REVISED PROFORMA FOR ACTION PLAN 2023

1. Name of the KVK: Nabarangpur

Address	Telephone		E mail
KVK,Nabarangpur P.O-Badakumari,Umerkote Dist.-Nabarangpur,Odisha Pin-764073	06866270530	06866270530	nabarangapurkvk@yahoo.co.in kvknabarangapur.ouat@gmail.com

2.Name of host organization : OUAT, Bhubaneswar

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture & Technology,Bhubaneswar-751003,Odisha	0674-2397362	0674-2397362	deanextensionouat@yahoo.com

3.Training programme to be organized

(a) Farmers and farmwomen

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month/ Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
ICM	Improve package and practices of Rice cultivation	1	1 day	OFF	June	5	-	15	5	-	-	20	5	25
ICM	Improve package of practices of Pulses (Blackgram, Arhar)	1	1 day	OFF	June	5	-	15	5	-	-	20	5	25
ICM	Improve package of practices of Maize	1	1 day	OFF	June	5	-	15	5	-	-	20	5	25
Vermitechnology	Production techniques of Vermicompost	1	1 day	OFF	July	5	-	15	5	-	-	20	5	25
Organic Farming	Organic Farming	1	1 day	OFF	July	5	-	10	5	5	-	20	5	25
ICM	Scientific method of finger millet cultivation	1	1 day	OFF	July	5	-	15	5	-	-	20	5	25

NUE	Use of soluble fertilizer in agriculture	1	1 day	OFF	August	5	-	15	5	-	-	20	5	25
ICM	Scientific method of Sunflower cultivation	1	1 day	OFF	September	5	-	15	5	-	-	20	5	25
IFS	Integrated Farming System	1	1 day	OFF	September	5	-	10	5	5	-	20	5	25
IWM	Integrated weed management in maize	1	1 day	OFF	July	5	-	15	5	-	-	20	5	25
IWM	Integrated weed management in direct seeded rice	1	1 day	OFF	July	5	-	15	5	-	-	20	5	25
IWM	Integrated weed management in transplanted rice	1	1 day	OFF	July	5	-	15	5	-	-	20	5	25
Vegetable cultivation	Production technology of kharif Onion	1	1 day	OFF	May	-	-	35	15	-	-	35	15	25
Fruit production	Commercial fruit production	1	1 day	OFF	August	-	-	18	7	-	-	18	7	25
Nursery management	Quality seedling production of vegetables in protray	1	1 day	OFF	July	-	-	18	7	-	-	18	7	25
Vegetable cultivation	Off-season tomato cultivation	1	1 day	OFF	August	-	-	18	7	-	-	18	7	25
Vegetable cultivation	Off-season cauliflower cultivation	1	1 day	OFF	November	-	-	18	7	-	-	18	7	25
Vegetable cultivation	Production technology of tropical tuber crops	1	1 day	OFF	November	-	-	18	7	-	-	18	7	25
IDM	Integrated Disease management in direct seeded rice	1	1 day	OFF	July	5	5	10	5	0	0	15	10	25
IPM	Integrated Pest management in	1	1 day	OFF	July	5	5	10	5	0	0	15	10	25

	transplanted rice													
IPM	Fall Army Worm management in maize	1	1 day	OFF	July	5	5	10	5	0	0	15	10	25
IPM	Stem Borer management in Maize	1	1 day	OFF	July	5	5	10	5	0	0	15	10	25
IDM	Integrated Disease management in Pulse	1	1 day	OFF	June	5	5	10	5	0	0	15	10	25
IDM	Tikka Disesase Management in Groundnut	1	1 day	OFF	October	5	5	10	5	0	0	15	10	25
IDM	BLB management in Rice	1	1 day	OFF	October	5	5	10	5	0	0	15	10	25
IPM	Storage Pest Mangement in Rice	1	1 day	OFF	June	5	5	10	5	0	0	15	10	25
IPM	Management of Onion Thrips in onion	1	1 day	OFF	November	5	5	10	5	0	0	15	10	25
IPM	Management of Shoot And Fruit borer in Brinjal	1	1 day	OFF	June	5	5	10	5	0	0	15	10	25
IDM	Management of BacterialWilt in Tomato	1	1 day	OFF	October	5	5	10	5	0	0	15	10	25
IDM	Blast Management in Rice	1	1 day	OFF	October	5	5	10	5	0	0	15	10	25
Agricultural Engineering	Use of Tractor drawn Multi crop Seed cum fertilizer drill	1	1	OFC	June									25
Agricultural Engineering	Use of bullock drawn puddler for puddling in rice fields	1	1	OFC	July									25
Agricultural Engineering	Use of gender friendly implements for drudgery reduction	1	1	OFC	July									25
Agricultural Engineering	Use of Wet Land Power Weeder for	1	1	OFC	August									25

	weeding in Paddy													
Agricultural Engineering	Use of different plant protection equipments	1	1	OFC	August									25
Agricultural Engineering	Use of single row vegetable transplanter	1	1	OFC	September									25
Agricultural Engineering	Use of different harvesting,dehusking and shelling implements in maize	1	1	OFC	October									25
Agricultural Engineering	Use of pedal and power operated paddy thresher with safety cover	1	1	OFC	November									
Agricultural Engineering	Use of different sowing implements in maize	1	1	OFC	December									25
Agricultural Engineering	Use of power operated OUAT ragi thresher	1	2	OFC	January									25
Agricultural Engineering	Use of power operated OUAT maize dehusker cum sheller	1	1	OFC	January									25
Agricultural Engineering	Use of fruit harvester	1	1	OFC	February									25
Formation of social Institutions	Formation, management and strengthening of SHG, FIG, CIG, JLG and WIG	2	3	On/off	May									50
Effective utilization of resources	Agro-forestry model and its importance on livelihoods	1	2	On	June									25
Institutional Development	Formation of Farmers Producer Organization	1	2	On	July									25
Technology Transfer	Adoption of climate-resilient practices for sustainable agriculture	1	2	On	August									25
Technology Transfer	Production led extension to market led extension	1	1	Off campus	September									25
Technology Transfer	New dimension of extension approaches	1	1	On campus	October									25

Farm to Fork	Collective marketing for higher income and profit	1	1	Off campus	August									25
Fodder production	Fodder cultivation for big and small ruminants	1	1	Off campus	August									25
Soil and water conservation	In-situ moisture conservation technologies for better land and water management	1	1	Off campus	June									25
Rural Entrepreneurships	Rural Entrepreneurships development through income generating activities	1	1	Off campus	July									25
Rural Entrepreneurships	Development of Integrated farming system for small & marginal farmers	2	2	Off campus	August									50
Management of natural Resources	Conservation and Management of Natural Resources	1	1	Off campus	August									25

(b) Rural youths

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
IFS	IFS and weed management in major field crops	1	2 days	ON	June	5	-	5	-	5	-	15	-	15
Vermitechnology	Vermitechnology	1	2 days	ON	July	5	-	5	-	5	-	15	-	15
SFM	Identification techniques of Nutrient deficiency in crop plant and their remedies	1	2 days	ON	August	5	-	5	-	5	-	15	-	15
ICM	Commercial crops production and non-land based farming for	1	2 days	ON	October	5	-	5	-	5	-	15	-	15

	rural youth													
Protected cultivation	Protected cultivation of vegetable crops	1	2 days	ON	June	-	-	11	4	-	-	11	4	15
Protected cultivation	Protected cultivation of flower crops	1	2 days	ON	August	-	-	11	4	-	-	11	4	15
In come generation	Honeybee keeping for income Generation	1	2days	ON	September	5	-	5	-	5	-	15	-	15
Safe use of Pesticides	Safe use of Pesticides	1	2days	ON	October	5	-	5	-	5	-	15	-	15
Income generation	Paddy straw mushroom cultivation for income generation	1	2 days	ON	Aug.	0	5	0	5	0	5	0	15	15
Income generation	Oyster mushroom cultivation for income generation	1	2 days	ON	Nov.	0	5	0	5	0	5	0	15	15
Agricultural Engineering	Operation and maintenance of mini dry land power weeder for maize	1	2 days	ONC	June									15
Agricultural Engineering	Agro custom hiring center for slef employment	1	2 days	ONC	September									15
Agricultural Engineering	Minor repairing and maintenance of Farm mechinery	1	2 days	ONC	October									15
Agricultural	Use of micro irrigation	1	2 days	ONC	November									15

Engineering	system in different crops													
Agri-preneurship Development	Agri-preneurship Development towards self sufficiency	1	2 days	On	25.8.2023 26.8.2023	1	1	1	1	8	3	10	5	15
Value Chain	Value Chain analysis of major Agril. Commodities	1	2 days	On	26.10.2023 27.10.2023	1	1	0	0	8	5	9	6	15
Climate smart agriculture	Climate smart agriculture for sustainable development	1	2 days	On	15.11.2023 16.11.2023	1	1	1	1	8	3	10	5	15
Agriculture Innovation	New Dimension of Agriculture for all-round development	1	2 days	On	20.12.2023 21.12.2023	1	1	0	0	8	5	9	6	15

(c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Weed management	Weed management in major field crops and plant growth regulators	1	3 days	ON	November	-	-	-	-	7	3	7	3	10
SFM	Identification techniques of Nutrient deficiency in crop plant and their remedies	1	3 days	ON	December	-	-	-	-	7	3	7	3	10
IPM	Pest management in Pulse	1	3 days	ON	October	-	-	-	-	7	3	7	3	10
IPM	Pest management in Oilseed	1	3 days	ON	October	-	-	-	-	7	3	7	3	10

Agricultural Engineering	Use of improved farm mechinery for maize cultivation	1	1 days	ONC	August										10
Agricultural Engineering	Use of different harvesting,threshing implements for paddy	1	1 days	ONC	November										10
Agricultural Engineering	Use of advanced farm mechinery for hi-tech cultivation	1	1 days	ONC	February										10
Group dynamics	Formation & management of Farmer producer Organization	1	1	On	10.11.2023	1	1	0	0	5	3	6	4	10	
Application of ICTs	Use of ICT (Information Communication Technology) in Agriculture	1	1	On	13.12.2023	1	1	0	0	5	3	6	4	10	

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	12												300
Weed Management	2												50
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification	1												25
Integrated Farming	1												25
Water management													
Seed production													
Nursery management													
Integrated Crop Management	4												100
Fodder production													
Production of organic inputs	3												75
Others, (cultivation of crops)	1												25
TOTAL													
II. Horticulture													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables	2												50
Nursery raising	1												25
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
TOTAL													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit	1												25
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Commercial flower cultivation													
TOTAL													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													

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													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology	1												25
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Soil and Water Testing													
Others, if any													
TOTAL													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any (Goat farming)													
TOTAL													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any-Herbal garden for health security													

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													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements	12												300
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
TOTAL													
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													

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
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
TOTAL													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs	3												75
Mobilization of social capital	9												225
Entrepreneurial development of farmers/youths	1												25
WTO and IPR issues													
Others, if any	1												25
TOTAL													
XI Agro-forestry													
Production technologies													

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
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL													

Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													
Integrated farming	1												15
Seed production													
Production of organic inputs													
Sorage Technology													
Planting material production													
Vermi-culture	1												15
Sericulture													
Protected cultivation of vegetable crops	1												15
Commercial fruit production	1												15
Repair and maintenance of farm machinery and implements	2												30
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													

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
Safe use of Pesticides													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Tailoring and Stitching													
Rural Crafts													
Others if any (ICT application in agriculture)	7												105
TOTAL													

Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management	1												10
Soil Fertility Management													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													

Formation and Management of SHGs	1												10
Care and maintenance of farm machinery and implements	2												20
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													
Crop intensification													
Others if any	2												20
TOTAL													

4. FLD: 1

Crop: Finger millet
Thrust Area: Weed management
Thematic Area: Weed management
Season: Kharif, 2023
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**								
								SC		**ST**		**Other**		**Total**		
					Name of Inputs	**Demo**	**Local**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
1	Finger millet	4	**Pre-emergence application of (Bensulfuron methyl 0.6%+**	**Plant height(cm), no.tillers/ plant(nos.), no. of fingers/ea**	Bensulfuron methyl 0.6%+ pretilachlor 6%, 2,4-D										0	10

			pretilachlor 6%) at 0.66kg/ha at 2 DAT fb 2,4-D ethyl ester 0.50 kg/ha at 30 DAT.	**r, Ear wt.(g), Yield(q/ha), Net Return, B: C ratio**	ethyl easter											

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**
F & FW training	Integrated weed management in finger millet	1		1 day	off									25

FLD: 2

Crop: Black gram
Thrust Area: Weed management
Thematic Area: Weed management
Season: Kharif, 2023
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**								
								SC		**ST**		**Other**		**Total**		
					Name of Inputs	**Demo**	**Local**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
1	Black gram	4	**Application of Pendimethalin @ 1**	**Plant height(cm), no. of branches**	Pendimethalin, Imazet											10

			kg a.i/ha as pre emergence + Imazethapyr @ 75 g a.i/ha as post emergence at 20 DAS	**(nos.)/plant, no. of pods/plant, Yield(q/ha), Net Return, B: C ratio**	hapyr											

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**
F & FW training	Integrated weed management in Black gram	1		1 day	off									25

FLD: 3

Crop: Finger millet
Thrust Area: Varietal substitution
Thematic Area: Varietal substitution
Season: Kharif, 2023
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 demonstr**	**Cost of Cultivation (Rs.)**			**No. of farmers / demonstration**								
								SC		**ST**		**Other**		**Total**		
					Name of Inputs	**Demo**	**Local**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**

				ated												
1	Finger millet	4	**Finger millet variety Arjun (OEB 526)** **(**Maturity duration 110 days and average yield 20.7q/ha. with moderate resistance to leaf, neck and finger blast and brown seed)	**Plant height(cm), no.tillers/ plant(nos.), no. of fingers/ear, Ear wt.(g), Yield(q/ha), Net Return, B: C ratio**	Finger millet var. Arjun											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**
F & FW training	Package and practices of finger millet cultivation	1		1 day	off									25

FLD:4

Crop: Maize
Thrust Area: Weed management
Thematic Area: Weed management
Season: Kharif, 2023
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								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
1	Maize	4	**Pre-emergence application of Atrazine @ 1.5 kg a.i/ha + Tembotrione (Laudis) 120g a.i/ha at 25 DAS**	**Plant ht.(cm), Weed biomass(g /m^{2,}), WCE (%), Yield(q/ha) , Economics, B:C ratio**	Atrazine, Tembotrione											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
F & FW training	Weed management in Mize	1		1 day	off									25

FLD: 5

Crop: Maize
Thrust Area: Agril. Engineering
Thematic Area: Farm Mechanization
Season: Kharif, 2023
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	Maize	0.2	Demonstration on mini dry land power weeder for maize	Field capacity (ha/h), Weeding Efficiency (%), Plant damage percentage (%), Fuel consumption (l/h), Cost of weeding Rs./ha), Labour requirement (man-days/ha)	mini dry land power weeder for maize	57000	65000	2	1	3	2	2	0	7	3	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 mini dry land power weeder for maize	1	Rural youth	3 day	On	3	1	10	5	4	2	17	8	25
Field day	Field day on mini power weeder for maize	1	F&FW	1 day	Off	5	1	30	5	7	2	42	8	50

FLD: 6

Crop: Ragi
Thrust Area: Agril. Engineering
Thematic Area: Farm Mechanization
Season: Kharif, 2023
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	Ragi	0.2	Demonstration on power operated OUAT ragi thresher cum pearler.	Capacity(kg/h), labour requirement(man-days/ha),Threshing efficiency(%), Cleaning efficiency(%), Cost of operation: (Rs. /q)	Power operated OUAT ragi thresher cum pearler.	-	-	1	0	6	2	1	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 power operated OUAT ragi thresher cum pearler.	1	F&FW	1 day	Off	3	1	10	5	4	2	17	8	25
Field day	Field day on power operated OUAT ragi thresher cum pearler.	1	F&FW	1 day	Off	5	1	30	5	7	2	42	8	50

FLD: 7

Crop: Vegetables
Thrust Area: Agril. Engineering
Thematic Area: Farm Mechanization
Season: Rabi, 2023-24
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	Vegetables	0.2	Demonstration on single row vegetable transplanter	Capacity (seedlings/h), Labour requirement(man-days/ha), Cost of transplanting(Rs./ha), heart rate(bpm)	single row vegetable transplanter	-	-	1	1	4	2	2	0	7	3	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 on single row vegetable transplanter	1	F&FW	1 day	Off	2	2	10	6	3	2	15	10	25
Field day	Field day on single row vegetable transplanter	1	F&FW	1 day	Off	5	1	30	5	7	2	42	8	50

FLD: 8

Crop: Mango, Guava
Thrust Area: Agril. Engineering
Thematic Area: Farm Mechanization
Season: Summer, 2023-24
Farming Situation: Upland /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	Mango, Guava	0.2	Demonstration on fruit harvester	Capacity (fruits/h), Labour requirement (man-days/q), Cost of picking (Rs/q)	fruit harvester	-	-	2	1	3	2	2	0	7	3	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 on Fruit Harvester	1	F&FW	1 day	Off	2	2	10	6	3	2	15	10	25
Field day	Field day on Fruit Harvester	1	F&FW	1 day	Off	5	1	30	5	7	2	42	8	50

FLD: 9

Crop: Onion
Thrust Area: Horticulture
Thematic Area: Varietal substitution
Season: Kharif, 2023
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	Onion var. Line 883	1 ha	Growing of kharif onion Var. Line 883	Plant ht. (cm), Bulb wt(g)	Onion var Line 883											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	POP of Onion cultivation	1	F&FW	1 day	Off									25
Field day	Field day on cultivation of Onion var. Line 883	1	F&FW	1 day	Off									50

FLD: 10

Crop: Maize

Thrust Area: **Demonstration on Management of FAW in Maize**

Thematic Area: Pest management

Season: Kharif, 2023
Farming Situation: **Rainfed Upland**

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology	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

				demonstrated												
1	Maize	1ha	**Seed treatment with (Cyzapyr+ Thiomethoxam) @ 6 ml per Kg of Seed + Instalation of Bird perches upto 45 DAS + Foliar application of Tetranilip lore @ 200 ml /ha at 30 DAS + whorl application and fiels placement of (10 Kg rice bran + 2 kg Jagerry + 1-3 lit of water + 100 gram thiodicard at 45 DAS .**	**No of plant affected/sq.m, Extent of infestation (%)**	**(Cyzapyr+ Thiomethoxam) @ 6 ml per Kg of Seed Tetraniliplore @ 200 ml /ha 100 gram thiodicarb**			3	--	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
F & FW training	FAW management in maize	1	F&FW	1 day	off	---	---	15	10	---	---	---	---	25

FLD: 11

Crop: Rice
Thrust Area: Demonstration on management of Sheath blight in rice
Thematic Area: Disease Management
Season: Kharif, 2023
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								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
1	Rice	1 ha	**Spraying of the combination fungicide Azoxystrobin+ difenconazole @ 1ml/l twice at 15 days interval starting from initiation of the**	**No of plant affected/sq.m, Extent of infection (%)**	**Azoxystrobin + difenconazole @ 1ml/l**			4	--	6	--	--	--	10	0	10

			infection													

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**
F & FW training	Training on management of Sheath blight in rice	1	F&FW	1 day	off	---	---	15	10	---	---	---	---	25

FLD: 12

Crop: Chilli
Thrust Area: **Demonstration On Sucking Pest Complex Management In Chilli**
Thematic Area: **Pest Complex Management In Chilli**
Season: Rabi , 2023-24
Farming Situation: **Irrigated medium land**

Sl. No.	**Crop & variety / Enterprises**	**Proposed Area (ha)/ Unit (No.)**	**Technology package for demonstration**	**Parameter (Data) in relation to technology demonstrated**	**Cost of Cultivation (Rs.)**			**No. of farmers / demonstration**								
								SC		**ST**		**Other**		**Total**		
					Name of Inputs	**Demo**	**Local**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
1	Chilli	1 ha	**Seed treatment with Imidachloprid 600FS @ 5ml /kg seed and Foliar**	**No. of affected plants/sq. mt, % of disease incidence**	**Imidachloprid 600FS @ 5ml /kg.** **Spiromesifen 22.9%**			3	--	7	--	--	--	10	0	10

			spraying of spiromesifen 22.9%SC @ 1 ml/ l of water twice at 30and 45 DAT		**SC @ 1 ml**											

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**
F & FW training	**Training On Sucking Pest Complex Management In Chilli**	1	F&FW	1 day	off	---	---	15	10	---	---	---	---	25

FLD: 13

Crop: **Brinjal**
Thrust Area: **Demonstration on Management of Bacterial Wilt in Brinjal**
Thematic Area: **Demonstration on Management of Bacterial Wilt in Brinjal**
Season: Rabi, 2023-24
Farming Situation: **Irrigated medium land**

Sl. No.	**Crop & variety / Enterprises**	**Proposed Area (ha)/ Unit (No.)**	**Technology package for demonstration**	**Parameter (Data) in relation to technology demonstrated**	**Cost of Cultivation (Rs.)**			**No. of farmers / demonstration**								
								SC		**ST**		**Other**		**Total**		
					Name of Inputs	**Demo**	**Local**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
1	**Brinjal**	1 ha	**Seedling root dip in Chloramphenicol**	**No. affected plants/sq. mt, % of pest**	**Chloramphenicol @ 200**			3		7				10	0	10

			@ 200 ppm + Stable Bleaching powder @ 25kg/ha placing in holes 10 days before planting. Appilcati of Stable Bleaching powder @ 25kg/ha through irrigation water at 30 DAT and 45 DAT	**infestation**	**ppm Stable Bleaching powder @ 25kg/ha**											

Extension and Training activities under FLD:

Activity	**Title of Activity**	**No.**	**Clientele**	**Duration**	**Venue On/Off**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
F & FW training	**Training on Management of Bacterial Wilt in Brinjal**	1	F&FW	1 day	off	---	---	15	10	---	---	---	---	25

FLD: 14

Crop: Short video
Thrust Area: Mass communication
Thematic : Use of ITC in agriculture
Season: Year-round (khari/Rabi) 2023-24
Farming Situation: Irrigated, Medium land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
1	Field crop/ vegetable	30	Preparation of small videos (1.5-2.0 minutes) on different activities of production process of selected commodities and the same will be sent through WhatsApp to the identified farmers	Visually engaging/Informative and timeliness, Understanding the method and process depicted in the video, Retention, retrieval & re-use of the content										40	20	60

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		1	F&FW	1 day	off									25
Field day		2	F/FW,VAW,NGO members,krusimitra, Krusaksathietc.	2 days	off									40

FLD: 15

Crop: Tomato/Chilli/Brinjal
Thrust Area: Marketing channel through e-NAM
Thematic : Marketing channels
Season: Rabi, 2023-24
Farming Situation: Irrigated, Medium land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
1	Tomato/ Chilli/Brinjal	30 nos.	Demonstration of proven marketing mix channels through product, price, place, and promotion(e NAM)	Effective channels, Digital Marketing Channels, Retention, retrieval & re use of the content, % follow-up & utilized, Volume of commodity, Annual turnover & Annual profit										20	10	30

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		1	F&FW	1 day	off									25
Field		2	F/FW,VAW,NGO members,krusimitra,	2 days	off									40

day			Krusaksathietc.											

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

Name of the Crop / Enterprise	Variety / Type	Period From…… to ……..	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (No. /quintal)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	Sahabhagi	July-October,2023	1.5 ha	Foundation seed	45 q	60000	124200	64200
Niger	Utkal Niger 150	August-November,2023	1ha	Foundation seed	2 q	40000	65000	25000
Ragi	Arjun	July-Octber, 2023	2 ha	Foundation seed	12 q	20000	40000	20000
Tomato	Arka Rakshak	Kharif,2021	--	Seedling	1500	1800	3750	1950
Brinjal	Hyb.	Kharif	--	Seedling	1500	1800	3750	1950
Chilli	Hyb.	Kharif	--	Seedling	1500	1800	3750	1950
Papaya	Red lady	Kharif	--	Seedling	1000	10000	21000	11000
Drumstick	PKM 1	Kharif	--	Seedling	1000	8000	15000	7000
Vermicompost	--	Kharif	3 nos. of Pit		10 q	1500	15000	13500
Vermiworm		Kharif	3 nos. of Pit		2.5kg	--	1250	1250
Tomato	Arka Rakshak	Rabi, 2021-22	--	Seedling	1500	1800	3750	1950
Brinjal	Arka Kranti	Rabi, 2021-22	--	Seedling	1500	1800	3750	1950
Chilli	Hyb.	Rabi, 2021-22	--	Seedling	1500	1800	3750	1950
Cabbage	Hyb.	Rabi, 2021-22	--	Seedling	2000	1500	5000	3500
Cauliflower	Hyb.	Rabi, 2021-22	--	Seedling	2000	1500	5000	3500
Knolkhol	Hyb.	Rabi, 2021-22	--	Seedling	2000	1500	5000	3500

Broccoli	Hyb.	Rabi, 2021-22	--	Seedling	2000	1500	5000	3500
Capcicum	Hyb.	Rabi, 2021-22	--	Seedling	500	4500	12000	1000
Marigold	Ceracole	Rabi, 2021-22	--	Seedling	5000	2500	6000	3500
Vermicompost	---	Rabi, 2021-22	3 nos. of pit	--	10 q	1500	15000	13500
Vermi worm		Rabi, 2021	3 nos. of pit	--	2.5kg	--	1250	1250

b) Village Seed Production Programme -

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	12	240	360	600	100	4	1	5	244	361	605
2	KisanMela	1	105	195	300	100	5	2	7	110	197	307
3	KisanGhosthi	-	-	-	-	-	-	-	-	-	-	-
4	Exhibition	1	150	120	270	100	10	2	10	160	122	282
5	Film Show	20	252	378	630	90	5	2	7	257	380	637
6	Method Demonstrations	20	252	378	630	90	5	2	7	257	380	637
7	Farmers Seminar	-	-	-	-	-	-	-	-	-	-	-
8	Workshop	2	50	50	100	90	10	10	20	60	60	120
9	Group meetings	15	140	185	325	95	5	2	7	145	187	332
1	Lectures delivered as resource persons	36	855	1080	1935	75	52	9	61	907	1089	1996
1	Advisory Services	15	125	35	160	100	6	2	8	131	37	168

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	Scientific visit to farmers field	170	810	32	842	80	12	3	15	822	35	857
1	Farmers visit to KVK	3200	2522	728	3250	70	22	7	29	2544	735	3279
1	Diagnostic visits	172	1364	396	1760	60	24	5	29	1388	401	1789
1	Exposure visits	2	12	0	12	90	3	0	4	25	0	25
1	Ex-trainees Sammelan	3	60	15	75	85	5	2	7	65	17	82
1	Soil health Camp	4	150	50	200	80	10	2	12	160	52	212
1	Animal Health Camp	--	-	-	-	-	-	-	-	-	-	-
1	Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
2	Soil test campaigns	10	150	100	250	70	10	10	20	160	110	270
2	Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-	-
2	Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
2	MahilaMandals Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
2	Celebration of important days (specify)	5	135	115	250	75	12	5	17	147	120	267
2	Sankalp Se Siddhi	--	-	-	-	-	-	-	-	-	-	-
2	Swatchta Hi Sewa	36	375	345	720	80	15	7	21	390	352	742
2	Mahila Kisan Diwas	1	0	35	35	88%	0	5	5	0	40	40
2	Any Other (Specify)											
	Total	3703	7445	4184	11629	1435	197	63	258	7657	4247	11904

3. Revolving Fund (in Rs.)

Opening balance of 2022-23 (As on 01.04.2022)	Amount proposed to be invested during 2023-24	Expected Return

Rs. 247341.75	**Rs. 2.00 lakh**	**Rs. 3.0 lakh**

4. Expected fund from other sources and its proposed utilization

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

9. OFT: 1

Season: Kharif, 2023

i. **Title of the OFT: Assessment of medium duration rice varieties under rainfed condition**

ii. **Thematic Area:** Varietal substitution

iii. **Problem diagnosed: Scope in yield improvement in medium duration rice in rainfed condition.**

iv. **Important Cause: Use of old traditional varieties**

v. **Production system:Rainfed medium land**

vi. **Micro farming system: Rice-Fallow**

vii. **Technology for Testing: TO_1- Kalinga Dhan 1203, TO_2- Kalinga Dhan 1205**

Existing Practice: FP- Cultivation of rice var. MTU 1010

viii. **Hypothesis:**

ix. **Objective(s): For getting higher yield and profit**

x. **Treatments: FP- Cultivation of rice var. MTU 1010, TO_1- Kalinga Dhan 1203, TO_2- Kalinga Dhan 1205**

xi. **Critical Inputs: Rice var. Kalinga Dhan 1203 and Kalinga Dhan 1205**

xii. **Unit Size: 4 ha**

xiii. **No of Replications: 07**

xiv. **Unit Cost:**

xv. **Total Cost: 15000**

xvi. **Monitoring Indicator: Plant height(cm), no. of effective tillers/hill, panicle weight(g), Yield(q/ha)**

xvii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): SLREC Proceedings, 2021 (OUAT)**

OFT: 2

i. **Season: Kharif, 2023**

ii. **Title of the OFT: Assessment of herbicide for weed management in transplanted rice**

iii. **Thematic Area:** Weed management

iv. **Problem diagnosed: Heavy weed infestation leads to poor yield in rice**

v. **Important Cause: Improper herbicides application**

vi. **Production system: Rainfed medium land**

vii. **Micro farming system: Rice- Chickpea**

Technology for Testing: TO_1- Post-emergence application of Bispyribac Sodium @ 20 g a.i/ ha + Almix @ 4 g a.i/ ha at 20 DAT, TO_2-Post-emergence application of Bispyribac Sodium @ 20 g a.i/ ha + Ethoxysulfuron @ 15 g a.i/ ha at 20 DAT

viii. **Existing Practice: One hand weeding at 30 DAT**
ix. **Hypothesis:**
x. **Objective(s): Efficient weed control to get better yield**
xi. **Treatments:**

Farmers Practice (FP): **One hand weeding at 30 DAT**

Technology option-I (TO-I): **Post-emergence application of Bispyribac Sodium @ 20 g a.i/ ha + Almix @ 4 g a.i/ ha at 20 DAT**

Technology option-II (TO-II): **Post-emergence application of Bispyribac Sodium @ 20 g a.i/ ha + Ethoxysulfuron @ 15 g a.i/ ha at 20 DAT**

Critical Inputs: Almix, Bispyribac sodium, Ethoxysulfuron

xii. **Unit Size: 1 ha**
xiii. **No of Replications: 07**
xiv. **Unit Cost:**
xv. **Total Cost:**
xvi. **Monitoring Indicator: Weed biomass(g/m^2), WCE (%),Yield(q/ha)**

Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): AICRP on Weed Management, OUAT, SLREC Proceedings 2013

OFT: 3

i. **Season:** Kharif, 2023
ii. **Title of the OFT:** Assessment of Wet Land Power Weeder for weeding in Paddy
iii. **Thematic Area:** Farm Mechanization
iv. **Problem diagnosed:** Labour intensive, Drudgery prone and time consuming operation in manual weeding
v. **Important Cause:** Labour intensive, Drudgery prone and time consuming operation in manual weeding
vi. **Production system:** Rice
vii. **Micro farming system:** Rainfed medium land
viii. **Technology for Testing:** Assessment of Wet Land Power Weeder for weeding in Paddy
ix. **Existing Practice:** Manual weeding
x. **Objective(s):** wedding of field by Wet Land Power Weeder and other existing weeding methods to access cost of weeding
xi. **Treatments:** Farmers Practice (FP): Manual weeding

i. Technology option-I (TO-I): Weeding with mandwa weeder.
ii. Technology option-II (TO-II): Weeding with Wet Land Power Weeder

xii. **Critical Inputs:** Wet Land Power Weeder
xiii. **Unit Size:** 0.4 ha
xiv. **No of Replications:** 7
xv. **Unit Cost:**1200.00
xvi. **Total Cost:** 8400.00
xvii. **Monitoring Indicator:** Field capacity (ha/h), Weeding Index(%), Labour utilization (man days/ha), Plant damage(%), Fuel consumption (l/h)
xviii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** AICRP on FIM, CAET, OUAT , 2013

OFT-4

i. **Season:** Rabi, 2023-24
ii. **Title of the OFT:** Assessment of power operated OUAT maize dehusker cum sheller
iii. **Thematic Area:** Farm Mechanization
iv. **Problem diagnosed:** Labour intensive, Drudgery prone and time consuming operation in manual shelling
v. **Important Cause:** Labour intensive, Drudgery prone and time consuming operation in manual shelling
vi. **Production system:** Maize
vii. **Micro farming system:** Irrigated medium land
viii. **Technology for Testing:** Assessment of power operated OUAT maize dehusker cum sheller
ix. **Existing Practice:** Dehusk and shelling of maize cobs by hand
x. **Objective(s):** To assess the cost and time of shelling through power operated OUAT dehusker cum sheller
xi. **Treatments:**
    i. Farmers Practice (FP): Shelling of maize cobs by hand
    ii. Technology option-I (TO-I): CIWA hand operated maize dehusker cum sheller .
    iii. Technology option-II (TO-II): Power operated OUAT maize dehusker cum sheller.
xii. **Critical Inputs:** Power operated OUAT maize dehusker cum sheller
xiii. **Unit Size:** 0.4 ha
xiv. **No of Replications:** 7
xv. **Unit Cost:**2000.00
xvi. **Total Cost:** 14000.00
xvii. **Monitoring Indicator:** Capacity(kg/h), Shelling efficiency(%), Breakage(%), Cost of shelling(Rs./kg), Labour requirement (man-days/ha)
xviii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): Source :** AICRP ON FIM CAET, OUAT, 2018-19

OFT-5

xix. **Season:** Rabi, 2023-24
xx. **Title of the OFT:** Assessment of Tomato Var. Arka Samrat and Arka Abhed
xxi. **Thematic Area:** Varietal substitution
xxii. **Problem diagnosed:** Low yield of tomato due to incidence of predominant disease like Bacterial wilt, Early blight and Tomato leaf curl virus.
xxiii. **Important Cause:** Low yield of tomato due to incidence of predominant disease like Bacterial wilt, Early blight and Tomato leaf curl virus.
xxiv. **Production system:** Tomato-fallow-rice
xxv. **Micro farming system:** Irrigated medium land
xxvi. **Technology for Testing:** Assessment of Tomato Var. Arka Samrat and Arka Abhed
xxvii. **Existing Practice:** Cultivation of tomato var. Saaho
xxviii. **Objective(s):** To enhance the yield of tomato
xxix. **Treatments:**
    i. Farmers Practice (FP): Cultivation of tomato var. Saaho.

ii. Technology option-I (TO-I): Cultivation of Arka Samrat (F1hyb)
iii. Technology option-II (TO-II): Cultivation of Var. Arka Abhed (F1hyb)

xxx. **Critical Inputs:** Tomato var. Arka Samrat and Arka Abhed

xxxi. **Unit Size: 0.4 ha**

xxxii. **No of Replications:** 7

xxxiii. **Unit Cost:**

xxxiv. **Total Cost:**

xxxv. **Monitoring Indicator:** Plant height(cm), no. of fruit/ plant (nos.), yield(q/ha)

xxxvi. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): Source : CAR-IIHR-2018**

OFT-6

xxxvii. **Season:** Rabi, 2023-24

xxxviii. **Title of the OFT:** Assessment of different growing media for raising vegetable seedlings

xxxix. **Thematic Area:** Nursery management

xl. **Problem diagnosed:** Heavy mortality, weak seedling and high cost of hybrid seeds

xli. **Important Cause:** Heavy mortality, weak seedling and high cost of hybrid seeds

xlii. **Production system:** Homestead

xliii. **Micro farming system:** Irrigated medium land

xliv. **Technology for Testing:** Assessment of different growing media for raising vegetable seedlings

xlv. **Existing Practice:** Raising seedling in protrays using soil+ FYM+sand (1:1:1).

xlvi. **Objective(s):** To achieve healthy seedlings

xlvii. **Treatments:**

i. Farmers Practice (FP): Raising seedling in protrays using soil+ FYM+sand (1:1:1).

ii. Technology option-I (TO-I): Use of Arka Fermented Coco-Peat using microbial consortium developed By IIHR For Vegetable Seedling Production in protray.

iii. Technology option-II (TO-II): Mix sterilized cocopeat @ 300 kg with 5 kg neem cake along with Azospirillum and phosphobacteria each @ 1 kg. Sow the treated seed in protrays. Drench with 19:19:19 @ 0.5% (5g/l) at 18 days after sowing

xlviii. **Critical Inputs:** Cocopeat, Neem cake, Azospirillum, PSB, NPK 19:19:19

xlix. **Unit Size: 0.4 ha**

l. **No of Replications:** 7

li. **Unit Cost:**

lii. **Total Cost:**

liii. **Monitoring Indicator:** Germination %, mortality %, Seedlings production

Source : TNAU, 2019

lv. OFT-7

lvi. **Season: Kharif, 2023**

lvii. **Title of the OFT:** Assessment of Novel Insecticides for Management of Rice Stem Borer.

lviii. **Thematic Area:** Pest management
lix. **Problem diagnosed:** Severe infestation of rice stem borer during nursery and transplanting stage.

lx. **Important Cause: Indiscriminate dose of nitrogenous fertilisers**
lxi. **Production system:Rice-Fallow**
lxii. **Micro farming system:**
lxiii. **Technology for Testing:**
lxiv. **Existing Practice:**
lxv. **Hypothesis:**
lxvi. **Objective(s):**
lxvii. **Treatments:**

Farmers Practice (FP): **Application of Cartap Hydrochloride @ 10 kg/Acre at 15 DAT**

Technology option-I (TO-I): **Nursery treatment with Fipronil 0.3 G @ 20 g/m2 before 7 days of uprooting the seedling + application of Chlorantraniliprole 0.4G @ 10 kg/ha at 30 DAT + Spraying of Cartap hydrochloride 50 SP @ 750 g/ha at 55 DAT**

Technology option-II (TO-II): **Spraying of Fipronil 5 SC @ 1250ml/ha at 25 DAT + spraying with Rynaxypyr 18.5 SC @ 150 ml/ha at 50 DAT**

Critical Inputs: Fipronil 0.3 G , Chlorantraniliprole 0.4G , Cartap hydrochloride 50 SP.

lxviii. **Unit Size: 1 ha**
lxix. **No of Replications: 07**
lxx. **Unit Cost: 1 ha**
lxxi. **Total Cost:**
lxxii. **Monitoring Indicator:** % of dead hearts, % of white ear heads.

lxxiii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**

AICRP on Rice, Chiplima, 2018

AICRP on Rice, Chiplima, 2021

lxxiv. OFT-8

lxxv. **Season: Kharif , 2023**
lxxvi. **Title of the OFT:** Assessment on Management of Banded Leaf & Sheath Blight (BLSB) in Maize.

lxxvii. **Thematic Area:** Disease management
lxxviii. **Problem diagnosed:** Medium to Severe Infection due to Banded Leaf & Sheath Blight (BLSB) in Maize

lxxix. **Important Cause: No seed treatment**
lxxx. **Production system:Maize-Maize**
lxxxi. **Micro farming system:**
lxxxii. **Technology for Testing:**
lxxxiii. **Existing Practice:**
lxxxiv. **Hypothesis:**
lxxxv. **Objective(s):**

lxxxvi. **Treatments:**

Farmers Practice (FP): **Farmers are applying Carbendazim50%WP @1.5 gm/lit of water**

Technology option-I (TO-I): **Seed treatment with Carbendazim @ 0.2 % followed by two foliar sprays of Tryfloxystrobin + Tebuconazole @ 0.05% starting from initiation of the disease.**

Technology option-II (TO-II): **Application of Validamycin @ 0.1% followed by Trifloxystrobin 25% +Tebuconazole 50% @0.05% at 10 Days interval starting from initiation of the disease.**

lxxxvii. **Critical Inputs: Tryfloxystrobin + Tebuconazole , Validamycin, Carbendazim**
lxxxviii. **Unit Size: 1 ha**
lxxxix. **No of Replications: 07**
xc. **Unit Cost:**
xci. **Total Cost:**
xcii. **Monitoring Indicator: % disease index.**

xciii. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): SLREC Proc 2018**

SLREC Proc 2015

xciv. OFT-9

xcv. **Season:** Rabi 20223-24
xcvi. **Title of the OFT:** Assessment of the performance of FPOs with varied levels of task and commodity to enhance profitability

xcvii. **Thematic Area:** Income generation
xcviii. **Problem diagnosed:** Unorganized farmers fetching low prices due to distressed sale of farm produce

xcix. **Important Cause:** Unorganized farmers fetching low prices due to distressed sale of farm produce
c. **Production system:Maize-** Vegetable-vegetable
ci. **Micro farming system: Maize-** Vegetable-vegetable(Irrigated), Rice pulses (Rainfed)
cii. **Technology for Testing:** Performance of FPOs with varied levels of task and commodity to enhance income
ciii. **Existing Practice:** Farmers marketing their produce through intermediaries
civ. **Hypothesis:** FPO dealing with multi-commodity with multi-task is more beneficial for farming communities'
cv. **Objective(s):** To increase the income level of farmer
cvi. **Treatments:**

Farmers Practice (FP): Farmers marketing their produce through intermediaries
Technology option-I (TO-I) FPO deals with a single commodity with a single task i.e., Vegetable-Marketing
Technology option-II (TO-II) FPO dealing with multi-commodity with single task i.e., Pulses, Vegetable, Enterprises-Marketing
Technology option-III (TO-III) FPO dealing with multi-commodity with multi-task i.e., Pulses, Crops Vegetable, Enterprises sorting, grading, packing, value addition, branding, levelling and market

cvii. **Critical Inputs:** Interview schedule
cviii. **Unit Size:** 0.4ha or less (each)
cix. **No of Replications: 30**
cx. **Unit Cost:**
cxi. **Total Cost:**
cxii. **Monitoring Indicator:** Farmer's interest to become a member, Easy to produce, Easy to sell, Business planning and market linkage with various national and multinational companies, Management quality/easy in management, Total share capital deposited in the bank, No of FIGs, No of members, Meeting status, Type of commodity, Volume of commodity, Annual turnover, Annual profit

Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): FPO NABARD, 2019-20

i. OFT-10

ii. **Season:** Kharif, 2023

iii. **Title of the OFT:** Assessment of the effectiveness of different extension methods to access information on rice production

iv. **Thematic Area:** Usefulness of ICT

v. **Problem diagnosed:** Poor associability with accurate and timely information on technical knowledge /advisory in rice production

vi. **Important Cause:** Non-availability of rice production information during the need of farmers

vii. **Production system:** Rice - pulses (Rainfed)

viii. **Micro farming system:** Rice - chickpea (Rainfed)

ix. **Technology for Testing:** Usefulness of rice-based ICT materials and riceXpert

x. **Existing Practice:** Framer gets information from friends, relative, input dealers, extension functionaries, KMA and mass media

xi. **Hypothesis:** Current flow of information is not adequate as per farmer's expectation.

xii. **Objective(s):** To increase the knowledge level of farmers on rice production

xiii. **Treatments:**

Farmers Practice (FP): Farmers getting information from the peer group, input dealers, extension functionaries, KMA and mass media Technology option-I (TO-I) FP + Short Video Lecture+ Focus Group discussion / Clarification session Technology option-II (TO-II) FP + Using of" riceXpert" App Technology option-III (TO-III) FP + getting support from "Resilient practices" from the resilient project

xiv. **Critical Inputs:** Interview schedule

xv. **Unit Size:** 0.4ha or less (each)

xvi. **No of Replications: 30**

xvii. **Unit Cost:**

xviii. **Total Cost:**

xix. **Monitoring Indicator:** Timely Availability/delivery of technology, suitability of technology, easy of handling the extension method, retention and retrieval of information (All parameters to be taken on a three-point scale and measured through a weighted matrix)Change in knowledge, user-friendliness of the extension method continuation of the use of such method

Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): NRRI, Cuttack.2017

i. OFT-11

ii. **Season: Kharif , 2023**

iii. **Title of the OFT:** Assessment of adoption rate and sustainability of different maize sowing methods
Thematic Area: Planting methods

iv. **Problem diagnosed:** Time consuming operation, drudgery prone and labour intensive in manual sowing method

v. **Important Cause:** More expenditure minimize profit and net return

vi. **Production system: Maize-Maize/vegetables**

vii. **Micro farming system: Maize-Maize/Brinjal/Tomato/Chilli**

viii. **Technology for Testing: Different sowing method**

ix. **Existing Practice:** Sowing behind the plough

x. **Hypothesis:** Adoption of line sowing method **in Maize**

xi. **Objective(s):** To popularize line sowing method among the farmers

xii. **Treatments:**

Farmers Practice (FP): Sowing behind the plough

Technology option-I (TO-I): Adoption of cup feed seed drill for sowing of seeds

Technology option-II (TO-II): Adoption of inclined plate seed drill for sowing of seeds

xiii. **Critical Inputs:** cup feed seed drill/ inclined plate seed drill
xiv. **Unit Size:** 0.4ha or less (each)
xv. **No of Replications: 30**
xvi. **Unit Cost:**
xvii. **Total Cost:**
xviii. **Monitoring Indicator:** Rate of adoption, sustainability of the technology, Selling of machines, Constraints of the technology (cost, easy to perform, ergonomics, accessibility and availability of machines)

Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):

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

Sl. No.	Name of the project	Fund expected (Rs.)
1	**Exploring vermitechnology for soil health management and vegetable production in the Maize based cropping system of District Nabarangpur of Odisha.**	**6,00,000.00**

11. No. of success stories proposed to be developed with their tentative titles- o6 no.
On Back yard Poultry, Mushroom and Millet cultivation ,

12. Scientific Advisory Committee

Date of SAC meeting held during 2022-23	Proposed date during 2023-24
03.12.2022	15.12.2023

13. Soil and water testing

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distribution
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	500	-	-	-	-	-	-	-	-	-	25	500
Water Samples	--	-	-	-	-	-	-	-	--	-	--	--
Other (Please specify)	--	--	-	-	-	-	-	-	-	-	-	-
Total	500										25	500

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to 31.03.2023	Expected fund requirement (Rs.) during 2023-24
Pay and allow.	**83.0 lakh**	**95.00 lakh**
TA	**1.10 lakh**	**2.0 lakh**
Contigency and TSP	**18.00 lakh**	**20.00 lakh**
Non Recurring	**1.50 lakh**	**10.00lakh**
HRD	**0.30 lakh**	**0.30lakh**
Swacchata Action plan	**0.1725**	**0.15 lakh**
Maintainance of staff Quarter	**0.00**	**10.00lakh**
CFLD	**6.30 lakh**	**6.3 lakh**
Total	**110.3725 lakh**	**143.7725 lakh**

15. Action Plan under TSP, 2023-24

Sl. No.	Particulars	Quantity(no.)	No. of beneficiary	Village to be covered
1	**Vermibed**	**30**	**30**	**Sanakumari, Badakumari, Chikalpadar, Semala**
2	**Improved sickle**	**100**	**100**	**Sanakumari, Badakumari, Chikalpadar, Semala**
3	**Garden Rake**	**30**	**30**	**Sanakumari, Badakumari, Chikalpadar, Semala**
4	**Trench Hoe**	**40**	**40**	**Sanakumari, Badakumari, Chikalpadar, Semala**
5	**Manual sprayer (16 lit.)**	**20**	**20**	**Sanakumari, Badakumari, Chikalpadar, Semala**
6	**Cycle weeder**	**12**	**12**	**Sanakumari, Badakumari, Chikalpadar,**

				Semala
7	**Storage Bin (110 kg capacity)**	**30**	**30**	**Sanakumari, Badakumari, Chikalpadar, Semala**
8	**Pheromone Trap with lures**	**200**	**200**	**Sanakumari, Badakumari, Chikalpadar, Semala**
9	**Sticky Traps (Yellow & Blue)**	**200**	**200**	**Sanakumari, Badakumari, Chikalpadar, Semala**
10	**Solar Traps/Light Traps**	**5**	**5**	**Sanakumari, Badakumari, Chikalpadar, Semala**
11	**Bio-pesticides (T.viridae or P.fluorescence)**	**20 kg**	**50**	**Sanakumari, Badakumari, Chikalpadar, Semala**
12	**Oyster mushroom spawn (P. sajor caju)**	**2000**	**100**	**Sanakumari, Badakumari, Chikalpadar, Semala**
13	**Kadaknath poultry chicks**	**200**	**20**	**Sanakumari, Badakumari, Chikalpadar, Semala**
14	**Vanaraja poultry chicks**	**200**	**20**	**Sanakumari, Badakumari, Chikalpadar, Semala**
15	**Honey bee box with colonies and equipments**	**15**	**15**	**Sanakumari, Badakumari, Chikalpadar, Semala**

16	**Rose cane**	**100**	**100**	**Sanakumari, Badakumari, Chikalpadar, Semala**
17	**Fruit Plucker**	**20**	**20**	**Sanakumari, Badakumari, Chikalpadar, Semala**
18	**Vegetable transplanter**	**16**	**16**	**Sanakumari, Badakumari, Chikalpadar, Semala**
19	**Hand Hoe**	**40**	**40**	**Sanakumari, Badakumari, Chikalpadar, Semala**
20	**Khurpi**	**40**	**40**	**Sanakumari, Badakumari, Chikalpadar, Semala**

Sd/-
Senior Scientist & Head
KVK, Nabarangpur