

## **ACTION PLAN 2023**



## **KRISHI VIGYAN KENDRA MAYURBHANJ-1**

**REVISED PROFORMA FOR ACTION PLAN 2023****1. Name of the KVK: KVK Mayurbhanj-I, Odisha**

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KVK Mayurbhanj-I , At/Po- Shamakhunta, Mayurbhanj, Odisha, Pin-757049	91-8480276519 -	kvkmayurbhanj1.ouat@gmail.com/ kvkmayurbhanj-od@nic.gov.in

**2.Name of host organization : Odisha University of Agriculture & Technology**

Address	Telephone	E mail
	Office	FAX
Odisha University of Agriculture & Technology, At/Po-Bhubaneswar – 751003	0674-2392677	0674-2397780
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**3.Training programme to be organized (April 2023 to March 2024)****A. Farmers and farm women**

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
SHG management	Book Keeping and Account management of SHGs	1	1	Off Campus	19.07.2023									25
Farmers' Club Management	Formation and Management of Farmers' Club	1	1	Off Campus	09.08.2023									25
Farm mechanization	Use of different primary and secondary tillage implements	1	1	Off Campus	24.05.2023									25
Farm mechanization	Training on DSR by use of tractor drawn seed cum fertilizer drill	1	1	Off Campus	09.06.2023									25
Farm mechanization	Training on use of mechanical rice transplanter	1	1	Off Campus	11.07.2023									25
Farm mechanization	Training on use and operation of weeders for intercultural operation in line sown millet	1	1	Off Campus	17.08.2023									25
Farm mechanization	use of power operated ragi thresher	1	1	Off Campus	15.09.2023									25
Farm mechanization	Use of power weeder in paddy	1	1	Off Campus	27.09.2023									25
Micro irrigation	Use of drip irrigation in vegetable	1	1	Off Campus	11.10.2023									25
Farm mechanization	Training on manual vegetable transplanter operation	1	1	Off Campus	09.11.2023									25
Farm mechanization	Use of power operated ragi thresher cum pearler	1	1	Off Campus	14.12.2023									25
Farm mechanization	Training on use of different machineries for rice cultivation	1	1	Off Campus	15.02.2023									25
ICT	Training on rice crop manager	1	1	Off Campus	03-07-2023									25
Organic rice cultivation	Training on organic method of cultivation of rice	1	1	Off Campus	06-07-2023									25
Water conservation	Training on water harvesting methods	1	1	Off Campus	08-08-2023									25

Soil conservation techniques	Training on soil conservation techniques	1	1	Off Campus	17-8-2023												25
IWM	Training on judicious use of herbicide for green gram cultivation	1	1	Off Campus	10-9-2023												25
INM	Training on Integrated nutrient management of groundnut crop	1	1	Off Campus	13-9-2023												25
IWM	Training on judicious application of herbicide for cultivation of toria	1	1	Off Campus	11-10-2023												25
INM	Training on integrated nutrient management in potato crop	1	1	Off Campus	12-11-2023												25
Crop production	Training on Integrated nutrient management in maize cowpea intercrop	1	1	Off Campus	21-11-2024												25
IWM	Training on Integrated weed management in mechanized transplanted paddy	1	1	Off Campus	7-12-2023												25
Poultry Manangement	Management of poultry in backyard	1	1	Off Campus	15.07.2023												25
Mushroom production	Care and precautions for proper paddy straw mushroom production	1	1	Off Campus	19-07-2023												25
Nutritional security	Development of nutritional garden for nutritional security of family members	1	1	Off Campus	02-08-2023												25
Value addition	Value addition of tomato by preparing dried tomato and tomato sauce	1	2	On Campus	3 <sup>rd</sup> & 4 <sup>th</sup> Jan 2024												25
Nursery Management	Cultivation practices of Marigold	1	1	Off Campus	29-07-2023												25
Off-season vegetables	Off-Season vegetable cultivation	1	1	Off Campus	21-09-2023												25
Integrated nutrient management	Integrated nutrient management in Papaya	1	1	Off Campus	30-10-2023												25
Production of low volume and high value crops	Newly released varieties of Soalanaceous Vegetables	1	1	Off Campus	28-12-2023												25

### B. Rural youths

Thematic area	Title of Training	N o.	Dur ation	Venue On/Off	Tentative Date	No. of Participants									
						SC		ST		Other		Total			
						M	F	M	F	M	F	M	F	T	
Marketing Management	Processing, Grading , sorting, packaging, branding for effective marketing	1	2	On Campus	11 <sup>th</sup> & 12 <sup>th</sup> Oct.2023										20
FPO management	Management of FPOs and cooperative marketing	1	2	On campus	08-09.11.2023										15

Farm mechanization	Seed drill operation, adjustment of metering mechanism for different size seeds	1	3	On Campus	18..10.2023 to 20.10.2023									15
Farm mechanization	Power tiller operation, minor repairing and maintenance	1	3	On Campus	15.11.2023 to 17.11.2023									15
Organic cultivation	Rural youth training on Techniques for preparation of different types of compost	1	3	On Campus	7-9-2023 to 8-9-2023									15
INM	Rural youth training on Integrated nutrient management of cereals	1	3	On Campus	8-11-2023 to 10-11-2023									15
IWM	Rural youth training on Integrated weed management of pulses	1	3	On Campus	12-12-2023 to 14-12-2023									15
crop production	Rural youth training on Maize based intercropping systems	1	3	On Campus	10-1-2024 to 12-1-2024									15
Mushroom production	Paddy straw Mushroom cultivation techniques	3	9	On Campus	26 <sup>th</sup> to 28 <sup>th</sup> June, 11 <sup>th</sup> to 13 <sup>th</sup> July and 22 <sup>nd</sup> to 24 <sup>th</sup> August 2023									45
Mushroom Spawn production	Mushroom Spawn production technique	1	5	On Campus	11th to 15th Aug 2023									15
Mushroom production	Oyster mushroom cultivation techniques	2	6	On Campus	14th to 16th Nov and 12th to 14th Dec 2023									30
Value addition	Techniques and preparation of Value added products from Sabai	1	5	On Campus	5th to 9th Feb 2024									15
Drudgery reduction	Use of Mahua flower stamen remover.	1	1	Off Campus	6 th march 2024									25
Drudgery reduction	Care and precautions while using Mini dal Mill	1	1	Off Campus	13th march 2024									25
Value addition	Value addition of Jack fruit by preparing Jack fruit wafer.	1	2	On Campus	15th march 2024									25
Value addition	Value addition of Oyster mushroom by preparing dried mushroom and pickle	1	2	On Campus	20th and 21st Jan 2024									25
Sericulture	proper care and maintenance of grainage room	1	1	Off Campus	26th and 27th sept 2023									25
Hi-tech Horticulture	Hi-tech Horticulture & precision farming	3	3	On Campus	28-11-2023 to 30-11-2023									15
Commercial Vegetable cultivation	Commercialization of high value vegetables	3	3	On Campus	12-12-2023 to 14-12-2023									15

**C. Extension functionaries**

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
ICT technology	New initiatives in ICT tools for extension in agriculture and allied branches	1	2	On Campus	23-24.08.2023									25
Training Management	Training need assessment and formulation of training programme	1	2	On Campus	22-23.11.2023									25
Use of AV aids	Use of low cost Audio Visual aids for technology dissemination	1	2	On Campus	06-07.12.2023									25
Process Documentation	Process Documentation and Farm journalism	1	2	On Campus	29-30.12.2023									25
Farm mechanization	use of different modern farm machineries in paddy	1	2	On Campus	28.08.2023 to 29.08.2023									25
Farm mechanization	Mechanization in pulses and oilseeds	1	2	On Campus	09.01.2024 to 10.1.2024									25
Crop Production	Inservice training on sustainable agriculture	2	4	On Campus	11-7-2023 to 12-7-2023 & 01-11-2023 to 02-11-2023									50
Mushroom production	Mushroom cultivation technique and its post harvest handling for the nutritional security of the farm families	1	2	On Campus	22nd and 23rd Aug 2023									25
Drudgery reduction	Different Agricultural and allied small women friendly farm tools for drudgery reduction of farm women	1	2	On Campus	12th and 13th Sept 2023									25

**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	3												75
Resource Conservation Technologies	1												25
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													

Seed production														
Nursery management														
Integrated Crop Management														
Fodder production														
Production of organic inputs	2													50
Others (Soil and Water Conservation)	2													50
Others (INM )	2													50
<b>TOTAL</b>	<b>10</b>													<b>250</b>
<b>II. Horticulture</b>														
<b>a) Vegetable Crops</b>														
Integrated nutrient management	1													25
Water management														
Enterprise development														
Skill development														
Yield increment														
Production of low volume and high value crops	1													25
Off-season vegetables	1													25
Nursery raising														
Exotic vegetables like Broccoli														
Export potential vegetables														
Grading and standardization														
Protective cultivation (Green Houses, Shade Net etc.)														
Others, if any														
<b>TOTAL</b>	<b>3</b>													<b>75</b>
<b>b) Fruits</b>														
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)														
<b>TOTAL</b>														
<b>c) Ornamental Plants</b>														
Nursery Management	1													25
Management of potted plants														
Export potential of ornamental plants														
Propagation techniques of Ornamental Plants														
Others, if any														
<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>

<b>d) Plantation crops</b>														
Production and Management technology														
Processing and value addition														
Others, if any														
<b>TOTAL</b>														
<b>e) Tuber crops</b>														
Production and Management technology														
Processing and value addition														
Others, if any														
<b>TOTAL</b>														
<b>f) Spices</b>														
Production and Management technology														
Processing and value addition														
Others, if any														
<b>TOTAL</b>														
<b>g) Medicinal and Aromatic Plants</b>														
Nursery management														
Production and management technology														
Post harvest technology and value addition														
Others, if any														
<b>TOTAL</b>														
<b>III. Soil Health and Fertility Management</b>														
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														
<b>TOTAL</b>														
<b>IV. Livestock Production and Management</b>														
Dairy Management														
Poultry Management	1												25	
Piggery Management														
Rabbit Management														
Disease Management														
Feed management														
Production of quality animal products														
Management of Quail	1												25	
<b>TOTAL</b>	<b>2</b>												<b>50</b>	

<b>V. Home Science/Women empowerment</b>														
Household food security by kitchen gardening and nutrition gardening	1													25
Design and development of low/minimum cost diet														
Designing and development for high nutrient efficiency diet														
Minimization of nutrient loss in processing														
Gender mainstreaming through SHGs														
Storage loss minimization techniques														
Enterprise development														
Value addition	3													75
Income generation activities for empowerment of rural Women (Mushroom production)	1													25
Location specific drudgery reduction technologies	2													50
Rural Crafts														
Capacity building														
Women and child care														
Sericulture ( Care and maintenance of Grainage room)	1													25
Others (Spawn production)	1													15
<b>TOTAL</b>	<b>9</b>													<b>215</b>
<b>VI. Agril. Engineering</b>														
Installation and maintenance of micro irrigation systems	1							21	4	25	21	4		25
Use of Plastics in farming practices														
Production of small tools and implements														
Repair and maintenance of farm machinery and implements	9	32	28	60				148	17	165	180	45		225
Small scale processing and value addition														
Post Harvest Technology														
Others, if any														
<b>TOTAL</b>	<b>10</b>	<b>32</b>	<b>28</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>169</b>	<b>21</b>	<b>190</b>	<b>201</b>	<b>49</b>		<b>250</b>
<b>VII. Plant Protection</b>														
Integrated Pest Management														
Integrated Disease Management														
Bio-control of pests and diseases														
Production of bio control agents and bio pesticides														
Others, if any														
<b>TOTAL</b>														
<b>VIII. Fisheries</b>														
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 (Production & Management)														
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														
<b>X. Capacity Building and Group Dynamics</b>														
Leadership development														
Group dynamics														
Formation and Management of SHGs	1	0	10	10	0	2	2	0	1	13	0	2	25	
									3			5		
Mobilization of social capital	1	15	0	15	5	0	5	5	0	5	25	0	25	
Entrepreneurial development of farmers/youths														
WTO and IPR issues														
Others, if any (Skill Development)														
<b>TOTAL</b>	<b>2</b>	<b>15</b>	<b>10</b>	<b>25</b>	<b>5</b>	<b>2</b>	<b>7</b>	<b>5</b>	<b>13</b>	<b>18</b>	<b>25</b>	<b>25</b>	<b>50</b>	
<b>XI Agro-forestry</b>														
Production technologies														
Nursery management														
Integrated Farming Systems														
TOTAL														
<b>XII. Others (Agriculture Extension)</b>														
Farm Management	2												50	
ITK in agriculture	1												25	
Market Led Extension	1												25	

Crop Insurance	1													25
Occupational hazards and Safety Measures	1													25
Production of organic inputs	1													25
<b>TOTAL</b>	<b>7</b>													<b>175</b>

### 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	5												75
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs	1												15
Integrated nutrient management of cereals	1												15
Integrated weed management of pulses	1												15
Crop production	1												15
Planting material production													
Vermi-culture													
Sericulture													
Hi-tech Horticulture & precision farming	1												15
Commercial Vegetable cultivation	1												15
Repair and maintenance of farm machinery and implements	2	7		7				23	23	30			30
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers	1	3	2	5	4	1	5	5	5	10	12	8	20
Skill development through Management of FPO	1	4	1	5	2	1	3	5	2	7	11	4	15
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													

Pearl culture															
Cold water fisheries															
Fish harvest and processing technology															
Fry and fingerling rearing															
Small scale processing															
Post Harvest Technology															
Tailoring and Stitching															
Rural Crafts															
Enterprise development (Preparation of Value added products from Sabai)	1														15
Others(SSIGA)	1														15
Others (Mushroom Spawn Production)	1														15
<b>TOTAL</b>	<b>18</b>	<b>14</b>	<b>3</b>	<b>17</b>	<b>6</b>	<b>2</b>	<b>8</b>	<b>33</b>	<b>7</b>	<b>40</b>	<b>53</b>	<b>12</b>	<b>275</b>		

**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													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application	1	7	3	10	2	1	3	8	4	12	17	8	25
Care and maintenance of farm machinery and implements	2	15	6	21	0	0	0	18	11	29	33	17	50
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	1												15
Gender mainstreaming through SHGs													
Crop intensification													
Others (Crop Production)	2												50
Others (Drudgery reduction)	1												25

Mushroom cultivation technique and its post harvest handling	1													25
Others (Training Management)	1	5	1	6	4	3	7	8	4	12	17	8	25	
Others (Use of AV aids)	1	2	2	4	5	3	8	10	3	13	17	10	25	
Others (Process Documentation)	1	3	1	4	4	2	6	8	7	15	15	10	25	
TOTAL	11	32	13	45	15	9	24	52	29	81	99	53	265	

**Frontline demonstration to be conducted\***

<b>Crop</b>	<b>Thrust Area</b>	<b>Thematic Area</b>	<b>Season</b>	<b>Farming Situation</b>
Dragon Fruit	Export potential crop	Export potential crop	Kharif 2023	Irrigated Upland
Mango	Pre and Post Harvest Management	Pre and Post Harvest Management	Rabi 2023-24	Irrigated Upland
Finger Millet	Crop Production	Varietal evaluation	Kharif 2023	Rain fed medium land
Sesamum	Crop Production	Integrated nutrient management	Rabi, 2023-24	Irrigated, medium land(Sesamum-Rice)
Black gram	Crop Production	Integrated nutrient management	Rabi, 2023-24	Rain fed medium land (Rice-Black gram)
Greengram	Crop Production	Integrated nutrient management	Rabi, 2023-24	Rain fed medium land (Paddy-Greengram)
Paddy	Farm mechanization	Farm mechanization	Kharif 2023	Rain fed up and medium land
Ragi	Farm mechanization	Farm mechanization	Kharif 2023	Rain fed up land ,Finger millet-Fallow
Vegetable	Farm mechanization	Farm mechanization	Rabi, 2023-24	Irrigated up and medium land
Paddy	Farm mechanization	Farm mechanization	Kharif, 2023	Irrigated medium and low land
Oyster mushroom	Value addition	Income generation	Rabi, 2023-24	Homestead
Mahua flower	post harvest management	Drudgery reduction	Rabi, 2023-24	Homestead
Quail	Poultry management	Poultry management	Round the year, 2023-24	Backyard
Jack fruit	Value addition	Income generation	Rabi, 2023-24	Homestead
Paddy	Marketing management	Record Keeping for better marketing	Kharif 2023	Medium land Rainfed
Pulses and Oilseeds	Short video technology	Extension methodology	Rabi 2023-24	Medium land Irrigated

**Frontline demonstration to be conducted**

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	D e m o	L o c a l	S C		S T		O t h e r		Total			
								N	F	N	F	N	F	N	F	T	
1	Dragon Fruit	10 units	Demonstration on Dragonfruit cultivation	No of fruits/hill,Days to flowering (Duration of flowering to fruiting(Days)	-												10
2	Mango	10 plants	Demonstration on Pre & Post Harvest Managemnt of Mango Variety Hamilton Sundari of Mayurbhanj District	Time of flowering(month), Fruit set(days),No. of fruits/panicle, Days to maturity,average fruit size(gm),Colour (according to colour chart),marketprice(Rs/Kg),Consumer preferan													10
3	Finger Millet	1ha	Demonstration of Arjuna variety of finger millet	Plant height (cm), No of effective tillers/clump Yield q/ha, Cost of cultivation, Net return and BC ratio	Seed												10
4	Sesamum	1ha	Application of recommended dose of fertilizer along with biofertilizer improves yield and soil health	Number of plants per square meter, no of capsules per plant, no seeds per capsule, test weight	Biofertilizer												10
5	Black gram	1ha	Use of soil test based fertilizer application with organic integration of vermicompost @2.5 t /ha+ seed inoculation of rhizobium @ 1.25kg/25 kg of seed	Pod /Plant, Seeds/Pod, Test weight, Soil pH,NPK status (Before and After )	Biofertilizer												10
6	Green gram	1ha	Demonstration of Foliar nutrition For improving mungbean productivity	Plant height, pod yield ,stover yield, Cost of cultivation, Net return and BC ratio	Micro nutrient Boron												10
7	Paddy	2 ha	Tractor drawn seed cum fertilizer drill, 9 row, Capacity-0.35 ha/h, Line sowing	no of plants per sq mt,plant height	hired tractor												10

8	Ragi	1 ha	Use of CRIJAF weeder for intercultural operation in Ragi	AFC(ha/h), Weeding efficiency (%)	CRIJAF weeder														10
9	Vegetable	1 ha	use of single row vegetable transplanter	no of seedling planted per hr,mortality of seedlings	vegetable transplanter														10
10	Paddy	1 ha	Bullock drawn puddler for small and marginal farmers	Field capacity(ha/h),puddling index(%),cost of puddling(Rs/ha)	puddler														10
11	Oyster mushroom	10nos	Demonstration of dried oyster mushroom	Sensory evaluation (Over all acceptability by Hedonic Scale of rating) and keeping quality (month)															10
12	Mahua flower	10nos	Demonstration of power operated mahua flower stamen remover	Heart rate (Beats/min),Drudgery reduction (%)															10
13	Quail	10nos	Demonstration on Small scale quail farming	Body weight gain (Kg/month) and egg production (Nos)															10
14	Jackfruit	10nos	Demonstration on Jackfruit Bar in Solar Cabinet Dryer	Shelf life (Month), Sensory Evaluation															10
15	Paddy	15nos	Demonstration on proper farm planning including record keeping and availing better marketing opportunities	Timely Availability / delivery of inputs and technology, Suitability of technology, Ease in handling the extension method, Retention and retrieval of information, Change in income, Change in production cost, Change in knowledge, Change in skill, Change in perception,Sustainability,A doptability															15
16	Pulses and Oilseeds	15 nos	Demonstration on effectiveness of short technology videos on technology adoption	Informative,Understandable , Timeliness, Applicability, Sustainability, Change in knowledge, Change in skill, Rate of adoption, Change in income, Change in perception															15

## Frontline demonstration to be conducted

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	Dragon Fruit	10 units	Demonstration on Dragonfruit cultivation	No of fruits/hill ,Days to flowering (Duration of flowering to fruiting(Days)										10		10
2	Mango	10 plants	Demonstration on Pre & Post Harvest Management of Mango Variety Hamilton Sundari of Mayurbhanj District	Time of flowering(month), Fruit set(days),No. of fruits/panicle, Days to maturity, average fruit size(gm),Colour (according to colour chart), market price (Rs/Kg), Consumer preference										10		10
3	Finger Millet	1ha	Demonstration of Arjuna variety of finger millet	Plant height (cm), No of effective tillers/clumpYield q/ha, Cost of cultivation, Net return and BC ratio										10		10
4	Sesamum	1ha	Application of recommended dose of fertilizer along with biofertilizer improves yield and soil health	Number of plants per square meter, no of capsules per plant, no seeds per capsule, test weight										10		10
5	Black gram	1ha	Use of soil test based fertilizer application with organic integration of vermicompost @2.5 t /ha + seed inoculation of rhizobium @ 1.25kg/25 kg of seed	Pod /Plant, Seeds/Pod, Test weight, Soil pH,NPK status (Before and After )										10		10
6	Green gram	1ha	Demonstration of Foliar nutrition For improving mungbean productivity	Plant height, pod yield ,stover yield, Cost of cultivation, Net return and BC ratio										10		10
7	paddy	2 ha	Tractor drawn seed cum fertilizer drill, 9 row,Capacity- 0.35 ha/h, Line sowing	no of plants per sq mt,plant height										10		10
8	Ragi	1 ha	Use of CRIJAF weeder for intercultural operation in Ragi	AFC(ha/h), Weeding efficiency (%)										10		10

9	Vegetable	1 ha	use of single row vegetable transplanter	no of seedling planted per hr, mortality of seedlings											10		10
10	paddy	1 ha	bullock drawn puddler for small and marginal farmers	Field capacity(ha/h), puddling index(%), cost of puddling(Rs/ha)											10		10
11	Oyster mushroom	10nos	Demonstration of dried oyster mushroom	Sensory evaluation (Over all acceptability by Hedonic Scale of rating) and keeping quality (month)													
12	Mahua flower	10nos	Demonstration of power operated mahua flower stamen remover	Heart rate (Beats/min), Drudgery reduction (%)													
13	Quail	10nos	Demonstration on Small scale quail farming	Body weight gain (Kg/month) and egg production (Nos)													
14	Jack fruit	10nos	Demonstration on Jackfruit Bar in Solar Cabinet Dryer	Shelf life (Month), Sensory Evaluation													
15	Paddy	15nos	Demonstration on proper farm planning including record keeping and availing better marketing opportunities	Timely Availability / delivery of inputs and technology, Suitability of technology, Ease in handling the extension method, Retention and retrieval of information, Change in income, Change in production cost, Change in knowledge, Change in skill, Change in perception, Sustainability, Adoptability													15
16	Pulses and Oilseeds	15 nos	Demonstration on effectiveness of short technology videos on technology adoption	Informative, Understandable, Timeliness, Applicability, Sustainability, Change in knowledge, Change in skill, Rate of adoption, Change in income, Change in perception													15



**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Cli en tele	Dur ation	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field Day	Field Day on Pre & Post Harvest Management of Mango Variety Hamilton Sundari of Mayurbhanj District	1	PF	1	Off									30
Field Day	Field day on Arjuna variety of Finger Millet	1	PF	1	Off									30
Field Day	Application of recomended dose of fertilizer along with biofertilizer improves yield and soil health	1	PF	1	Off									30
Field Day	Use of soil test based fertilizer application with organic integration of vermicompost @2.5 t /ha+ seed inoculation of rhizobium @ 1.25kg/25 kg of seed	1	PF	1	Off									30
Field Day	Demonstration of Foliar nutrition For improving mungbean productivity	1	PF	1	Off									30
Field Day	Tractor drawn seed cum fertilizer drill for Line sowing of paddy	1	PF	1	Off									30
Field Day	Use of CRIJAF weeder for intercultural operation in Ragi	1	PF	1	Off									30
Field Day	use of sinngle row vegetable transplanter	1	PF	1	Off									30
Field Day	bullock drawn puddler for small and marginal farmers	1	PF	1	Off									30
Field Day	Demonstration of dried oyster mushroom	1	PF	1	Off									30
Field Day	Demonstration of power operated mahua flower stamen remover	1	PF	1	Off									30
Field Day	Demonstration on Quail farming	1	PF	1	Off									30
Field Day	Demonstration on Jackfruit Bar in Solar Cabinet Dryer	1	PF	1	Off									30
Field Day	Use of Rice expert app for updating knowledge	1	PF	1	Off									30

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

Name of the Crop / Enterprise	Variety / Type	Period From April2023 to March2024	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	Kalachampa	August to December	14.0	FS	700.0			
Vegetables	Hybrid	June to March	200sq.ft		3.5 lakhs			
Poultry chicks	Rainbow Rooster	July to January			5000 nos.			
Mushroom spawn (Paddy straw)	V.Volvacea	June to November	-		1000 nos			
Mushroom spawn (Oyster)	P. species	November to January			1000 nos			

Mushroom Production (Paddy straw & Oyster)	<i>V.Volvacea</i> & <i>P. species</i>	June to September & November to January			1.5 quintal			
Vermicompost	-	July to January			5.0 quintal			
Azolla	-	July to January			1.0 quintal			

### b) Village Seed Production Programme

Name of the Crop / Enterprise	Variety / Type	Period From March 2024 to May 2024	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.)
Green gram	IPM 2-14	March to May	50	130	CS	180.0	-	-	-

## 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	14										420
2	Kisan Mela	2										500
3	Kisan Ghosthi	2										150
4	Exhibition	2										200
5	Film Show	12										300
6	Method Demonstrations	10										150
7	Farmers Seminar	2										200
8	Workshop	1										50
9	Group meetings	30										500
10	Lectures delivered as resource persons	-										-
11	Advisory Services	50										10000
12	Scientific visit to farmers field	80										800
13	Farmers visit to KVK	250										250
14	Diagnostic visits	20										100
15	Exposure visits	1										30
16	Ex-trainees Sammelan	2										80
17	Soil health Camp	1										100

## KVK MAYURBHANJ-I

18	Animal Health Camp	1										100 animals (Large & Small)
19	Soil test campaigns	1										100
20	Farm Science Club Conveners meet	1										50
21	Self Help Group Conveners meetings	1										50
22	Mahila Mandals Conveners meetings	1										50
23	Celebration of important days (specify)	9										240
24	Swatchta Hi Sewa	5										150
25	Mahila Kisan Diwas	1										60
	<b>Total</b>	<b>499</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14530</b>

**6. Revolving Fund (in Rs.)**

<b>Opening balance of 2022-23 (As on 01.04.2022)</b>	<b>Amount proposed to be invested during 2023-24</b>	<b>Expected Return</b>
314798	1160000	1550000

**7. Expected fund from other sources and its proposed utilization**

<b>Project</b>	<b>Source</b>	<b>Amount to be received (Rs. in lakh)</b>
TSP	ICAR	20.0
CSISA	ICAR	1.0
CFLD(Oilseed) on Groundnut	ICAR	-
CFLD(Pulses) on Green gram	ICAR	-

**9. On-farm trials to be conducted\*****OFT-1:**

i	Season	Kharif 2023
ii	<b>Title of the OFT</b>	<b>Assessment of herbicide management in Pigeon Pea</b>
iii	Thematic Area	IWM
iv	Problem diagnosed	Weed menace in Pigeon Pea
v	Important Cause	Un availability of labour
vi	Production system	upland
vii	Micro farming system	Pigeon pea- vegetables
viii	Technology for Testing	integrated weed management
ix	Existing Practice	Hand weeding
x	Hypothesis	Weed management improves yield
xi	Objective(s)	Weed management reduces cost of cultivation
xii	Treatments	
	Farmers Practice (FP)	Hand weeding
	Technology option-I	Pre-emergence application of Pendimethalin (30 EC) @ 0.75 Kg a.i/ha at 3DAS followed by post-emergence application of Imazethapyr (10 SL) @ 100g a.i/ha with one hand weeding at 50 DAS
	Technology option-II	Application of Pendimethalin 30 EC @ 0.75 kg a.i/ha (pre-emergence) followed by Propaquizafop 2.5 % + Imazethapyr 3.75% @ 50+75=125 g a.i/ha at 20-25 DAS followed by one hand weeding & interculture at 50 DAS
Xiii	Critical Inputs	Herbicide
Xiv	Unit Size	0.1 Acre
Xv	No of Replications	7
Xvi	Unit Cost	Rs 1000
Xvii	Total Cost	Rs 9000
Xviii	Monitoring Indicator	Yield(q/ha), Net income, B:C, Farmers feedback
XIX	Source of Technology (ICAR/ AICRP/ SAU/ Other)	Weed count/m <sup>2</sup> , Weed control efficiency, pod number/plant, grain weight /plant, yield and BC ratio

**OFT-2:**

i	Season	Rabi 2023-24
ii	<b>Title of the OFT</b>	<b>Assessment of Decomposer for in-situ residue management in Rice</b>
iii	Thematic Area	Post harvest management
iv	Problem diagnosed	Residue problem in rice
v	Important Cause	Residue Management is a problem in Paddy
vi	Production system	Irrigated
vii	Micro farming system	Rice- black gram
viii	Technology for Testing	ICAR Decomposer and NRRI Decomposer
ix	Existing Practice	Burning of paddy residue
x	Hypothesis	Decomposition helps to improve soil properties
xi	Objective(s)	No pollution due to burning of residues
xii	Treatments	
	Farmers Practice (FP)	Harvesting of rice in combine harvester and burning of residue in the field
	Technology option-I	NRRI decomposer @ 10 capsules in 100 lit water with 2% jaggery solution for 1ha
	Technology option-II	Pusa decomposer @ 4 capsules in 25 lit of water with 2% jaggery solution and pulse powder for 1ha
Xiii	Critical Inputs	Decomposers
Xiv	Unit Size	0.1 Acer
Xv	No of Replications	7
Xvi	Unit Cost	Rs 1000
Xvii	Total Cost	Rs 7000
Xviii	Monitoring Indicator	Yield(q/ha), Net income, B:C
XIX	Source of Technology	ICAR-NRRI, 2021 & ICAR-IARI 2020

**OFT-3:**

i	Season	Rabi 2023-24
ii	<b>Title of the OFT</b>	<b>Assessment of F1 Hybrid chilli var.Arka Tejasvi (H-41) &amp; Arka Yashasvi(H-8)</b>
iii	Thematic Area	Varietal evaluation
iv	Problem diagnosed	High incidence of chilli leaf curl virus,powdery mildew & root wilt
v	Important Cause	Resistant to powdery mildew & ChLCV with a yield potential of 30-35q dry chilli
vi	Production system	(Paddy-Vegetables)
vii	Micro farming system	Irrigated medium land (paddy-vegetables)
viii	Technology for Testing	TO1-Arka Tejaswi (H-41)TO2-Arka Yashaswi(H-8)
ix	Existing Practice	Haldikhadi
x	Hypothesis	F1 Hybrid chilli varieties control disease incidence & improves yield enhancement
xi	Objective(s)	To control disease incidence & improves yield enhancement
xii	Treatments	
	Farmers Practice (FP)	Haldikhadi
	Technology option-I	Arka Tejasvi (H-41)
	Technology option-II	Arka Yashasvi (H-8)
Xiii	Critical Inputs	Seedlings
Xiv	Unit Size	0.4ha
Xv	No of Replications	07

Xvi	Unit Cost	1000
Xvii	Total Cost	7000
Xviii	Monitoring Indicator	Incidence of disease(%), Plant Height(cm), Fruit length(cm), Fresh fruit yield(q/ha)
XIX	Source of Technology	IIHR, Bangalore

**OFT-4:**

i	Season	Round the year
ii	<b>Title of the OFT</b>	<b>Assessment of Marigold varieties BM-1 &amp; BM-2 for income generation</b>
iii	Thematic Area	Export potential of Ornamental plants
iv	Problem diagnosed	Scarcity of loose flowers in the local market & dependent on Kolkata bazar
v	Important Cause	Unavailability of quality planting materials
vi	Production system	Homestead
vii	Micro farming system	Irrigated medium land (Vegetable-fallow)
viii	Technology for Testing	Marigold varieties BM-1 & BM-2 for income generation
ix	Existing Practice	Marigold variety Seracole
x	Hypothesis	Marigold varieties BM-1 & BM-2 to fetch good market demand among the tribal farmers for their livelihood support
xi	Objective(s)	To promote Newly released marigold Varieties BM-1 & BM-2 among the farming community for income generation
xii	Treatments	07
	Farmers Practice (FP)	Seracole
	Technology option-I	Bidhan Marigold-1
	Technology option-II	Bidhan Marigold-2
Xiii	Critical Inputs	Marigold planting materials
Xiv	Unit Size	0.05ha
Xv	No of Replications	07
Xvi	Unit Cost	1500
Xvii	Total Cost	10500
Xviii	Monitoring Indicator	Days to 1st flower bud appearance, number of flowers per plant, flowering duration(days)
XIX	Source of Technology	BCKV, Kalyani, 2019

**OFT-5:**

i	Season	Round the year
ii	Title of the OFT	Assessment of skip furrow irrigation in brinjal by utilizing water from farm pond
iii	Thematic Area	Water management
iv	Problem diagnosed	more water loss in farm pond due to improper irrigation water management Water shortage in farm pond during Rabi/summer
v	Important Cause	more water loss in farm pond due to improper irrigation water management Water shortage in farm pond during Rabi/summer
vi	Production system	Pond based farming system
vii	Micro farming system	Rainfed, Pond based farming system
viii	Technology for Testing	TO1-Conventional furrow irrigation TO2-Skip furrow irrigation

ix	Existing Practice	Surface Flood method of irrigation
x	Hypothesis	Skip-furrow irrigation (SFI) is a more efficient and easily implemented method by alternately irrigating two adjacent furrows
xi	Objective(s)	increasing Crop water productivity
xii	Treatments	
	Farmers Practice (FP)	Surface Flood method of irrigation
	Technology option-I	Conventional furrow irrigation
	Technology option-II	Skip furrow irrigation
Xiii	Critical Inputs	Vegetable Seedling
Xiv	Unit Size	0.13ha
Xv	No of Replications	7
Xvi	Unit Cost	1500
Xvii	Total Cost	10500
Xviii	Monitoring Indicator	Cost of intervention. Additional income over additional investment , Yield (q/ha), Crop water productivity (kg of yield/cum of water used), B:C ratio
XIX	Source of Technology	OUAT, 2020

**OFT-6:**

i	Season	Rabi 2023-24
ii	<b>Title of the OFT</b>	<b>Assessment of performance of different Ragi threshing machines for small and marginal farmers</b>
iii	Thematic Area	Farm Mechanization
iv	Problem diagnosed	More time, labour and investment in manual threshing
v	Important Cause	More time, labour and investment in manual threshing
vi	Production system	Upland, Rainfed
vii	Micro farming system	Finger millet-Fallow
viii	Technology for Testing	power operated mini ragi thresher cum pearler.
ix	Existing Practice	Manual threshing
x	Hypothesis	less time, labour and investment in threshing of ragi by power operated ragi thresher
xi	Objective(s)	to reduce the threshing cost and reduce the time of operation
xii	Treatments	
	Farmers Practice (FP)	manual hand beating
	Technology option-I	threshing by paddle operated ragi thresher
	Technology option-II	threshing by power operated ragi thresher cum pearler
Xiii	Critical Inputs	
Xiv	Unit Size	
Xv	No of Replications	7
Xvi	Unit Cost	1400
Xvii	Total Cost	9800
Xviii	Monitoring Indicator	Cost of intervention. Additional income over additional investment, Cost of operation (Rs/q)
XIX	Source of Technology (ICAR/ AICRP/ SAU/ Other)	OUAT,2020

**OFT-7:**

i	Season	Kharif, 2023-24
ii	<b>Title of the OFT</b>	<b>Assessment of the improved techniques for cultivation of Paddy straw mushroom (<i>Volvariella volvacea</i>) using crumpled straw</b>
iii	Thematic Area	Mushroom production
iv	Problem diagnosed	Less income due to low yield and high rate of bundle straw
v	Important Cause	Low Income from rearing poultry breed
vi	Production system	Homestead
vii	Micro farming system	Homestead
viii	Technology for Testing	Improved poultry breeds for production in Backyard system
ix	Existing Practice	FP: Rectangular compact method Size-45x60X45 Mushroom production by using crumpled paddy straw -5kg with normal practice (soaking in water 5hrs with 2% calcium carbonate), unknown age of spawn, 3% of dry substrate weight), pulse powder 3% dry substrate weight
x	Hypothesis	Increase in production and income
xi	Objective(s)	To increase in production and income
xii	Treatments	
	Farmers Practice (FP)	FP: Rectangular compact method Size-45x60X45 Mushroom production by using crumpled paddy straw -5kg with normal practice (soaking in water 5hrs with 2% calcium carbonate), unknown age of spawn, 3% of dry substrate weight), pulse powder 3% dry substrate weight
	Technology option-I	TO <sub>1</sub> : Square compact bed size (30x30 cm) Mushroom production by using crumpled paddy straw 5kg, soaking of straw in water for 5hrs in 2% CaCo <sub>3</sub> , 14-20 days age spawn at 2% of dry substrate weight and horse gram powder(at 3% dry substrate weight)
	Technology option-II	TO <sub>2</sub> : Circular compact bed size -(45 cm diameter, 45 cm height) Mushroom production by using crumpled paddy straw 5kg, soaking of straw in water for 5hrs in 2% CaCo <sub>3</sub> , 14-20 days age spawn at 2% of dry substrate weight and horse gram powder (at 3% dry substrate weight)
Xiii	Critical Inputs	Paddy straw mushroom spawn and Bengal gram flour
Xiv	Unit Size	
Xv	No of Replications	7
Xvi	Unit Cost	715
Xvii	Total Cost	5005
Xviii	Monitoring Indicator	B.C. Ratio, Net income
XIX	Source of Technology (ICAR/ AICRP/ SAU/ Other)	Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore,2012)

**OFT-8:**

i	Season	Kharif, 2023
ii	<b>Title of the OFT</b>	<b>Assessment of humidity management in paddy straw mushroom production</b>
iii	Thematic Area	Mushroom production
iv	Problem diagnosed	Low yield due to improper production technique



v	Important Cause	Low yield of paddy straw mushroom
vi	Production system	Homestead
vii	Micro farming system	Homestead
viii	Technology for Testing	Humidity management in paddy straw mushroom production
ix	Existing Practice	Mushroom production by using bundled paddy straw substrate (3 layers) with normal practice (soaking of 7kg straw in water for 10-12hrs, bed preparation with addition of spawn and pulse powder 3%)
x	Hypothesis	Proper humidity management by covering the floor with sand in moist condition, spreading wet gunny bag along windows/walls and with Installation of Fogger so that production of mushrooms can be increased.
xi	Objective(s)	For generation of more income by humidity management in paddy straw mushroom production.
xii	Treatments	
	Farmers Practice (FP)	Mushroom production by using bundled paddy straw substrate (3 layers) with normal practice (soaking of 7kg straw in water for 10-12hrs, bed preparation with addition of spawn and pulse powder 3%)
	Technology option-I	Mushroom production by using bundled paddy straw substrate (3 layers) with covering the floor with 2 inch sand in moist condition and spreading wet gunny bag along the windows/ walls
	Technology option-II	Mushroom production by using bundled paddy straw substrate (3 layers) with Installation of Fogger and hanging of folding type of Gunny bag outside the shade net.
Xiii	Critical Inputs	Fogger
Xiv	Unit Size	
Xv	No of Replications	7
Xvi	Unit Cost	7500
Xvii	Total Cost	15000
Xviii	Monitoring Indicator	B.C. Ratio, Net income
XIX	Source of Technology	CTMRT,OUAT, 2015

**OFT-9:**

Title	Assessment of effectiveness of different extension methods to access information on rice production		
Season & Year	Kharif, 2023	No. of Trials	5+5+5
Crop	Rice	Farming Situation	Irrigated medium land
Problem diagnosed	Poor accessibility to accurate and timely information on technical knowledge /advisory in rice production	Spread and intensity of problem	District specific rice area in the farming situation
FP	Farmers getting information from peer group, input dealers, extension functionaries, mass media and KMA		
T O <sub>1</sub>	FP + Short Video Lectures + Focus Group discussion		Source : NRRI, Cuttack.2017
T O <sub>2</sub>	FP + Using the ”riceXpert” App.		

Characteristics of technology	TO1: Delivering need based technology through Video lecture followed by focus group discussion along with traditional existing extension methods would provide need based information, skill and objective clarification through FGD, along with traditional existing mechanism of transfer of technology		
	TO2: Providing timely & need based information to farmers regarding situation specific rice varieties, crop management, farm machineries, nutrient and pest management, post harvest management etc., through rice XpertApp along with traditional existing mechanism of transfer of technology		
Observation Parameters	Informative, Understandable, Timeliness, Applicability, Sustainability	Performance Indicator	Change in income, Change in production cost, Change in knowledge, Change in skill, Change in perception, Sustainability, Adoptability

**OFT-10**

Title	Assessment of adoption rate and sustainability of direct seeded rice methods		
Season & Year	Kharif,2023	No. of Trials	N=5+5+5
Crop	Rice	Farming Situation	Rainfed, medium land
Problem	Poor adoption of mechanised DSR in the district in spite of introduced since few years by different agencies		
F P	Practice of manual DSR i.e. broadcasting		
TO <sub>1</sub>	Practice of seed sowing by drum seeder		
TO <sub>2</sub>	Practice of mechanised DSR		
Characteristics of technology	TO1: Line sowing of pre germinated rice seeds by drum seeder manually on the wet bed TO2: Direct sowing of seeds mechanically by the tractor drawn seed drill		
Observation Parameters	Coverage in acreage, Rate of adoption, Timeliness, Applicability, Sustainability, Availability, Constraints analysis	Performance Indicator	Change in yield, Change in income, Change in production cost, Change in knowledge, Change in skill, Change in perception

**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	Pulse Seed Hub(Green gram)	3lakh

**11. No. of success stories proposed to be developed with their tentative titles- 02****12. Scientific Advisory Committee**

Date of SAC meeting held during 2022-23	Proposed date during 2023-24
24.11.2022	30.10.2023

**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	100									230	15	
Water Samples												
Other (Please specify)	-											
Total	100									230	15	

**14. Fund requirement and expenditure (Rs.)\***

Heads	Expenditure (last year) (Rs. in lakh) up to 31.03.2023	Expected fund requirement (Rs. in lakh)
i. Pay & allowance	92.113986	135.0
ii. Contingency	20.50000	22.0
iii. TA	1.779	2.0
iv. HRD	-	-
Non-recurring (specify)		
i. Works (Road, threshing floor, drying yard, vehicle and implement shed, irrigation system etc.)	-	10.0
iv. Furniture & Equipment	1.80-	2.0
v. Farm Implements	-	20.0
vi. Library	0.10	0.10
<b>Total</b>	<b>116.293</b>	<b>191.1</b>

**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**

**16. TRIBAL SUB PLAN ACTIVITY 2023****1. HYBRID GYNO-DIOECIOUS PAPAYA BASED NUTRITIONAL GARDENING IN BACKYARD CONDITION**

Name of the Technology	:	Hybrid Gyno-dioecious Papaya based nutritional gardening in backyard condition
Problem	:	Unavailability of balanced diet (green vegetables) in the plates of tribal people due to low purchasing power causing malnutrition
Intervention	:	Supplying Gyno-dioecious Variety papaya-: (Hybrid-Red lady) and vegetables (improved varieties/hybrids) in backyard
Beneficiary	:	200nos
No. of Units	:	20groups(10members in each group)
Unit Size	:	400 nos. of Papaya plants and 10000 nos. of vegetable seedlings per group
Input requirement including the cost	:	Papaya seedlings 8000 nos. @ Rs. 20 per plant - <b>Rs. 1,60, 000/-</b> + Vegetable seedlings 2,00,000 nos. @ Rs. 1 per seedling - <b>Rs. 2,00, 000/-</b>
Total Cost	:	Rs.3 ,60, 000/-
Expected Outcome	:	By inclusion with fresh vegetables in the diet will solve the problem of malnutrition as well as it will reduce the daily cooking cost of tribal people

**2. BREED REPLACEMENT BY SYNTHETIC DUAL PURPOSE FREE RANGE IMPROVED POULTRY BREEDS**

Name of the Technology	:	Breed replacement by synthetic dual purpose free range improved poultry breeds
Problem	:	Low output of desi poultry birds due to lower growth rate and egg laying capacity
Intervention	:	Breeds such as Rainbow Rooster
Beneficiary	:	300 nos.
No. of Units	:	30 groups
Unit Size	:	100 nos. birds to each group of ten members
Input requirement including the cost	:	21 days old chicks @ Rs. 75/- per chick for 3000 nos chicks(100 chicks/ groups)
Total Cost	:	Rs. 2,25, 000/-
Expected Outcome	:	Socio-economic development of tribal people through additional income generation activity by means of rearing improved poultry breeds having more output in terms of growth and egg laying capacity

**3. DEMONSTRATION OF COMMUNITY BASED NURSERY RAISING BY ENGAGING MIGRANT LABOURERS FOR LIVELIHOOD SUPPORT**

Name of the Technology	:	Demonstration of community based nursery raising by engaging migrant labourers for livelihood support
Problem	:	Unemployment due to pandemic situation of covid-19 . Returnee of covid-19 affected migrant labourers don't have income to sustain their livelihood
Intervention	:	Supplying 200 micron UV stabilized polythene(7mtx10mt) to each group.
Beneficiary	:	100 nos/4 groups.
No. of Units	:	280m <sup>2</sup> (7mtx10mt polythene(200 micron UV stabilized) to each group )
Unit Size	:	7mtx10mt polythene(200 micron UV stabilized) to each group of 25 Members.
Input requirement including the cost	:	200 micron UV stabilized polythene(7mtx20mt) =Rs 9,800/- (one roll) =Rs 9,800/- (one roll)
Total Cost	:	Rs 19,600/-
Expected Outcome	:	By inclusion with fresh vegetables in the diet will solve the problem of malnutrition as well as it will reduce the daily cooking cost of tribal people

**4. NUTRITIONAL SECURITY OF THE TRIBAL FAMILIES THROUGH MUSHROOM CULTIVATION**

Name of the Technology	:	Nutritional Security of the tribal families through Mushroom cultivation
Problem	:	Lack of nutritional security due to low purchasing power causing malnutrition
Intervention	:	Paddy straw and Oyster Mushroom cultivation
Beneficiary	:	20 groups ( 200 beneficiaries )nos.
No. of Units	:	20 groups (10 groups paddy straw mushroom and 10 groups Oyster mushroom )
Unit Size	:	100 nos. mushroom spawn, to each group of ten members
Input requirement including the cost	:	One mushroom spawn @ Rs. 15/- per spawn for 2000 mushroom spawn (100 Mushroom spawn (Paddy straw /Oyster)/ groups) -30,000/- Other Inputs (Bengal gram flour, white polythene sheet and white polythene bag)- Rs. 10,000 Total – Rs. 30,000/- + Rs. 20,000/- = Rs. 50,000/-
Total Cost	:	Rs. 50, 000/-
Expected Outcome	:	Nutritional security and Socio-economic development of the tribal farm families by means of mushroom production.