9	1	2
Income generation	Scientific technique of paddy straw mushroom packaging	1	1	OFF	Sept21	2	2	0	0	1	9	1		2
Income Generation	Scientific technique of Finger millet cultivation	1	1	OFF	July21	0	2	0	2	0	2	0	1	2
Nutrition management	Household food security by kitchen gardening and nutrition gardening	1	1	OFF	June21	0	2	0	3	0	2	0	2	2
Income Generation	Scientific technique of marigold cultivation	1	1	OFF	Oct21	0	3	0	2	0	2	0	2	2
Bee keeping	Scientific Beekeeping	1	1	OFF	Nov 21	0	1	0	1	0	2	0	2	2

Income generation	Production of mushroom spawn	1	1	OFF	Dec 21	1	3	0	1	9	1	1	1	2
Value addition	Value addition on mushroom	1	1	OFF	Dec 21	2	2	0	1	9	1	1	1	2
Nutritional security	Design and development of low/minimum cost diet	1	1	OFF	Dec 21	0	2	0	2	0	2	0	2	2
Composite fish culture	Fish production with different carp	1	1	OFF	Jan 21	2	1	3	0	4	5	1	6	2
Integrated fish farming	Integrated fish farming	1	1	OFF	Feb 21	1	0	4	2	4	4	1	6	2
Feed and feeding management	Feeding management in fishes	1	1	OFF	Mar 21	2	1	3	0	4	5	1	6	2
Fish health management	Fish diseases and its management	1	1	OFF	Jan 21	1	0	4	2	4	4	1	6	2
Integrated fish farming	Pond based farming system	1	1	OFF	July 21	1	0	4	2	4	4	1	6	2
Fish health management	Control of Argulosis	1	1	OFF	Nov 21	1	0	4	2	4	4	1	6	2
Group dynamics	Cooperative and Contract Farming	2	2	OFF	Feb 21 Mar 21	3	0	0	0	4	0	5	0	5
Group dynamics	Leadership development or IPM	1	1	OFF	Mar 21	0	0	0	0	2	0	2	0	2
ICT	ICT in Agriculture	2	2	OFF	Mar 21 April 21	0	0	0	0	5	0	5	0	5
Entrepreneurship development	Backyard poultry for income generation	1	1	OFF	Mar 21	2	0	0	0	2	0	2	0	2
ICT	Uses of ICT in Agriculture	2	2	OFF	May 21 June 21	4	0	0	0	4	0	5	0	5
Nursery management	Forest nursery management	1	1	OFF	July 21	2	1	4	2	0	6	1	9	2
Production technologies	Growing of <i>Accacia mangium</i> for profit maximization	1	1	OFF	Aug 21	3	2	2	3	8	7	1	1	2
Production technologies	Cultivation of lemon grass	1	1	OFF	Sept 21	2	1	4	2	0	6	1	9	2
Integrated farming system	MPTs and their cultivation	1	1	OFF	Aug 21	1	0	4	2	4	4	1	6	2

(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
IPM	Safe Uses of Pesticide	2	4	Off	Mar 21 Aug 21	9	0	5	0	26	0	40	0	40
Capacity building	EDP training Agri-Horti	1	2	OFF	Mar 21	2	0	0	0	18	0	20	0	20
Soil fertility Management	Application of liquid fertilizer in vegetable crops	1	2	OFF	Sep 21	2	0	0	0	18	0	20	0	20
Farm mechanization	Repair & maintenance of Farm Implements	1	2	OFF	Sep'21	10	1	3	1	5	0	18	2	20
Farm mechanization	Safety measures in use of farm implements	1	2	OFF	Mar 21	10	1	3	1	5	0	18	2	20

Entrepreneurship development	Entrepreneurship development through farm mechanization	1	2	OFF	Mar 21	1	1	1	1	15	1	17	3	20
Vermi culture	Vermi composting by using Spent mushroom substrate.	1	2	OFF	Dec21	1	2	1	1	3	12	5	15	20
Bee Keeping	Scientific techniques of beekeeping for income generation	1	2	ON	Oct 21	3	1	0	1	8	7	11	9	20
Storage loss minimization on techniques	Storage loss pest Management techniques by using Pro super bag	1	2	ON	Feb 21	1	2	0	0	7	10	8	12	20
Carp fry and fingerling rearing	Fish seed production	1	2	ON	Mar 21	2	0	1	0	17	0	20	0	20
Planting material production	Cultivation of bamboo through culm cutting method	1	2	OFF	Aug 21	2	0	1	0	17	0	20	0	20
Organic production of inputs	Organic farming	1	4	ON	Aug-21	3	0	1	0	14	2	18	2	20
Income generation	Scientific method of Mushroom Spawn Production	1	4	ON	Nov 21	3	2	5	3	2	5	10	10	20
Farm Mechanization	Entrepreneurship development through farm mechanization	1	4	ON	Mar 21	2	0	1	0	17	0	20	0	20
Capacity Building	Entrepreneurship development through Agri-Horti system	1	4	ON	Mar 21	3	0	2	0	15	0	20	0	20
Production & management technology	Identification & cultivation of medicinal plants	1	4	ON	Aug 21	2	0	1	0	17	0	20	0	20

(C) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
SFM	Nutrient Management in rice	1	2	OFF	July21	3	0	1	0	14	2	18	2	20

Farm Mechanization	Use and Maintenance of Tractor	1	2	OFF	Mar.21	7	0	3	0	10	0	20	0	20
Nutritional security	Low cost and nutrient efficient diet designing	1	2	OFF	Nov21	0	2	0	1	0	17	0	20	20
Production and Management	Sustainable aquaculture	1	2	OFF	Mar 21	2	1	1	1	12	3	15	5	20
ICT	Management of Information System	1	2	OFF	Mar 21	0	3	0	0	5	12	5	15	20

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

Farmers and Farm women

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
I. Crop Production														
Weed Management														
Resource Conservation Technologies														
Cropping Systems														
Crop Diversification														
Integrated Farming														
Water management														
Seed production														
Nursery management														
Integrated Crop Management														
Fodder production														
Production of organic inputs														
TOTAL														
II. Horticulture														
a) Vegetable Crops														
Integrated nutrient management														
Water management														
Enterprise development														
Skill development														
Yield increment														
Prod. of low vol & high value crops														
Off-season vegetables														
Nursery raising														
Exotic vegetables like Broccoli														
Export potential vegetables														
Grading and standardization														
Protective cultivation (Green Houses, Shade Net etc.)														
TOTAL														
b) Fruits														
Training and Pruning														
Layout and Management of Orchards														
Cultivation of Fruit														

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			
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
TOTAL													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamentplants													
Propagation techniques of OrnPlants													
TOTAL													
d) Plantation crops													
Production and Manag. technology													
Processing and value addition													
TOTAL													
e) Tuber crops													
Production and Manag. technology													
Processing and value addition													
TOTAL													
f) Spices													
Production and Managtechnology													
Processing and value addition													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest techno&value additi													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management	2	7	3	10	3	3	6	30	4	34	40	10	50
Soil and Water Conservation													
Integrated Nutrient Management	3	56	6	62	6	4	10	3	0	3	65	10	75
Production and use of organic input	3	6	4	10	3	0	3	56	6	62	65	10	75
Management of Problematic soils													
Micro nutrient deficiency in crops	1	2	0	2	3	0	3	20	0	20	25	0	25
Nutrient Use Efficiency													
Soil and Water Testing													
TOTAL	9	71	13	84	15	7	22	109	10	199	195	30	225
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													

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				
Rabbit Management														
Disease Management														
Feed management														
Production of quality animal pro														
TOTAL														
V. Home Science/Women empowerment														
Household food security by kitchen gardening and nutrition gardening	2	0	41	41	0	4	4	0	5	5	0	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 thr SHG														
Storage loss minimization techniques														
Enterprise development	1	0	23	23	0	1	1	0	1	1	0	25	25	
Value addition	1	0	23	23	0	1	1	0	1	1	0	25	25	
Income generation activities for empowerment of rural Women	5	26	74	100	6	12	18	1	6	7	33	92	125	
Location specific drudgery reduction technologies														
Rural Crafts														
Capacity building														
Women and child care														
TOTAL	9	26	161	187	6	18	24	1	13	14	33	192	225	
VI.Agril. Engineering														
Installation and maintenance of micro irrigation systems														
Use of Plastics in farming practices														
Production of small tools and implements														
Farm Mechanization	7	69	47	116	13	7	20	18	21	39	100	75	175	
Repair and maintenance of farm machinery and implements	2	13	20	36	5	7	13	2	3	5	20	30	50	
Small scale processing and value addition														
Post Harvest Technology														
TOTAL	9	82	67	152	18	14	33	20	24	44	120	105	225	
VII. Plant Protection														
Integrated Pest Management	6	126	3	129	17	1	18	3	0	3	146	4	150	
Integrated Disease Management	4	75	0	75	23	0	23	2	0	2	100	0	100	
Bio-control of pests and diseases														
Production of bio control agents														

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
and bio pesticides													
Others, if any													
TOTAL	10	201	3	204	40	1	41	5	0	5	246	4	250
VIII. Fisheries													
Carp breeding and hatchery management													
Composite fish culture	1	2	1	3	3	0	3	14	5	19	19	6	25
Integrated fish farming	2	4	2	6	6	0	6	28	10	38	38	12	50
Feed and feeding management	1	2	1	3	3	0	3	14	5	19	19	6	25
Fish health management	2	4	2	6	6	0	6	28	10	38	38	12	50
Carp fry and fingerling rearing													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding, culture of ornamentafish													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Fish health management													
TOTAL	6	12	6	18	18	0	18	84	30	114	114	36	150
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 & wax													
Small tools and implements													
Production of livestock feed fodder													
Production of Fish feed													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics	3	72	0	72	3	0	3	0	0	0	75	0	75
Formation Management of SHG													
Mobilization of social capital													
Entrepreneurial development of farmers/youths	1	23	0	23	2	0	2	0	0	0	25	0	25
WTO and IPR issues													
ICT	4	96	0	96	4	0	4	0	0	0	100	0	100

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
TOTAL	8	191	0	191	9	0	9	0	0	0	200	0	200
XI Agro-forestry													
Production technologies	2	18	13	31	5	3	8	6	5	11	29	21	50
Nursery management	1	10	6	16	2	1	3	4	2	6	16	9	25
Integrated Farming Systems	1	14	4	18	1	0	1	4	2	6	19	6	25
TOTAL	4	42	23	65	8	4	12	14	9	23	64	36	100
GRAND TOTAL	55	625	273	901	114	44	159	233	86	399	972	403	1375

Rural Youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom Production													
Bee-keeping	1	15	0	15	3	0	3	2	0	2	20	0	20
Vermi-culture	1	15	0	15	3	0	3	2	0	2	20	0	20
Scientific method of Mushroom Spawn Production	1	2	2	4	1	2	3	2	1	3	5	5	20
Safe Uses of Pesticide	1	18	0	18	2	0	2	0	0	0	20	0	20
Capacity Building	1	15	0	15	3	0	3	2	0	2	20	0	20
EDP training Agri-Horti	1	18	0	18	2	0	2	0	0	0	20	0	20
SFM	1	18	0	18	2	0	2	0	0	0	20	0	20
Production & mgt. technology	1	17	0	17	2	0	2	1	0	1	20	0	20
Seed production													
Production of organic inputs	1	3	0	3	1	0	1	14	2	16	18	2	20
Planting material production	1	17	0	17	2	0	2	1	0	1	20	0	20
Sericulture													
Protected cultivat. of vegetable crops													
Com. Fruit production													
Repair and maintenance of farm machinery & implements													
Farm Mechanization	1	2	0	2	1	0	1	17	0	17	20	0	20
Nursery Management of Horticulture crops													
Training & pruning of orchards													
Value addition													
Production of quality animal produc													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
F water prawn culture													
Shrimp farming													

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Pearl culture														
Cold water fisheries														
Fish harvest & processing technolo.														
Carp fry and fingerling rearing	1	17	0	17	2	0	2	1	0	1	20	0	20	
Small scale processing														
Post Harvest Technology														
Tailoring and Stitching														
Rural Crafts														
Enterprise development														
Farm mechanization	1	5	0	5	10	1	11	3	1	4	18	2	20	
Enterprise development	1	18	0	18	2	0	2	0	0	0	20	0	20	
IPM	1	16	0	16	4	0	4	0	0	0	20	0	20	
TOTAL	15	196	2	198	40	3	43	45	4	49	281	19	300	

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													
Integrated Pest Management													
Integrated Nutrient management													
SFM	1	14	2	16	3	0	3	1	0	1	18	2	20
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													
Formation Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application	1	5	12	17	0	3	3	0	0	0	5	15	20
Farm Mechanization	1	10	0	10	7	0	7	3	0	3	20	0	20
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed fodder production													
Household food security	1	0	17	17	0	2	2	0	1	1	0	20	20
Women and Child care													
Low cost and nutrient efficient diet designing													
Production & use of organic input													
Gender mainstreaming thr SHGs													
Crop intensification													
Production and Management	1	12	3	15	2	1	3	1	1	2	15	5	20
TOTAL	5	41	34	48	15	6	21	6	2	8	76	44	100

Frontline demonstration to be conducted*

(i)

Crop :	Rice
Thrust Area:	Integrated Disease Management
Thematic Area:	Integrated Disease Management
Season:	Kharif 2021
Farming Situation:	Rainfed Medium Land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Rice	10ha	Demonstration on Sheath Blight Management in rice Spraying of Trifloxystrobin 25% + Tebuconazole 50% 75 WG twice after 30 & 60 DAT	Infected tillers /m ² % infection, Yield (q/ha), B:C ratio	Pesticides	500/ha	200/ha	2	0	1	0	7	0	10	0	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	Sheath blight Management in Rice	2	F/FW	1	Off	10	0	2	0	38	0	50	0	50
Field day	Field day on Sheath blight Management in Rice	1	F/FW, IS	1	Off	10	0	2	0	18	0	30	0	30
Farm field school	Sheath blight Management in Rice	1	F/FW	1	Off	10	0	5	0	15	0	30	0	30

(ii)

Crop :	Tomato
Thrust Area:	Integrated Disease Management
Thematic Area:	Integrated Disease Management
Season:	Rabi 2021
Farming Situation:	Rainfed Medium Land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Tomato	1ha	Demonstration on Leaf Curl Management in Tomato Dipping the roots of seedling for 15 min in Imidacloprid 200 SL @ 0.3ml/lt of water/acre for management of leaf curl vector. 15 days after planting Imidacloprid 17.8 % SL @ 60-70ml /200lt or Thiometoxam 25 WP @ 0.3 g/lt for leaf curl Vector (Whitefly) control	No. of curling leaf/plant, Yield (q/ha), BC ratio	Pesticides	150000/ha	700/ha	3	0	0	0	7	0	10	0	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants									
						SC		ST		Other		Total		T	
						M	F	M	F	M	F	M	F		
Training	Leaf Curl Management in Tomato	1	F/FW	1	Off	7	0	0	0	18	0	25	0	25	
Field day	Field day on Leaf Curl Management in Tomato	1	F/FW, IS	1	Off	10	0	2	0	38	0	50	0	50	

(iii)

Crop	Rice
Thrust Area	Production & Management
Thematic Area	Varietal Intervention
Season	Kharif, 2021
Farming Situation	Rainfed medium land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) relation in to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration									
					Name of Inputs	Demo	Loca l	SC		ST		Other		Total			
								M	F	M	F	M	F	M	F	T	
1	Rice	1 ha	Demonstration on Bio-fortified rice (var. CR 311) CR 311(Mukul) ,Medium duration (120-125 days), semi-dwarf plant type (110 cm) with long bold grain and good cooking and eating quality	Protein content (ppm), No of tillers/hill, No of grains/panicle, Yield (q/ha)	Seed	8000/ha	1200 /ha	1	0	0	0	9	0	1	0	0	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientel e	Duratio n	Venue On/Of f	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Bio-fortified rice (var. CR 311)	1	F/FW	1	Off	7	0	0	0	18	0	25	0	25
Field Day	Field day on Bio-fortified rice (var. CR 311)	1	F/FW	1	Off	10	0	5	0	15	0	30	0	30

(iv)

Crop :	Tomato
Thrust Area:	Production and use of organic input
Thematic Area:	INM
Season:	Rabi : 2021
Farming Situation:	Irrigated medium land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Tomato	1ha	Demonstration on application of liquid biofertilizer in Tomato Rhizobium, Azotobacter, Azosprillum, Phoshobacteria and water soluble biofertilizer @250ml of liquid biofertilizer in 2.5 lit/water	Yield (q/ha) No of fruits / plant	Biofertilizer	1000/ha	700/ha	5	0	3	0	12	0	20	0	20

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	Role of Bio- fertilizer in Tomato cultivation	1	F/FW	1	OFF	3	0	0	0	18	4	21	4	25
Field day	Field day on Role of Bio- fertilizer in Tomato cultivation	1	F/FW	1	OFF	10	0	2	0	18	0	30	0	30

(v)

Crop	Baby corn
Thrust Area	Varietal evaluation
Thematic Area	Varietal evaluation
Season	Rabi 2021
Farming Situation	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	Baby corn Var: Sagar	1ha	Demonstration on Baby Corn (Hybrid Baby corn in medium land situation)	No of cob/plant, Cob diameter(cm) Yield,BC Ratio	Baby corn seeds	5000 /ha	2000 /ha	1	0	0	0	9	0	10	0	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field Day	Field day on Baby corn	1	F/FW, IS	1	Off	3	0	2	0	25	0	30	0	30
Training	Fertilizer management in baby corn cultivation	1	F/FW	1	Off	2	2	0	0	18	3	20	5	25

(vi)

Crop	Sugarcane
Thrust Area	Low yield from local variety
Thematic Area	Varietal Intervention
Season	Rabi, 2021
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	Loca l	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Sugarcane	1ha	Demonstration on Sugarcane var: Charchika	Yield, Disease incidence, Sucrose %	Sugarca ne setts	7000/h a	4000 /ha	1	0	1	0	8	0	1 0	0	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	Training on sugarcane Cultivation	1	F/FW	1	Off	2	2	0	0	18	3	20	5	25
Field Day	Field day on Sugarcane var: Charchika	1	F/FW	1	Off	2	2	0	0	20	3	25	5	30

(vii)

Crop:	Poultry
Thrust Area:	Low family income
Thematic Area:	Income generation
Season:	Rabi, 2021
Farming Situation:	Homestead

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Poultry chicks	10 unit	Demonstration on poultry bird Kadaknath in backyard system for farm women Rearing of Kadaknath in backyard	Body weight at 1month, 2month, 4months and age of laying, annual egg production, morbidity rate during extreme heat condition	Kadaknath chicks	200/unit	100/unit		3	0	0	-	7	-	10	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	Rearing of poultry bird in backyard	1	F/FW	1	Off	3	2	1	1	5	13	9	16	25
Field Day	Field day on poultry bird Kadaknath in backyard	1	F/FW	1	Off	4	2	2	1	10	11	16	14	30
Farm field school	Rearing of poultry bird in backyard	1	F/FW	1	Off	2	4	2	9	9	4	13	17	30

(viii)

Crop:	Marigold
Thrust Area:	Non Availability of Marigold Flower round the year due to non-availability of improved variety
Thematic Area:	Income generation
Season:	Rabi 2021
Farming Situation:	Rainfed ,medium land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Marigold	1 ha	Demonstration on Marigold cultivation Transplanting of marigold seedling at spacing 60x45 cm, topping of apical shoots at 15 days interval three times to induce branches, application of DAP+Potash 50gram each/plant before flowering and after flowering.	Flower diameter, No. of flowers per plant, flower yield (q/ha)	Seedlings and Cuttings of marigold	15000/ha	2000/ha		2	-	1	-	7	-	10	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	Scientific technique of marigold cultivation	1	F/FW	1	Off	-	4	-	1	-	20	-	25	25
Field Day	Field Day on marigold cultivation	1	F/FW	1	Off	-	5	-	2	12	11	12	18	30
Booklet preparation	Marigold cultivation	1	F/FW	1	Off	2	4	1	-	9	4	12	8	20

(ix)

Crop:	Honey Bee
Thrust Area:	Poor availability of pure Honey round the year
Thematic Area:	Income generation
Season:	Kharif & Rabi , 2021
Farming Situation:	Homestead

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Honey Bee	10unit	Demonstration of Scientific Apiculture Cultivation by SHG. (Scientific management of <i>Apis Cerena Indica</i> (Honey extraction, colony division, swarming management, disease management))	Amount of honey extraction/ box	Apiary, Bee box with Colony	15000/unit	5000/unit		2	0	1	-	7	-	10	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	Scientific Bee keeping	1	F/FW	1	Off	-	4		1		20		25	25
Field Day	Field Day on cultivation of Apiculture	1	F/FW	1	Off	-	4	-	3	-	23		30	30
Farm field school	Scientific Bee keeping	1	F/FW	1	Off	4	4	1	3	5	13	10	20	30

(x)

Crop:	Finger Millet
Thrust Area:	Low yield due to Local variety
Thematic Area:	Income generation
Season:	Kharif 2021
Farming Situation:	Rainfed upland

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Finger Millet	1ha	Demonstration on Finger Millet for SHGs The variety having duration 126 days, yield potential 20.7q/ha, moderately resistance to leaf blast, neck blast, finger blast and brown seed.	No. of productive tillers per Plant, No. of finger per year, Days of maturity	Seed	10000/ha	2000/ha		2	0	1	-	7	-	10	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	Training on Finger Millet cultivation	1	F/FW	1	Off	-	3		1		21		25	25
Field Day	Field Day on Finger Millet Variety Arjun.	1	F/FW	1	Off	-	5	-	2	-	23	-	30	30
Farm field school	Finger Millet cultivation	1	F/FW	1	Off	4	4	1	3	5	13	10	20	30

(xi)

Crop	Tomato
Thrust Area	Suitability land for vegetable cultivation
Thematic Area	Yield increment and Weed control
Season	Kharif, 2021
Farming Situation	Rainfed Medium Land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Dem o	Loca l	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Tomato/ Arka Rakhshyak	1.0 ha	Demonstration on production of tomato through staking and plastic mulching. Staking will be done in the vertical manner with fish net as staking material with 100 micron Grey-black polythene for mulching.	No. of Fruits/plant, Avg. Fruit weight, weed count, Vegetative Parameter-plant height	Seedling, Fish net, Plastic mulch	1000 /ha	400/ ha	1	0	3	2	2	2	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	Production of tomato through staking and plastic mulching	1	F/FW	1	Off	0	5	0	3	0	17	0	25	25
Field Day	Field day on Staking of tomato with plastic mulching and Farm Field School	1	F/FW, IS	1	Off	2	2	6	2	8	10	16	14	30
Farm Field School	Production of tomato through staking and plastic mulching	1	F/FW	1	Off	2	3	6	2	8	9	16	14	30

(xii)

Crop	Mahua
Thrust Area	Post harvest Management
Thematic Area	Value addition
Season	Rabi 2021
Farming Situation	Rainfed Medium Land

Sl. No.	Crop variety & / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) relation in 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	Mahua	10 locations	Demonstration on value addition of Mahua Dried and roasted Mahua flower will be grinded. Ragi flour, sesame seeds, cashew nut will be roasted with ghee, and added to jaggery along with roasted mahua flower in the pan to make ladoos. Also cardamom powder will be added to enhance the flavor	Shelf life, taste, Colour (9-point hedonic scale)	Mahua flower, Ragi flour, Jaggery	800/unit	100/unit	1	1	4	1	3	0	8	2	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	Preparation of value added products of "Mahua".	1	F/FW	1	Off	2	0	3	0	20	0	25	0	25
Field Day	Field day on value added products of "Mahua".	1	F/FW, IS	1	Off	2	0	2	1	22	2	26	4	30
Farm Field School	Preparation of value added products of "Mahua	1	F/FW	1	Off	2	3	6	2	8	9	16	14	30

(xiii)

Crop	Sugarcane
Thrust Area	Sugarcane Mechanization
Thematic Area	Farm Mechanization
Season	Rabi,2021
Farming Situation	Rainfed Medium Land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) relation in 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	Sugarcane (Sugarcane ridger)	10 units	Demonstration on tractor drawn sugarcane ridger Making forrows and ridges by using Tractor drawn sugarcane Ridger for sugarcane planting	Yield(kg/hr), Depth of ploughing(mm), Labour Requirement (MDs/ha)	Sugarcane Ridger	500/unit	300/unit	2	0	2	2	4	0	8	2	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	Use of tractor drawn sugarcane ridger for sugarcane planting	1	F/FW	1	Off	2	2	5	5	8	3	15	10	25	
Field Day	Field day on tractor drawn sugarcane ridger for sugarcane planting	1	F/FW, IS	1	Off	7	3	2	2	8	10	15	15	30	
Farm Field School	tractor drawn sugarcane ridger for sugarcane planting	1	F/FW	1	Off	2	3	6	2	8	9	16	14	30	

(xiv)

Crop	Green gram
Thrust Area	Pulse Mechanization
Thematic Area	Farm Mechanization
Season	Rabi 2021
Farming Situation	Rainfed Medium Land

Sl. No.	Crop variety & / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) relation in 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	Greengram (Pulse Thresher)	10 locations (10Ha.)	Demonstration on mechanized pulse thresher Electric Operated, Tractor operated thresher	Yield(kg/hr) , Threshing Efficiency(%), Labour Requirement (MDs/ha)	Pulse Thresher	1000/unit	200/unit	1	0	0	1	8	0	9	1	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants									
						SC		ST		Other		Total		T	
						M	F	M	F	M	F	M	F		
Training	Mechanized pulse thresher	1	F/FW	1	Off	0	2	0	3	0	20	0	25	25	
Field Day	Field day on pulse thresher.	1	F/FW, IS	1	Off	8	4	2	2	10	6	20	10	30	
Farm Field School	Mechanized pulse thresher	1	F/FW	1	Off	2	3	6	2	8	9	16	14	30	

(xv)

Crop	Fishery
Thrust Area	Culture based fish Pond
Thematic Area	Varietal Performance
Season	Rabi, 2020
Farming Situation	Pond Based

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) relation in to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Loca l	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Fishery	10	Demonstration of Minor barb/Carp as Intercrop in Aquaculture Stocking of "Java Punti" fingerlings @2000nos/ha. along with IMC fingerlings with proper management. (Duration of Java Punti as Intercrop- 5months, Duration of Major crop IMC- 10months)	Growth rate (%), Avg. Wt (gm.) Productivity (q/ha.)	-	-	-	3	-	0	-	7	-	10	0	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientel e	Durati on	Venue On/Of f	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Composite fish culture	1	F/FW	1	Off	2	2	5	6	6	4	13	12	25
Aqua Field School	Intercrop in aquaculture	1	F/FW	1	Off	8	3	6	3	10	0	24	6	30
Booklet	Rural Aquaculture	1	F/FW											

(xvi)

Crop	Prawn
Thrust Area	Culture based fish Pond for prawn polyculture
Thematic Area	Freshwater Prawn
Season	Kharif
Farming Situation	Pond Based

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	Prawn (Freshwater Prawn, <i>M. rosenbergii</i>)	2Ha. (10nos.)	Demonstration on Polyculture of Prawn with carp Stocking of freshwater prawn PL-10,000 nos. with stunted fingerlings of Catla – 3000 nos., rohu-2000nos. grass carp-500nos. and per ha.	Survivability (%) Growth (gm.)	Prawn PL Grass carp fingerling	65000	45000	2	0	1	0	7	0	10	0	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field day	Farm Field School	1	F/FW, IS	1	Off					24	6	24	6	30
Awareness	SCSP	1	F/FW	1	Off	14	3	2	3	6	2	22	8	30

(xvii)

Crop	Forestry
Thrust Area	Agroforestry
Thematic Area	Production & management
Season	Kharif, 2021
Farming Situation	Rainfed

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	Forestry	1 ha	Demonstration of lemon grass Lemon grass cultivation in the fallow land of forest area	Growth rate (cm) Survivability (%)	Lemon grass slips	15000/ha	12000/ha	2	-	1	-	7	-	10	0	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants									
						SC		ST		Other		Total		T	
						M	F	M	F	M	F	M	F		
Training	Cultivation of lemon grass	1	F/FW	1	Off	2	1	3	0	14	5	19	6	25	
Field Day	Field day on Lemon Grass	1	F/FW	1	Off	2	3	6	2	8	9	16	14	30	
Farm Field School	Cultivation of lemon grass	1	F/FW	1	Off	2	3	6	2	8	9	16	14	30	

(xviii)

Crop	Forestry
Thrust Area	Agro forestry
Thematic Area	Integrated farming
Season	Rabi, 2021
Farming Situation	Traditional forestry

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	Forestry	1.0	Demonstration of lac Inoculation of brood lacs to the branches of host trees before swarming 50 broods/unit.	Avg. Wt (gm.) Productivity (q/ha.)	Brood lac, Sutuli, Synthetic net	18000/ha	16000/ha	3	-	0	-	7	-	10	0	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	Training on lac cultivation	1	F/FW	25	Off	8	3	6	3	10	0	24	6	30	
Field Day	Field day on lac cultivation	1	F/FW, IS	1	Off	2	3	6	2	8	9	16	14	30	
Farm Field School	Training on lac cultivation	1	F/FW	1	Off	2	3	6	2	8	9	16	14	30	

* 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 01.01.2021 to 31.12.2021	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	Hasant	Kharif	1 ha	B/S to F/S	30.00	63000	93600	30600
Green gram	IPM 2-14	Rabi	1 ha	B/S to F/S	3.00	16000	33900	17900
Vegetable Seedling	Hybrid & OP	Kharif & Rabi	100000 nos.	100000 no.	100000 no.	75000	150000	75000
Papaya Seedlings	Hybrid & OP	Kharif	2000	Hybrid & OP	2000	20000	50000	30000
Drumstick Seedlings	Bhagya	Kharif	3000 nos.	Hybrid	3000 nos.	15000	45000	30000
Forest /Medicinal Seedlings		Kharif	10000nos.		10000 nos.	80000	150000	70000
Carp	Rohu (Jayanti), Amur carp, Grass Carp		0.2	Fingerling	50000nos.	45000	200000	155000
Azolla	<i>Azolla pinnata</i>		4units	Fern	5q.	500	5000	4500
Chicks	Banaraja, Kadaknath	Kharif & Rabi	3000 no.s		3000	80000	210000	130000
Vermicompost		Kharif & Rabi	60q		50q	15000	75000	50000
Vermi wash					10lt			
Mushroom spawn			10000 bottles		10000 bottles			

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.)

4. 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	20	387	113	500	-	-	-	-	-	-	-
2.	KisanMela	2	275	125	400	-	-	-	-	-	-	-
3.	KisanGhoshi	12	180	0	180	-	-	-	-	-	-	-
4.	Exhibition	3	1200	300	1500	-	-	-	-	-	-	-
5.	Film Show	24	360	120	480	-	-	-	-	-	-	-
6.	Method Demonstrations	30	230	70	300	-	-	-	-	-	-	-
7.	Farmers Seminar	2	35	15	50	-	-	-	-	-	-	-
8.	Workshop	1	25	5	30	-	-	-	-	-	-	-
9.	Group meetings	15	140	85	225	-	-	-	-	-	-	-
10.	Lectures delivered as resource persons	30	610	140	750	-	-	-	-	-	-	-
11.	Advisory Services	50	-	-	80000	-	-	-	-	-	-	-
12.	Scientific visit to farmers field	300	-	-	1500	-	-	-	-	-	-	-
13.	Farmers visit to KVK	600	-	-	600	-	-	-	-	-	-	-
14.	Diagnostic visits	35	-	-	350	-	-	-	-	-	-	-
15.	Exposure visits	5	66	34	100	-	-	-	-	-	-	-
16.	Ex-trainees Sammelan	1	17	8	25	-	-	-	-	-	-	-
17.	Soil health Camp	1			50	-	-	-	-	-	-	-
18.	Animal Health Camp	1			50	-	-	-	-	-	-	-
19.	Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
20.	Soil test campaigns	2	80	20	100	-	-	-	-	-	-	-
21.	Farm Science Club Conveners meet	5	125	0	125	-	-	-	-	-	-	-
22.	Self Help Group Conveners meetings	6	0	78	78	-	-	-	-	-	-	-
23.	Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
24.	Celebration of important days (specify)	4	150	50	200	-	-	-	-	-	-	-
25.	Sankalp Se Siddhi	-	-	-	-	-	-	-	-	-	-	-
26.	Swatchta Hi Sewa	1	-	-	100	-	-	-	-	-	-	-
27.	Mahila Kisan Diwas	1	0	50	50	-	-	-	-	-	-	-
28.	Plant health	5	150	100	250	-	-	-	-	-	-	-
29.	Farm field school	14	320	100	420							
30.	Innovative farmers documentation	10	3	2	5	20						
31.	Awareness programme for FPO	5	80	70	150	30						
	Total	1180	4443	1485	88563	70	5	5	10	85	75	160

5. Revolving Fund (in Rs.)

Opening balance of 2020-2021 (As on 01.04.2021)	Amount proposed to be invested during 2021	Expected Return
1,50,000	-	3,00,000

6. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
INM	Trainees	1,50,000
IPM	Trainees	1,50,000
PMMSY	NFDB	50,00,000
RKVY	Govt.	25,00,000
ASCI	ICAR	4,00,000
ARYA	ICAR	25,00,000

9. On-farm trials to be conducted*

OFT: 1

I	Season	:	Kharif 2021
ii	Title of the OFT	:	Assessment of Bacterial wilt Resistant Brinjal varieties
iii	Thematic Area	:	Varietal Intervention
iv	Problem diagnosed	:	Yield unstability due to severe wilt complex in cultivable variety
v	Production system	:	Vegetable-vegetable cropping system
vi	Micro farming system	:	Irrigated Upland
vii	Technology for Testing		Brinjal var. Kalinga Brinjal (BB 67), Brinjal Var.Anushree
viii	Existing Practice	:	Cultivation of Brinjal variety Bhairabi
ix	Objective(s)	:	Evaluating of new Bacterial wilt resistant Brinjal varieties for increasing the yield
x	Treatments	:	
	Farmers Practice (FP):	:	Brinjal var. Bhairabi
	Technology Option-I (TO ₁)	:	Brinjal var. Kalinga Brinjal (BB 67), Plant height-115-130 cm, Resistant to bacterial wilt, fruit round in shape, green in colour, yield- 320-330q/ha
	Technology Option-II (TO ₂)	:	Var. Swarna shyamali, Medium size fruit(250g), green color with white strips, Resistant to bacterial wilt,yield-60-65t/ha
xi	Critical Inputs	:	Brinjal Seedling
xii	Unit Size:	:	0.1ha
xiii	No of Replications	:	10
xiv	Unit Cost	:	Rs. 1250/-
xv	Total Cost	:	Rs. 12500/-
xvi	Monitoring Indicator		Wilt Infestation (no, of plant/m ²), yield (kg/m ² , Size of the fruit (gm/fruit)
xvii	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)		OUAT, 2019

OFT: 2

i.	Season	:	Kharif & Rabi 2021
ii.	Title of the OFT	:	Assessment on production of Biofortified sweet potato varieties
iii.	Thematic Area	:	Varietal Intervention
iv.	Problem diagnosed	:	Unutilized upland area both in the kharif & rabi season
v.	Important Cause	:	Utilization of Kharif upland
vi.	Production system	:	Paddy- Fallow
vii.	Micro farming system	:	Irrigated Upland
viii.	Technology for Testing	:	To assess the production of Biofortified sweet potato varieties in the upland situation
ix.	Existing Practice	:	Farmers are not growing any crop in their upland areas during kharif and rabi season
x.	Hypothesis	:	More survival, better growth & yield, high anthocyanin content in comparison to popular varieties
xi.	Objective(s)	:	To assess the production of Biofortified sweet potato varieties
xii.	Treatments:		
	Farmers Practice (FP)	:	Cultivation of local var
	Technology Option-I (TO ₁)	:	variety- Bhu Krishna
	Technology Option-II (TO ₂)	:	variety- Bhu Sona
xiii.	Critical Inputs	:	Sweet potato roots
xiv.	Unit Size	:	0.1 ha
xv.	No of Replications	:	10
xvi.	Unit Cost	:	1000
xvii.	Total Cost	:	10000
xviii.	Monitoring Indicator	:	Tuber yield (t/ha), Dry matter(%), starch(%), Total sugar(%)
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	CTCRI, Thiruvanthapuram, Kerala, 2017

OFT: 3

i	Season	:	Kharif 2021
ii	Title of the OFT	:	Assessment on Performance of different substrates for vermicompost production
iii	Thematic Area	:	Production of organic inputs
iv	Problem diagnosed	:	Under utilization of organic wastage and scarcity of organic manure
v	Production system	:	organic manure production
vi	Micro farming system	:	Homestead
vii	Technology for Testing	:	Field Crop residue can be better utilized in vermicomposting
viii	Existing Practice	:	Organic compost local method
ix	Objective(s)	:	To increase organic status of the soil and yield
x	Treatments	:	
	Farmers Practice (FP):	:	Local method
	Technology Option-I (TO ₁)	:	Vermicomposting from cow dung+ vegetable waste (2:3)
	Technology Option-II (TO ₂)	:	Vermicomposting from cow dung+ Field Crop residue (2:3)
	Technology Option-III(TO ₃)	:	Vermicomposting from cow dung+ sal leaves (2:3)
xi	Critical Inputs	:	Vermibed, Vermin
xii	Unit Size:	:	10
xiii	No of Replications	:	10
xiv	Unit Cost	:	1000
xv	Total Cost	:	10000
xvi	Monitoring Indicator	:	NPK status (%), Conversion period(days), Conversion ratio
xvii	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	NRCM

OFT: 4

Season	:	Kharif 2021
Title of the OFT	:	Assessment on production of sweet corn varieties
Thematic Area	:	Varietal Intervention
Problem diagnosed	:	Farmers are lacking in knowledge for growing of HYV of sweet corn
Production system	:	Rice- pulse
Micro farming system	:	Irrigated Medium land
Technology for Testing	:	The Variety having duration 75 days ,yield potential 50-55 q/ha, Moderately resistance to disease and pest
Existing Practice	:	Maize-vegetable cropping system
Objective(s)	:	Growing of HYV of sweet corn instead of local var
Treatments	:	
Farmers Practice (FP):	:	Cultivation of local var
Technology Option-I (TO ₁)	:	Sugar 75
Technology Option-II (TO ₂)	:	Pusa Super sweet corn 1
Critical Inputs	:	Sweet corn Seeds
Unit Size:	:	1 Acre
No of Replications	:	10
Unit Cost	:	1000
Total Cost	:	10000
Monitoring Indicator	:	No of Cob/Plant, Cob Length, Yield and Economics
Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	IARI, New Delhi 2021

OFT: 5

i.	Season	:	Kharif, 2021
ii.	Title of the OFT	:	Assessment on Tractor Operated Seed cum Fertilizer drill for DSR (Direct seeded of rice)
iii.	Thematic Area	:	Farm Mechanization
iv.	Problem diagnosed	:	Random broadcasting of seed requires more time, more labour requirement with more incidence of weed population.
v.	Important Cause	:	Line sowing with no beusening activity results less labour requirement with less time consuming.
vi.	Production system	:	Field Based
vii.	Micro farming system	:	Rainfed
viii.	Technology for Testing	:	Tractor operated Seed cum Fertilizer drill
ix.	Existing Practice	:	Random broadcasting followed by Beusening
x.	Hypothesis	:	Less labour and time required for land preparation as it will be done by Seed cum Fertilizer drill
xi.	Objective(s)	:	To assess the tractor operated Seed cum Fertilizer drill for DSR
xii.	Treatments:		
	Farmers Practice (FP)	:	Random broadcasting followed by Beusening
	Technology option-I (TO ₁)	:	Tractor operated Seed cum Fertilizer drill with Minimum tillage
	Technology option-II (TO ₂)	:	Tractor operated Seed cum Fertilizer drill with Zero tillage
xiii.	Critical Inputs	:	Tractor operated Seed cum Fertilizer drill
xiv.	Unit Size	:	1ac.
xv.	No of Replications	:	10
xvi.	Unit Cost	:	2000
xvii.	Total Cost	:	20000
xviii.	Monitoring Indicator	:	Field capacity (ha/hr), Labour Requirement (MDs/ha) , Cost of operation (Rs/ha), Yield(q/ha), No of tillers, Seed rate(Kg), Weed count(No/m ²)
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	CAET, OUAT, 2016

OFT: 6

i.	Season	:	Rabi, 2021
ii.	Title of the OFT	:	Refinement on preparation of Suagarcane Jaggery
iii.	Thematic Area	:	Value addition
iv.	Problem diagnosed	:	Due to black in colour and poor quality of jaggery, fetching less market value and consumer acceptance.
v.	Important Cause	:	For better market value and consumer acceptance.
vi.	Production system	:	Cottage based
vii.	Micro farming system	:	Rainfed medium land
viii.	Technology for Testing	:	Vegetative clarificants with Sodium hydrosulphite (Hydros) to enhance the colour of jaggery.
ix.	Existing Practice	:	Farmers using chemical clarificants (Calcium hydroxide) for jaggery preparation
x.	Hypothesis	:	Vegetable extract results in good colour, better acceptance and better health condition..
xi.	Objective(s)	:	To assess preparation of Suagarcane Jaggery
xii.	Treatments:		
	Farmers Practice (FP)	:	Farmers using chemical clarificants (Calcium hydroxide) for jaggery in excess results in dark colour and poor market value.
	Technology option-I (TO ₁)	:	Vegetable clarificants like 500 ml. of ladies finger plant extract per 400 liters of cane juice will be used to remove scum from the boiled juice. Lime will be added to adjust the P ^H from 5.2 to 6.4 during boiling. In addition Sodium hydrosulphite (Hydros) @15g per 400lit will be added to enhance the colour of jaggery.
	Technology option-II (TO ₂)	:	Vegetable clarificants like 500 gm of groundnut paste per 400 liters of cane juice will be used to remove scum from the boiled juice. Lime will be added to adjust the P ^H from 5.2 to 6.4 during boiling. In addition Sodium hydrosulphite (Hydros) @15g per 400lit sugarcane juice will be added to enhance the colour of jaggery.
xiii.	Critical Inputs	:	ladies finger, groundnut
xiv.	Unit Size	:	10 units
xv.	No of Replications	:	10
xvi.	Unit Cost	:	1025
xvii.	Total Cost	:	10250
xviii.	Monitoring Indicator	:	Quality of Jaggery (Colour)
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, specify)	:	TNAU

OFT: 7

i.	Season	:	Kharif 21
ii.	Title of the OFT	:	Assessment of packaging practices of V. volvacea
iii.	Thematic Area	:	Income generation
iv.	Problem diagnosed	:	Distress Sale and low income due to short shelf life
v.	Important Cause	:	12 hours self life cause low income
vi.	Production system	:	Homestead
vii.	Micro farming system	:	Green shade net house and under the tree
viii.	Technology for Testing	:	Perforated Paper bag
ix.	Existing Practice	:	polythene
x.	Hypothesis	:	Paddy straw mushroom spoiled after 12 hours
xi.	Objective(s)	:	To get more lifespan of paddy straw mushroom by keeping in paper bag comparison to poly propelling
xii.	Treatments:		
	Farmers Practice (FP)	:	Without treatment of mushroom buds packing in polythene bag for selling purpose.
	Technology Option-I (TO ₁)	:	75 μ HIPS punnets can be used for packing of mushroom and transported to distant market in Modified EPS cabinet with 6kg. ice bottles placed in the separate side compartment.
	Technology Option-II (TO ₂)	:	Mushroom packing in Polypropylene bag punched with 10holes (0.5cm diameter) and transported to distant market in Modified EPS cabinet with 6kg. ice bottles placed in the separate side compartment.
xiii.	Critical Inputs	:	Perforated punnet box and perforated poly propelling bags and Modified EPS cabinet
xiv.	Unit Size	:	10 kg. mushroom
xv.	No of Replications	:	10
xvi.	Unit Cost	:	Rs 1000
xvii.	Total Cost	:	Rs 10000/
xviii.	Monitoring Indicator	:	Cost of input, Net profit, B.C. ratio. Sensory evaluation
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	PAU- 2010

OFT: 8

i.	Season	:	Kharif, 2021
ii.	Title of the OFT	:	Assessment of mushroom spawn production in improved containers
iii.	Thematic Area	:	Income generation
iv.	Problem diagnosed	:	High cost, breakable , not easy for handling and transporting of glass bottles.
v.	Important Cause	:	Transportation and handling of glass bottles
vi.	Production system	:	Homestead
vii.	Micro farming system	:	Small room
viii.	Technology for Testing	:	Polypropylene bag
ix.	Existing Practice	:	Glass bottle
x.	Hypothesis	:	Cost effective, easy to handle and transportation.
xi.	Objective(s)	:	Polypropylene bags are easily available than glass bottle.
xii.	Treatments:		
	Farmers Practice (FP)	:	Production of Mushroom Spawn in glass bottles
	Technology Option-I (TO ₁)	:	Polypropylene bag can be used for sterilizing the boiled paddy grain in the Autoclave with the temperature of 126°at 22 PSI for 2 hours and inoculation in laminar Air flow with the help U.V. light for Production of Mushroom Spawn.
xiii.	Technology Option-II (TO ₂)	:	Polypropylene bag can be used for sterilizing the boiled wheat grain in the Autoclave with the temperature of 126°at 22 PSI for 2 hours and inoculation in laminar Air flow with the help U.V. light for Production of Mushroom Spawn.
xiv.	Critical Inputs	:	Polypropylene bag
xv.	Unit Size	:	7 units
xvi.	No of Replications	:	7
xvii.	Unit Cost	:	Rs 1000
xviii.	Total Cost	:	Rs 10000/
xix.	Monitoring Indicator	:	Economy, Net profit, B.C. ratio. Evaluation
xx	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	PAU- 2010

OFT: 9

i.	Season	:	Rabi, Feb 2021
ii.	Title of the OFT	:	Assessment on performance of Improved carp “Amur” in carp polyculture system
iii.	Thematic Area	:	Varietal Evaluation
iv.	Problem diagnosed	:	Slow growth rate of Mrigal (Bottom feeder) affects the average yield in carp polyculture
v.	Important Cause	:	Less production due to poor growth of Mrigal
vi.	Production system	:	Pond based system
vii.	Micro farming system	:	Small to medium tank
viii.	Technology for Testing	:	Amur Carp
ix.	Existing Practice	:	Mrigal
x.	Hypothesis	:	Amur carp as bottom feeder having higher growth rate.
xi.	Objective(s)	:	To get maximum production comparison to common carp
xii.	Treatments:		
	Farmers Practice (FP)	:	Mrigal as bottom feeder with stocking ratio of 30% Catla: Rohu : Mrigal :: 30:40:30
	Technology Option-I (TO ₁)	:	Stocking ratio- Catla: Rohu : Mrigal :Amur carp :: 30:40:20:10
	Technology Option-II (TO ₂)	:	Stocking ratio- Catla: Rohu : Mrigal :Amur carp :: 30:40:10:20
xiii.	Critical Inputs	:	Fingerlings of Amur carp
xiv.	Unit Size	:	1 ac.
xv.	No of Replications	:	10
xvi.	Unit Cost	:	Rs. 1500
xvii.	Total Cost	:	Rs. 15,000
xviii.	Monitoring Indicator	:	Growth rate (%), Yield (q/ha), Date of maturity
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	UAS, Bangalore, 2013

OFT: 10

i.	Season	:	Kharif, 2021
ii.	Title of the OFT	:	Assessment on Control of Argulus (Lice) in Fishes in carp polyculture
iii.	Thematic Area	:	Health Management
iv.	Problem diagnosed	:	Less production due to
v.	Important Cause	:	Fish mortality due to Argulosis in carp polyculture
vi.	Production system	:	Culture based system
vii.	Micro farming system	:	Pisciculture pond
viii.	Technology for Testing	:	Different Chemicals for control of Argulus in fish
ix.	Existing Practice	:	Application of lime 100kg/ha.
x.	Hypothesis	:	Control of crustacean ectoparasite
xi.	Objective(s)	:	Removal of Argulus from freshwater fish body as well as pond ecosystem
xii.	Treatments:		
	Farmers Practice. (FP)	:	Application of lime 100kg/ha.
	Technology Option-I (TO ₁)	:	Ivermectin 2% w/w@ 250g/ 1 ton feed
	Technology Option-II (TO ₂)	:	Cypermethrin 10% EC @ 0.01 ppm in water
	Technology Option-III(TO ₃)	:	Deltamethrin 2.8% EC @ 0.02 ppm in water
xiii.	Critical Inputs	:	Chemicals for control of Argulus
xiv.	Unit Size	:	1 ac.
xv.	No of Replications	:	10
xvi.	Unit Cost	:	Rs. 1500
xvii.	Total Cost	:	Rs. 15,000
xviii.	Monitoring Indicator	:	Argulus Population / Fish, Fish Mortality (%), Argulosis Incidence (Day, Fish wt.(gm.), Yield (q/ha)
xix.	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	:	ICAR-CIFA (2018), BENFISH (2018)

*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.)
1	ARYA	20,00,000
2	SCSP	25,00,000
3	ASPIRE	100,00,000
4.	ASCI	4,00,000

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

Entrepreneurs Success story (Mushroom, Vegetable seedling, Fishery, Poultry, Vermicompost, Farm Mechanization, Women entrepreneurship)

12. Scientific Advisory Committee

Date of SAC meeting held during 2019-20	Proposed date during 2020-2021
21.11.2019	27.01.2021

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	450	20	7	20	7	346	50	386	64	450	30	450
Water Samples	50	5	5	5	5	20	10	30	20	50	10	2
Total	500	25	12	25	12	366	60	416	84	500	40	452

14. Fund requirement and expenditure (Rs.)*

Heads	Expend. (last year) (Rs.) upto Dec 2020	Expected fund requirement (Rs.)
TA	85000	100000
HRD	5000	10000
CONTIGENCY	1000000	1200000
LIBRARY	10000	10000
VEHICLE	0	0
FARM IMPLEMENT	-	10,00,000
FARM DEVELOPMENT	-	10,00,000
IFS Unit	-	10,00,000
Total	1100000	43,20,000

* 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

Dt:12.04.2021

Sd/-
(ANIL KUMAR SWAIN)
SENIOR SCIENTIST & HEAD
KVK, OUAT, NAYAGARH, ODISHA