TSP ACTION PLAN

YEAR

2024-25

KRISHI VIGYAN KENDRA MALKANGIRI

ODISHA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

BHUBANESWAR, ODISHA

ACTION PLAN FOR TSP 2024-25 of KVK, Malkangiri

1. Name of the KVK: Malkangiri, Odisha

Address	Telephone	E mail
Krishi Vigyan Kendra, Malkangiri At: Mundaguda, Dist: Malkangiri, Odisha-764045	9437633251	kvkmalkangiri.ouat@gmail.com malkangirikvk@yahoo.co.in

2.Name of host organization : OUAT, Odisha

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture & Technology, Bhubaneswar- 751003	91-674-2397700	91-674-2397780	deanextension.ouat@gmail.com deanextensionouat@yahoo.com deanextension_ouat@rediffmail.com

District Information

Total geographical area	579100 ha
Total cultivated area	142734 ha
High land	88279 ha
Medium land	30430 ha
Low land	24025 ha
Paddy area	73123 ha
Upland	18816 ha
Med. Land	30282 ha
Low land	24025 ha
Total Population :	613192
ST	57.8%
SC	22.5%
Others	19.7%
Literacy(%)	49.49
Total Agriculture Family	90504
Soil type	Red laterite
Fertiliser consumption	17.78: 8.92: 4.82 kg NPK/ha
Major crops	Rice, Maize, Groundnut, Sesame
Cropping intensity	160%

Av. Annual rainfall	1667.6 mm

AREA UNDER MAJOR CROP

Sl No	Crop	Area(ha)
1	Rice	75,200
2	Sesame	27842
3	Groundnut	19230
4	Maize	9590
5	Ragi	8515
6	Greengram	6092
7	Black gram	4540
8	Vegetable	16936
9	Fruits	8403
10	Spices	3066

CONTRIBUTION OF MAJOR CROPS TO DISTRICT ECONOMY

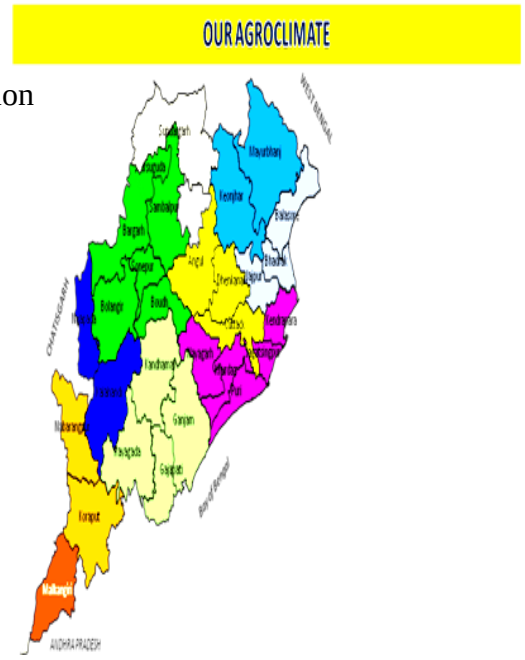
Sl No	Crop	Income (Crore)
1	Rice	287.46
2	Sesamum	52.65
3	Groundnut	180.76
4	Maize	122.09
5	Ragi	9.6
6	Greengram	13.85
7	Black gram	8.09
8	Fruits	17.38
9	Vegetables	44.86
10	Spices	6.24

PROBLEMS OF DISTRICT

- Low yield due to cultivation of local varieties with poor mgt.practices, Monocropping
- Low yield due to imbalance nutrient management
- Lack of integrated disease, pest & weed management in different crops
- Low production from fishery and livestock enterprises Drudgery to Farm Women
- Unemployed rural youth

- Post harvest loss of fruits and vegetables
- Low income due to rice mono cropping and drought condition
- Low yield due to reduction of soil fertility

THRUST AREAS IDENTIFIED BY KVK



- Increase in double crop areas, crop diversification , millet production
- Integrated nutrient management in cereals, pulses and oilseeds
- Integrated pest , disease & weed management in different crops
- Soil health management
- Replacement of local variety with high yielding & hybrid vars.
- Backyard rearing of improved, poultry and duck breeds
- Mushroom Cultivation
- Promotion of Pisciculture
- Farm mechanization
- Crop diversification
- Value addition
- Diversification of Agriculture
- Promotion of organic farming
- Development of integrated farming system

LAND UTILISATION PATTERN

1.	Total land with KVK	20.8 ha
2.	Administrative building	
	Farmers' hostel, Staff quarters	2.0 ha
	Farm pond	0.2 ha
	Land under cultivation	1.6 ha
	Sloppy lands with bushes (Cultivable)	1.0 ha
	Rocky undulating uplands with bushes	16.0 ha

Unique feature of tribal based Economy

- Tribals constitute 58 % of the total population
- Main tribes in the district are Banda, Kandha, Koya, Gadaba, Matia, Katia,Bhumia, Paraja,
- Major occupation of the tribals are farmingcommunity (monocropping of rice), animal husbandry (local poultry, goatery and piggery),NTFP (fire wood, mahu, seasonalmushroom – nada chattu) collection and marketing.
- Low cosmopolite behavior.

The major issues of the tribal farmers are

- Nutritional insecurity.
- Low income due tomono cropping.
- Poverty.
- Traditional farming system.
- Low income from local breeds in animal husbandry.
- Low risk bearing ability.
- Lack of income generation activities.
- Lack of post harvest management.

Action Plan 2024-25

3.Training programme to be organized (Dec 2024)

a. Farmers and farmwomen

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
I. Horticulture														
Off-season vegetables (HOV)	Cultivation of ARC Kharif Potato.	1	1	On	08th August2024	5	0	12	5	3	0	20	5	25
Yield increment (HOV)	Package & practices for Okra cultivation.	1	1	On	14th August 2024	0	0	15	10	0	0	15	10	25
Yield increment (HOV)	Integrated Horticulture base farming System.	1	1	On	15th September 2023	5	0	12	5	3	0	20	5	25
Water Management (HOV)	Organic vegetable farming and its certification & marketing management.	1	1	On	18th September 2023	5	0	12	5	3	0	20	5	25
Protective cultivation (HOV)	Precision Horticulture.	1	1	On	22nd November 2024	5	0	12	5	3	0	20	5	25
Yield increment (HOV)	Cultivation of winter & underutilized vegetables.	1	1	Off	02nd October 2024	5	0	12	5	3	0	20	5	25
Planting Mechanism in Fruits (HOF)	Planting mechanism in fruit crops.	1	1	Off	25th July 2023	0	0	12	10	3	0	15	10	25
Orchards (HOF)	Establishment of new fruit orchard.	1	1	On	03rd September	5	0	12	5	3	0	20	5	25

					2023									
Production and Management technology (HOS)	Cultivation & processing of Spices (Chilli, turmeric, Coriander, Fenugreek, Garlic)	1	1	Off	05th August 2023	5	0	12	5	3	0	20	5	25
Production and Management technology (HOS)	Production Management, storage & marketing of Onion	1	1	On	24th September 2024	5	0	10	05	05	0	20	05	25
Flower Enterprise Development (HOO)	Cultivation of high market demand flowers & its marketing.	1	1	Off	26thOctober 2024	2	5	5	8	3	2	10	15	25
Medicinal Home herbal Garden (HOM)	Establishment of home herbal garden & use of medicinal plants.	1	1	Off	14th February 2025	2	3	6	10	2	2	10	15	25
Total		12	12	On =06 Off=06		44	8	132	78	34	4	210	90	300
II Plant Protection														
IDM	Management of Panama wilt in Banana.	01	01	On	29th July 2024	5	0	12	5	3	0	20	5	25
ICM	Stem borer management in Rice.	01	01	Off	13th August 2024	0	0	12	10	3	0	15	10	25
IPM	Management of insect pest in cucumber.	01	01	Off	22nd October 2024	5	0	12	5	3	0	20	5	25
IPM	IPM strategy for management of MYMV in Green gram.	01	01	Off	12th November 2024	0	0	12	10	3	0	15	10	25
IDM	Management of Purple blotch in Onion.	01	01	Off	18th December 2024	5	0	12	5	3	0	20	5	25
Total		**05**	**05**			**15**	**0**	**60**	**35**	**15**	**0**	**90**	**35**	**125**
III Home Science														
Income generation activity	Oyster Mushroom cultivation	1	1	On	20thNov 2024	0	5	0	15	0	05	0	25	25
Total		**01**	**01**			**0**	**5**	**0**	**15**	**0**	**05**	**0**	**25**	**25**
IV. Fishery														
Freshwater prawn culture	Culture of Machrobachiumrosenbergii (GI and non GI)	01	01	On	13th August 2024	5	0	12	5	3	0	20	5	25
Composite fish culture	Composite Fish Farming	01	01	Off	23rd August 2024	0	0	15	10	0	0	15	10	25

Integrated farming	Integrated Fish Farming to support Livelihood	01	01	Off	05th September 2024	5	0	12	5	3	0	20	5	25
Fry and fingerling rearing	Fish Seed Rearing Technology	01	01	Off	25th September 2024	5	0	12	5	3	0	20	5	25
Pen culture	Pen cultureSystem	01	01	Off	04th October 2024	5	0	12	5	3	0	20	5	25
Cage culture	Cage Culture System	01	01	Off	09th October 2024	5	0	12	5	3	0	20	5	25
Air breathing fishes	Culture of Desi Magur	01	01	Off	05th November 2024	0	0	12	10	3	0	15	10	25
RAS	Aquaponic Method	01	01	On	12th November 2024	5	0	12	5	3	0	20	5	25
Fish harvest and processing technology	Fish Pickle and Fish Ball Preparation	01	01	Off	03rd December 2024	5	0	12	5	3	0	20	5	25
IMTA	Integrated Multitrophic Aquaculture	01	01	Off	13th December 2024	5	0	10	05	05	0	20	05	25
Polyculture	Polyculture of Fishes	01	01	Off	06th January 2025	2	5	5	8	3	2	10	15	25
Monoculture	Monoculture of GIFT	01	01	On	13th January 2025	2	3	6	10	2	2	10	15	25
Fisheries Legislation	Freshwater Fisheries Legislation	01	01	On	20th January 2025	5	0	12	5	3	0	20	5	25
Pearl farming	Pearl Farming Technology	01	01	On	09th February 2025	0	0	12	10	3	0	15	10	25
Sustainable Aquaculture	Role of Sustainable Aquaculture	01	01	Off	25th February 2025	5	0	12	5	3	0	20	5	25
Total		**15**	**15**			**54**	**8**	**168**	**98**	**43**	**4**	**265**	**110**	**375**

b. Rural youths

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
I. Horticulture														
Horticulture Enterprise (HOV)	Advance production mechanism of vegetables and its Grading, standardization, Packaging & marketing techniques.	1	2	On	14-15th December 2024	5	0	8	5	0	2	13	7	20
Horticulture nursery (HOF)	Grafting, budding & Asexual propagation technology in Horticultural crops.	1	2	On	19-20th February 2025	5	0	10	02	2	1	17	03	20
TOTAL		**02**	**04 Days**			10	0	18	07	02	03	30	10	

II. Plant Protection														
ICM	Organic control of vegetable insect-pest & diseases.	01	02	On	05th January 2025	5	0	8	5	0	2	13	7	20
Total		**01**	**02 Days**			**5**	**0**	**8**	**5**	**0**	**2**	**13**	**7**	**20**
III. Fishery														
Fry and fingerling rearing	Different culture practices for rearing Fish Fry and Fish Fingerling	1	2 Days	On	28th August 2024	5	0	8	5	0	2	13	7	20
Aquaponic	Aquaponic Technology	1	2 Days	On	10th September 2024	5	0	10	02	2	1	17	03	20
IMTA	Integrated Multitrophic Aquaculture	1	2 Days	On	28th September 2024	5	0	10	02	2	1	17	03	20
Fish harvest and processing technology	Fish Pickle and Fish Finger Preparation	1	2 Days	On	22nd October 2024	0	5	0	15	0	0	0	20	20
Total		**04**	**08 Days**			**15**	**05**	**28**	**24**	**4**	**4**	**47**	**33**	**80**

c. Extension functionaries

Thrust area/ Thematic area	**Title of Training**	**No.**	**Duration**	**Venue On/ Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
Water Management (HOF)	Horticulture base Farming System Model.	1	2	On	26-27th December 2024	3	2	6	4	2	3	11	9	20
Management & Management Technology (HOV)	IPM, IDM in vegetables.	1	2	On	15-16th February 2025	3	2	6	4	2	3	11	9	20
Fish harvest and processing technology	Fish Pickle, Fish Ball and Fish Cutlet Preparation	1	2	On	14-15th September 2024	5	5	5	3	0	2	10	10	20
Freshwater prawn culture	Culture of GI/ Non GI Scampi	1	2	On	28-29th October 2024	5	5	5	3	0	2	10	10	20
Ornamental fisheries	Ornamental Fisheries Enterprises	1	2	On	02-03rd December 2024	5	3	5	2	2	3	12	08	20
IMTA	Integrated Multi Trophic Aquaculture	1	2	On	18-19th December 2024	5	3	5	2	2	3	12	08	20
Total		**06**	**12**			**26**	**20**	**32**	**18**	**8**	**16**	**66**	**54**	**120**

d. Skill Development & Vocational Training for RY Year 2024-25

Sl. No.	Title of the Program	Nos.	Days	Date		No. of Participants		
				From	To	Male	Female	Total
I.	**Horticulture**							
1	Training on Hitech Horticulture Nursery.	1	5 Days	22.07.2024	26.07.2024	15	15	30
2	Training on Off season vegetable farming.	1	5 Days	05.08.2024	09.08.2024	15	15	30
3	Training on Grading, Packaging & Standardization of fruits & vegetables.	1	5 Days	27.08.2024	31.08.2024	15	15	30
4	Training on Protected cultivation of Fruits & vegetable.	1	5 Days	09.09.2024	13.09.2024	15	15	30
5	Training on Micro irrigation in Horticultural crops.	1	5 Days	17.09.2024	21.09.2024	15	15	30
6	Training on Cultivation of major flower and bouquet, cut flower production, flower pots & Marketing.	1	5 Days	23.09.2024	27.09.2024	15	15	30
7	Training on Horticulture base farming system.	1	5 Days	04.11.2024	8.11.2024	15	15	30
8	Training on IPM & IDM in fruits & vegetables.	1	5 Days	09.12.2024	13.12.2024	15	15	30
9	Training on Organic production of fruits & vegetables.	1	5 Days	16.12.2024	20.12.2024	15	15	30
10	Training on Fruit & Vegetable marketing, SCM & Role of FPO's.	1	5 Days	06.01.2025	10.01.2025	15	15	30
	Total	10				**150**	**150**	**300**
II.	**Fishery**							
1	Culture of Live Fish Food Organism	1	5 Day	13.08.2024	18.08.2024	**15**	**15**	30
2	Raceway Culture System	1	5 Day	17.09.2024	21.09.2024	**15**	**15**	30
3	Biofloc Culture System	1	5 Day	17.10.2024	21.10.2024	**15**	**15**	30
4	Aquaponic Culture System	1	5 Day	25.11.2024	29.11.2024	**15**	**15**	30
5	GIFT Farming including it Guidelines and Farm Registration procedures	1	5 Day	17.12.2024	21.12.2024	**15**	**15**	30
6	Feed Formulation & Feeding Practices used in Aquaculture	1	5 Day	11.01.2024	15.01.2025	**15**	**15**	30
7	Preparation of Value Added Fish Product	1	1 Day	15.02.2025	19.02.2025	**15**	**15**	30
8	Integrated Fish Farming	1	1 Day	01.03.2025	05.03.2025	**15**	**15**	30
9	Freshwater Pearl Farming	1	1 Day	15.03.2025	19.03.2025	**15**	**15**	30
		9				**135**	**135**	**270**

Frontline demonstration to be conducted* FLD-01 Code-24FHO08 (K/R)

Crop :Okra
Thrust Area : Varietal Substitution
Thematic Area: ICM
Season :Kharif - 2024
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	Okra variety Kashi Chaman	2.0 ha	Medium tall plants, dark green fruits 11-14 cm long, First flowering on 41 days after sowing, resistant to YVMV and OLECV, yield 150 - 160 q/ha in 45 to 100 days	Fruit length(cm), Fruit of pods/plant, Yield(q/ha), B:C ratio	Seed									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	Package & practices of Okra	1	PF/FW	1	On	0	0	15	10	0	0	15	10	25
Field day	Performance of Okra Variety Kashi Chaman	1	PF/FW	1	OFF	5	10	10	05	10	10	25	25	50

Frontline demonstration to be conducted- FLD-02Code-23FAG07 (K)

Crop :**Paddy**
Thrust Area :IPM
Thematic Area: IPM
Season : Kharif, 2024
Farming Situation: Rainfed Up land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Rice	2.0 ha	Nursery treatment with Chlorantraniliprole 0.4G @ 400 g/40m^2, Fixing of Pheromone traps 25 nos./ha at 15 to 20 DAT, Alternate spraying of Fipronil 5SC @ 1250 ml/ha and Cartap hydrochloride 50 SP @ 750 g/ha starting from 25 DAT	Pest incidences (%), Yield,ICBR and farmers' feedback	Seed									10	0	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Stem borer management in Rice.	1	PF/FW	1	OFF	0	0	12	10	3	0	15	10	25
Field day	Performance of IPM in paddy	1	PF/FW	1	OFF	5	10	10	05	10	10	25	25	50

Frontline demonstration to be conducted-FLD 03-Code-24FPP12(R)

Crop :Greengram
Thrust Area : Varietal replacement
Thematic Area: ICM
Season : Khari-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								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
1	Green gram	2.0	Seed treatment with Imidacloprid 600 FS @ 5 ml/ kg, placement of yellow sticky trap @ 50/ha, spraying of Neem oil 0.15% @ 2 ml/L at 30 DAS and need based spraying of Diafenthiuron 50 % WP @ 1 gm /l at 45 DAS	PDI (%), Cost of intervention, Yield,ICBR and farmers' feedback												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	IPM strategy for management of MYMV in Green gram.	1	PF/FW	1	OFF	0	0	12	10	3	0	15	10	25
Field day	Yield at crop harvest	1	PF/FW	1	OFF									50

Frontline demonstration to be conducted- FLD-04Code-23FFS18(Y)

Crop : **Fish**
Thrust Area :
Thematic Area: Feed Management
Season : Round the year
Farming Situation: Irrigational ponds

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	Fish	6	Fish-Horticulture-Livestock integratedfarming Stocking of yearlings of IMC @ 5000 nos/ha,planting of papaya, banana, seasonalvegetables, drumstick etc. on pond dykes +Duck@250 nos/ha	ABW, Size, Survivability, Yield, Income												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	Strengthening of pond based IFS	01	PF/ FW	1 day	off									25

Frontline demonstration to be conducted- FLD-05(Code-24FFS04 (K)

Crop : **Fish**
Thrust Area :
Thematic Area: Composite Fish Culture
Season : Round the year
Farming Situation: Irrigational ponds

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	Fish	0.66	Incorporation of grass carp fingerlings of more than 100g size @ 500 nos. per ac.	% Weed control, Survivability, Size, ABW, Yield												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
-	-	-	-	-	-									-

Frontline demonstration to be conducted- FLD-06(Code-24FFS05 (K)

Crop : **Fish**
Thrust Area :
Thematic Area: Pond Management
Season : Round the year
Farming Situation: Irrigational ponds

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	Fish	1 ha.	Intensive culture of *Pangassius* spp. with minimum 30-40 nos stocking densities/m^2	SGR, ABW (Harvest), BC ratio	***Pangasius sutchi***	20000/-	12000/-									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 for extension functionaries	Culture of *Pangasius sutchi*	01	PF /FW	1 day	OFF									25

Frontline demonstration to be conducted- FLD-07(Code-24FFS06 (K)

Crop : **Fish**
Thrust Area :
Thematic Area: Integrated Fish Pond Management
Season : Round the year
Farming Situation: NA

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	Fish	1 ha.	Stocking of carp spawn @1.5 million /ha in the rice field	Survivability, Yield, Size, ABW												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 for extension functionaries	Training on carp fry production in paddy field.	01	PF /FW	1 day	OFF									25

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

Name of the Crop / Enterprise	Variety / Type	Period From…… … to ……..	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Rice	NGA DHAN 1203	July to Nov 23	2.0 ha	Seed (F)	60 q/ha	5,000/ha	90,000/ha	40,000/ ha
Seedling	HYV vegetables	July to Sept 23	-	Seedling	20000	10000	30000	20000
Vermin compost	-	Nov- Dec23		Vermin compost	20.0 q	6000	16,000	10,000
Drumstick	PKM-1	Oct 23		Seedling	1000 no	3000	8000	5000
Papaya	Red Lady	Nov 23		Saplings	4000no	10000	50000	40000
Vermin	-	Dec 23		Vermin	5 kg	-	-	4000
Fish	Carp	February,2023	0.5ha	Fingerling	100000 nos	18000	25000	22000

b) Village Seed Production Programme

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

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	6										300
2.	KisanMela	2										500
3.	KisanGhosthi	15										360
4.	Exhibition	5										1000
5.	Film Show	10										500
6.	Method Demonstrations	8										250
7.	Farmers Seminar	2										100
8.	Workshop	1										50
9.	Group meetings	20										400

10.	Lectures delivered as resource persons	10										500
11.	Advisory Services	45										
12.	Scientific visit to farmers field	25										500
13.	Farmers visit to KVK	160										1500
14.	Diagnostic visits	10										250
15.	Exposure visits	2										100
16.	Ex-trainees Sammelan	2										75
17.	Soil health Camp	2										150
18.	Animal Health Camp	1										200
19.	Agri mobile clinic											
20.	Soil test campaigns	1										100
21.	Farm Science Club Conveners meet											
22.	Self Help Group Conveners meetings	1										30
23.	MahilaMandals Conveners meetings	1										30
24.	Celebration of important days (specify)	5										800
25.	Sankalp Se Siddhi	1										250
26.	Swatchta Hi Sewa	10										600
27.	Mahila Kisan Diwas	1										50
28.	Any Other (Specify)	4										400
	Total	350										8995

5. Revolving Fund (in Rs.)

Opening balance of 2024-2025 (As on 01.04.2024)	Amount proposed to be invested during 2024	Expected Return
1,21, 207.50	1,35,000	2,20,000

6. Expected fund from other sources and its proposed utilization

Swachha Bharat	ICAR	0.30
ATMA	ATMA	0.40

7. On-farm trials to be conducted*

OFT-1 Code-24OHO03(K/R)

Season:	Rabi -2024
Title of the OFT:	Assessment of Apical Rooted Cuttings (ARC) of Potato
Thematic Area:	Integrated crop management
Problem diagnosed:	Low tuber formation due to excess heat, Low yield due to late blight disease, Unavailability of quality planting material.
Important Cause:	Non availability of quality planting material

Production system:	Vegetable -Vegetable
Micro farming system:	Irrigated medium land
Technology for Testing	**CIP, BBSR, 2021**
Existing Practice	**Cultivation of Potato by using tuber**
Hypothesis:	Increase yield due to use of resistant potato rooted cuttings
Objective(s):	To obtain maximum yield and profit
Treatments:	2
Farmers Practice (FP):	**Cultivation of Potato tuber K. Jyoti**
Technology option-I (TO-I):	**KufriKiran- Tolerance to heat, mite and hopperburn**, **It produces attractive white-cream, ovoid tubers with shallow eyes and cream flesh, has excellent keeping quality.**
Technology option-II (TO-II):	**Kufri Himalini- High yielding, medium duration (110-120 days), moderately resistant to late blight, Y- 350 q/ha**
Critical Inputs:	Apical Rooted Cuttings
Unit Size:	0.14 ha
No of Replications:	7
Unit Cost:	Rs 1/-
Total Cost:	Rs 10000/-
Source of Technology	**CIP, BBSR, 2021**

OFT-2Code-24OHO09(R)

Season:	Rabi -2024-25
Title of the OFT:	Assessment of Onion varieties in rabi
Thematic Area:	Varietal Replacement
Problem diagnosed:	**Low production, less market demand of un uniform size & light colour onion bulb**
Important Cause:	Non availability of improved varieties
Production system:	Paddy - vegetables

Micro farming system:	**Irrigated Medium land**
Technology for Testing	**DOGR, Pune 2022**
Existing Practice	Use of Local seeds
Hypothesis:	Increase yield due to new released high yielding varieties
Objective(s):	To replace the old variety with new one
Treatments:	02
Farmers Practice (FP):	**Cultivation of Onion variety ADR.**
Technology option-I (TO-I):	**Cultivation of Onion Variety Bhima Shakti.**
Technology option-II (TO-II):	**Cultivation of Onion Variety Bhima Dark Red.**
Critical Inputs:	**Onion Seedlings, Trichoderma**
Unit Size:	0.14 ha
No of Replications:	7
Unit Cost:	Rs.1500/-
Total Cost:	Rs. 10,500/-
Source of Technology	**DOGR, 2022**

OFT-3(Code-24OPP11(K)

Season:	Kharif 2024
Title of the OFT:	Assessment of IDM modules for management ofpanama wilt in Banana
Thematic Area:	IDM
Problem diagnosed:	Low production, High damage of Banana orchard.
Important Cause:	Improper management practices.
Production system:	Fruit - Fruit
Micro farming system:	Irrigated Medium land
Technology for Testing	IDM by using Lime + Neem Cake + Vermi compost + Soil drenching + Stem injection with Synthetic Chemical fungicides at 3^{rd}, 5^{th}, & 7^{th} MAP.
Existing Practice	Use of less effective old disease management techniques.

Hypothesis:	Increase yield of Banana
Objective(s):	Replace the existing old disease management practice.
Treatments:	02
Farmers Practice (FP):	Application of Bavestine @ 2gm/lit. of water.
Technology option-I (TO-I):	Planting of disease-free suckers + apply lime @ 40 g/pit + neem cake @ 250 g/pit + vermicompost 500g + soil drenching of 0.2% Carbendazim 50WP at 2^{nd}, 4^{th}& 6^{th} months after planting (MAP) + stem injection of Carbendazim 50WP @ 2-3 ml/plant (2g/l solution) at 3^{rd}, 5^{th}& 7^{th} MAP
Technology option-II (TO-II):	Planting of disease free suckers + apply lime @ 40 g/pit + neem cake @ 250 g/pit + vermicompost 500 g + soil drenching of 0.1% (Trifloxystrobin + Tebuconazole 75 WP) solution at 2^{nd} , 4^{th}& 6^{th} MAP + stem injection of (Trifloxystrobin + Tebuconazole 75WP) @ 2-3 ml/plant (1g/l solution) at 3^{rd} , 5^{th}& 7^{th} MAP
Critical Inputs:	Lime, Neem cake, vermin compost, Carbendazim, Trifloxystrobin + Tebuconazole 75 WP
Unit Size:	0.14
No of Replications:	07
Unit Cost:	Rs. 1200/-
Total Cost:	Rs.8400/-
Source of Technology	**OUAT, AR, 2019, NRCB, Tamil Nadu, 2018**

OFT-4 (Code-24OPP15(R)

Season:	Kharif, 2024
Title of the OFT:	Assessment of management practices for major insect-pests of cucumber.
Thematic Area:	Integrated Pest Management
Problem diagnosed:	Low production, less market demand of infected cucumber fruits.
Important Cause:	Improper pest management practices.
Production system:	IPM
Micro farming system:	Irrigated Medium land

Technology for Testing	IPM module by using neem base bio pesticide it repels the sucking, biting, chewing pest & Bio-control agents (Entomofagus fungi).
Existing Practice	Use of traditional and low effective chemicals
Hypothesis:	Increase yield cucumber
Objective(s):	Increase yield through farmers friendly IPM module
Treatments:	02
Farmers Practice (FP):	Application of Chloropyriphos @ 2ml./lit.
Technology option-I (TO-I):	Foliar spray of *Beauveriabassiana* @ 5g/l at 25 DAS followed by NSKE 5% and *Metarhiziumanisopliae* @ 5 g/l at 7 days interval
Technology option-II (TO-II):	Installation of blue and yellow sticky traps @ 50 nos./ha at 20 DAS, Application of Neem oil 1500 ppm @ 3 ml/l, Arka Microbial Consortium @ 20 g/l at 10 days interval from 20 DAS. Rotational sprays with Arka Vegetable Special @ 3 g/l, Fipronil @ 1 ml/l, Thiomethoxam @ 0.5 g/l and Dimethoate @ 2 ml/l on weekly basis from 40 DAS.
Critical Inputs:	*Beauveriabassian,* **yellow sticky traps, Neem oil, Arka Microbial Consortium, Arka Vegetable Special, Fipronil, Thiomethoxam & Dimethoate.**
Unit Size:	0.14 ha.
No of Replications:	7
Unit Cost:	Rs. 2200.00
Total Cost:	Rs. 15400/-
Source of Technology	**OUAT, Dept. of Entomology, 2023, ICAR-IIHR, AR, 2020**

OFT-5 (Code-24OFS04 (K)

Season:	Kharif-2023
Title of the OFT:	**Assessment of polyculture of CIFA GI Scampi with IMC**
Thematic Area:	Composite fish culture
Problem diagnosed:	Low yield due to poor quality fish seeds
Important Cause:	Lack of species diversification
Production system:	Pond based system
Micro farming system:	Seasonal domestic pond based small farming situation
Technology for Testing	**GIFT Tilapia and Monosex Tilapia**
Existing Practice	Feeding with artificial supplementary feed @3% of per kg of their body weight
Hypothesis:	Increase yield due to improved quality fish seed
Objective(s):	To increase the household income from per unit area
Treatments:	
Farmers Practice (FP):	Mix Fish culture
Technology option-I (TO-I):	Stocking GI scampi with IMC fingerling (Catla 2000nos: Rohu 3000 nos: GI Scampi 500 nos/ha
Technology option-II (TO-II):	Stocking GI scampi with IMC fingerling (Catla 2000nos: Rohu 3000 nos: Non GI Scampi 500 nos/ha
Critical Inputs:	GIFT Tilapia and Monosex Tilapia
Unit Size:	1.0ha
No of Replications:	7
Unit Cost:	5000/-
Total Cost:	35000/-
Source of Technology	ICAR-National Institute of Abiotic Stress Management 2022 & Krishi Vigyan Kendra, Madur, Karaika, 2017-2018)

OFT-6 (Code-24OFS05(K)

Season:	Kharif-2023
Title of the OFT:	**Assessment of community based initiative in cage culture of GIFT Tilapia**
Thematic Area:	Composite fish culture
Problem diagnosed:	Low yield due to poor quality fish seeds
Important Cause:	Lack of species diversification
Production system:	Pond based system
Micro farming system:	Seasonal domestic pond based small farming situation
Technology for Testing	**GIFT Tilapia and Monosex Tilapia**
Existing Practice	Feeding with artificial supplementary feed @3% of per kg of their body weight
Hypothesis:	Increase yield due to improved quality fish seed
Objective(s):	To increase the household income from per unit area
Treatments:	
Farmers Practice (FP):	Stocking wild tilapia @2000 nos/ha with traditional feeding practices
Technology option-I (TO-I):	Stocking GIFT Tilapia in the pond @ 4000nos/ha with regular feeding with supplementary feed @3% of per kg of their body weight
Technology option-II (TO-II):	Stocking GIFT Tilapia in 1X1X1m PVC fabricated cages @ 4000nos/ha with regular feeding with supplementary feed @3% of per kg of their body weight
Critical Inputs:	GIFT Tilapia and Monosex Tilapia
Unit Size:	1.0ha
No of Replications:	7
Unit Cost:	5000/-
Total Cost:	35000/-
Source of Technology	ICAR-National Institute of Abiotic Stress Management 2022 & Krishi Vigyan Kendra, Madur, Karaika, 2017-2018)

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

Sl. No.	Name of the project	Funding authority	Fund expected (Rs.)
1	CFLD	ICAR-OUAT	21,00,000/-

2	SBM	ICAR-OUAT	35,000/-
3	ATMA	DOA-CDAO	20,000/-
4	ASCI	ASCI	2,42,000/-
5	CoE	OUAT	50,000/-

11. No. of success stories proposed to be developed with their tentative titles—04

12. Scientific Advisory Committee

Date of SAC meeting held during 2023	Proposed date during 2023
16.12.2023	12.01.2025

13. Soil and water testing

Details	**No. of Samples**	**No. of Farmers**									**No. of Villages**	**No. of SHC distributed**
		SC		**ST**		**Other**		**Total**				
		M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**		
Soil Samples	250	50	10	100	50	30	10	180	70	250	10	250
Water Samples	10	02	0	8	0	0	0	10	0	10	10	10
Total	**260**	**52**	**10**	**108**	**50**	**30**	**10**	**190**	**70**	**260**	**20**	**260**

14. Fund requirement and expenditure (Rs.)*

Heads	**Expenditure (last year) (Rs. In lakh) up to 31.03.2024**	**Expected fund requirement (Rs.)**
Contingency	13.5	13.5
TSP	11.0	11.0
TA	1.5	1.5
HRD	0.30	0.30
Library	0.10	0.10
CFLD	3.688	21.0
NR	1.0	1.0
SBM	0.328	0.35
RPL-ASCI	0.828	2.62
CoE	0.79677	0.5
Total	**33.04077**	**51.87**

* Any additional requirement may be suitably justified.

TSP ANNUAL ACTION PLAN KVK, MALKANGIRI (OTHER THEN MANDATES) FOR LIVELIHOOD SECUIRITY: -

Year: 2024-25

Sl.No.	Intervention	Crop/Enterprise	Variety	Unit
1	Vegetable Kitchen Garden	Vegetables (5 types)	Improved	200kits
2	Poultry breed	Asili, Kadaknath, Sonali	Improved	2000 nos.
3	Sweetcorn Cultivation	Sweetcorn	Hybrid	20 units
4	Promotion of Cow pea Cultivation to improve soil fertility.	Cow pea	Hybrid	20 units
5	Small agriculture implements for drudgery reduction.	AgroEquipments	05 types	100 units
6	Mushroom Farming	Mushroom	Paddy Straw /Oyster	20 nos
7	Azolla Pit	Azolla	Corolina	20 units
8	Vermicompost Unit	Vermicompost	E.foetida	20 units
9	Fish Farming	Fish	IMC	10 units
10	Floriculture Unit	Marigold	C.yellow-Orange	10 units
11	Nutritional Garden	Papaya Drumstick	Redlady PKM-1	25 units 25 units
12	Demonstration of IPM Trichogrammachilonis in Paddy.	Tricho card	Trichogrammachilonis	200 nos.
13	Pro tray Nursery	Vegetables	Hybrids	20 units
14	TC Banana orchard	Banana	TC Bantala	20 units
15	SLTS in runner vegetables	Runner vegetables	Hybrid	10 units
16	Off-season Vegetable farming under poly mulch condition.	Tomato, Cauli flower	Hybrids	10 units
17	Use of fortified organic plant nutrients.	Kitchen garden	Organic plant feed	20 units

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

SUCCESS STORY OF INTEGRATED VEGETABLE FARMER YEAR 2024 	
Name of farmer	Dilip Kumar Mallick
Address	S/O – Bankim Mallick, MV -15, GP – Tandapali, Malkangiri, Odisha, India
Adhar No.	622189405952
Contact details (Phone, mobile, email Id)	7735575994 (M)
Landholding (in ha.)	1.5
Name and description of the farm/ enterprise	Integrated farming crops: Paddy, Cauliflower, Brinjal, Ridge gourd, Cow pea, Okra, Bitter Gourd, Radish, Mango, Citrus, Banana
Economic impact	GC: Rs.1,50,000/- GR: Rs. 4,20,000/- NR: Rs. 2,70,000/-
Social impact	Nearby 15 farmer encouraged by observing the growth of Dilip Ku. Mallick and doing off season Cauliflower in 10 hectare. He is supplying regular vegetable to local market, Mandis.
Environmental impact	Throughout the year green coverage by crops & vegetables.
Horizontal/ Vertical spread	KVK to Farmer Vertically and Farmer to other nearby farmer horizontally (10 ha.)
Background information about farmer field	Farmer field around 1 hectare of land is situated 13 Km. distance from District Head quarter and 15 Km. from KVK, Malkangiri. Field has well irrigation facilities with Bore well water source. Started Integrated Farming during the Year 2014
Details of technology demonstrated	Paddy - Hybrid, Cauliflower – Disha, Barkha, Megha, Brinjal – Blue Star, Ridge gourd - Mala, Cow pea – Nishi Kanchan, Okra – VNR, Namdhari, Bitter Gourd-Chotu, Chaman, Katai, Raddish – Pusa Chetaki, Sweet corn – VL Sweet corn, Mango - Baiganpalli, Dasheri, Arka Puneet, Citrus - Kagji, Banana – Patkarpura.
Institutional Involvement	Krishi Vigyan Kendra, Malkangiri provides input support Agro implements-Spray Machine, Paddy – Hasanta, Kala Jeera, IPM in Okra & Cauliflower,

	Training and Throughout the Year Cauliflower farming technology.
Success Point	Technology & input support from KVK, Malkangiri
Farmer Feedback	Variety has good performances and head size is better than traditional use varieties. It can result better during winter planting.

Farm Outcome

Crop	Area (ha)	Season	Yield Q/ha
Paddy	**1.2**	**Kharif**	**42**
Cauliflower	**0.75**	**Rabi**	**182**
Brinjal	**0.02**	**Rabi**	**35**
Cow Pea	**0.02**	**Rabi**	**10**
Okra	**0.2**	**Kharif**	**40**
Ridge Gourd	**0.01**	**Kharif**	**10**
Bitter Gourd	**0.01**	**Kharif**	**05**
Radish	**As inter crop with Cauliflower**		**10**
Mix Fruit Orchard	**0.001**	**Throughout the Year**	**05**

Action Photographs:-






(Dr. Sidhartha Kar)
S/d Senior Scientist & Head
KVK, Malkangiri