

Action Plan 2020

KRISHI VIGYAN KENDRA MAYURBHANJ-1



REVISED PROFORMA FOR ACTION PLAN 2020**1. Name of the KVK: KVK Mayurbhanj-I, Odisha**

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

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

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture & Technology, At/Po-Bhubaneswar – 751003	0674-2392677	0674-2397780	vc@ouat.nic.in

3. Training programme to be organized (April 2020 to March 2021)**(a) Farmers and farmwomen**

Thematic area	Title of Training	No.	Duration	Venue (On/Off)	Tentative Date	No. of Participants																
						SC			ST			Other			Total							
						M	F	M	F	M	F	M	F	M	F	T						
Farm Management	Agricultural operational calendar	1	1	Off	3rd week july																25	
Farm Management	Farm record keeping & its Management	1	1	Off	2nd week nov																	25
Formation and Management of SHGs	Mobilization of capital in SHGs	1	1	Off	2nd Week October																	25
Leadership development	Conflict management in farmers' group	1	1	Off	4th week july																	25
ITK in agriculture	Application of ITK for sustainable groundnut production	1	1	Off	2nd week feb																	25
Market Led Extension	Optimization of market linkage during distress sale of Tomato	1	1	Off	2nd week dec																	25
Crop Insurance	Crop Insurance and its benefits	1	1	Off	1st week of mar																	25
Occupational hazards and Safety Measures	Precautional measures in use of pesticides	1	1	Off	2nd week Aug																	25
Production of organic inputs	Enriched compost production technology	1	1	Off	2nd week Jan																	25
Disease Management	Viral disease management in green gram	1	1	Off	2nd week of Jan																	25
Disease Management	Fungal disease management in groundnut	1	1	Off	2nd week of Dec																	25
Nutrient management	Application of micronutrients for increasing of pod and stover yield of groundnut	1	1	Off	4th week, Jan																	25
Resource conservation technologies	Mulching practice in groundnut	1	1	Off	3rd week of Jan																	25
Weed management	Judicious use of herbicide for weed control in green gram	1	1	Off	1st week of Dec																	25
Weed management	Judicious use of herbicide for weed control in groundnut	1	1	Off	3rd week of Dec																	25

Thematic area	Title of Training	No.	Duration	Venue (On/Off)	Tentative Date	No. of Participants														
						SC		ST		Other		Total								
						M	F	M	F	M	F	M	F	T						
Integrated nutrient management	Efficient use of vermicompost, Azatobacter and PSB culture for better yield in Papaya	1	1	Off	2nd week of Dec															25
Nursery raising	Propagation technique in marigold cultivation	1	1	off	1st week of Nov															25
Off-season vegetables	Off season vegetable cultivation of Tomato	1	1	off	2nd week of Aug															25
Yield increment	Application of hormrone in cucurbits for flowering and yield enhancement	1	1	Off	1st week of Aug															25
Feeding management	Preparation of low cost feed using locally available ingredients.	1	1	Off	1st Week, July															20
Feeding management	Use of floating feed in fish farming	1	1	Off	1st Week Sept															20
Production & Management	Intercropping of minor carps in IMC culture	1	1	Off	2nd Week Nov															20
Small scale income generation	Fry-Fingerling production in small and seasonal ponds	1	1	Off	3rd Week June															20
Income generation activities for empowerment of rural Women	Paddy straw mushroom cultivation technique using threshed straw	1	2	Off	3rd week july															25
Income generation activities for empowerment of rural Women	Precautionary measures for higher yield in mushroom	1	1	Off	3rd week of Aug.															25
Location specific drudgery reduction technologies	Safety use of NRRI paddy parboiling drum for drudgery reduction of farm women	1	2	Off	2nd week of Feb															25
Production Management	Rearing practices of Aseel breed at backyard	1	1	Off	3rd week August															25
Production Management	Rearing practices of Kadaknath breed at backyard	1	1	Off	1rd week Sept															25
Household food security by kitchen gardening and nutrition gardening	Proper planning and lay out of nutritional garden	1	1	Off	2nd week July															25
Value addition	Value addition of tomato by preparing tomato concentrate	1	2	On	2nd week Dec															25
Storage loss minimization techniques	Storage technique of green gram by ITK	1	1	Off	3rd week Dec															25
Value addition	Value addition of tomato by preparing tomato powder	1	2	On	1st week of Jun															25

(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						
Enterprise development	Entrepreneurship development through preparation and use of different organic products	1	3	On	2nd week of Mar															15
Enterprise development	Entrepreneurship development through establishment of vegetable nursery raising	1	3	On	3rd week of Aug															15
Production and management technology	Commercial cultivation of major tuber crops	1	3	On	3rd week of Nov															15
Production & Management	Culture practices in cages through community participation	1	3	On	3rd week Nov															15
Production & Management	Culture practices in cages through community participation	1	3	On	3rd week Dec															15
IDM	Integrated disease management in Fish farming	1	3	On	3rd Week Sept															15
IFS	Integrated fish farming	1	3	On	4th Week June															15
IFS	Integrated fish farming	1	3	On	4th Week Dec															15
Production & Management	Seed production through portable Carp hatchery	1	3	On	3rd Week July															15
Small scale income generation	Ornamental Fish farming in backyard	1	3	On	2nd Week October															15
Production & Management	Water quality management in Fish farming	1	3	On	4th Week August															15
Production & Management	Culture practices of Kou(Anabas testudinous) in small backyard ponds	1	3	On	4th Week Sept															15
Production & Management	Culture practices of Amur carp (Cyprinus carpio haematopterus (Amur carp) under composite fish culture	1	3	On	2nd week September															15
Production & Management	CARP-MOLA Polyculture	1	3	On	4th Week Oct.															15
Production & Management	BIOFLOC based fish farming practices	1	3	On	4th Week July															15
Production & Management	BIOFLOC based fish farming practices	1	3	On	5th Week Nov															15
Production & Management	BIOFLOC based fish farming practices	1	3	On	2nd week August															15
Production & Management	BIOFLOC based fish farming practices	1	3	On	2nd week October,															15
Mushroom Production	Paddy straw Mushroom cultivation techniques	1	3	On	2nd Week July															15
Mushroom Production	Paddy straw Mushroom cultivation techniques	1	3	On	3rd Week Aug															15
Mushroom Production	Oyster Mushroom cultivation techniques	1	3	On	4th Week Dec															15
Mushroom Production	Oyster Mushroom cultivation techniques	1	3	On	3rd week Nov															15
Value addition	Training on preparation of value added products from Sabai	1	5	On	3rd week Dec															15
Mushroom Production	Mushroom Spawn production for income generation	1	5	on	2nd Week October															15

(c) Extension functionaries

Thematic area	Title of Training	No.	Duration	Venue (On/Off)	Tentative Date	No. of Participants													
						SC			ST			Other			Total				
						M	F	T	M	F	T	M	F	T	T				
ICT in agriculture	Application of ICT in climate change with reference to crop production	1	2	On	4th week of sept														25
Skill development	Production of quality audio visual materials	1	2	On	1st week of Sept														25
Production & Management	BIOFLOC based fish farming practices	1	2	On	2nd week Jan														25
Production & Management	BIOFLOC based fish farming practices	1	2	On	2nd week of Feb														25
Drudgery reduction	Safety measures in using women friendly farm tools	1	2	On	4th week Sept														25
Household food security	Nutritional Food Security of farm women	1	2	On	2nd week Nov														25

Abstract of Training: Consolidated table (ON and OFF Campus)-Farmers and Farm women

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
I. Crop Production														
Weed Management	2													50
Resource Conservation Technologies	1													25
Cropping Systems														
Crop Diversification														
Integrated Farming														
Water management														
Seed production														
Nursery management														
Integrated Crop Management														
Fodder production														
Production of organic inputs														
Others (Disease Management)	2													50
Others (INM)	1													25
TOTAL	6													150
II. Horticulture														
a) Vegetable Crops														
Integrated nutrient management	1													25
Water management														
Enterprise development														
Skill development														
Yield increment	1													25
Production of low volume and high value crops														
Off-season vegetables	1													25
Nursery raising	1													25
Exotic vegetables like Broccoli														

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				
Export potential vegetables														
Grading and standardization														
Protective cultivation (Green Houses, Shade Net etc.)														
Others, if any (Cultivation of Vegetable)														
TOTAL	4													100
b) Fruits														
Training and Pruning														
Layout and Management of Orchards														
Cultivation of Fruit														
Management of young plants/orchards														
Rejuvenation of old orchards														
Export potential fruits														
Micro irrigation systems of orchards														
Plant propagation techniques														
Others, if any(INM)														
TOTAL														
c) Ornamental Plants														
Nursery Management														
Management of potted plants														
Export potential of ornamental plants														
Propagation techniques of Ornamental Plants														
Others, if any														
TOTAL														
d) Plantation crops														
Production and Management technology														
Processing and value addition														
Others, if any														
TOTAL														
e) Tuber crops														
Production and Management technology														
Processing and value addition														
Others, if any														
TOTAL														
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														

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				
Integrated Nutrient Management														
Production and use of organic inputs														
Management of Problematic soils														
Micro nutrient deficiency in crops														
Nutrient Use Efficiency														
Soil and Water Testing														
Others, if any														
TOTAL														
IV. Livestock Production and Management														
Dairy Management														
Poultry Management														
Piggery Management														
Rabbit Management														
Disease Management														
Feed management														
Production of quality animal products														
Others, if any (Goat farming)														
TOTAL														
V. Home Science/Women empowerment														
Household food security by kitchen gardening and nutrition gardening	1													25
Design and development of low/minimum cost diet														
Designing and development for high nutrient efficiency diet														
Minimization of nutrient loss in processing														
Gender mainstreaming through SHGs														
Storage loss minimization techniques	1													25
Enterprise development														
Value addition	2													50
Income generation activities for empowerment of rural Women	2													50
Location specific drudgery reduction technologies	1													25
Rural Crafts														
Capacity building														
Women and child care														
Others (Production Management)	2													50
TOTAL	9													225
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														
Small scale processing and value addition														
Post Harvest Technology														

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				
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	1													20
Composite fish culture & fish disease														
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	2													40
Hatchery management and culture of freshwater prawn														
Breeding and culture of ornamental fishes														
Portable plastic carp hatchery														
Pen culture of fish and prawn														
Shrimp farming														
Edible oyster farming														
Pearl culture														
Fish processing and value addition														
Others, if any (Production & Management)	1													20
TOTAL	4													80
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	1													25
Group dynamics														
Formation and Management of SHGs	1													25
Mobilization of social capital														

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any (Skill Development)													
TOTAL	2												50
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Agriculture Extension)													
Farm Management	2												50
ITK in agriculture	1												25
Market Led Extension	1												25
Crop Insurance	1												25
Occupational hazards and Safety Measures	1												25
Production of organic inputs	1												25
TOTAL	7												175

Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom Production	5												75
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition	1												15
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													

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				
Freshwater prawn culture														
Shrimp farming														
Pearl culture														
Cold water fisheries														
Fish harvest and processing technology														
Fry and fingerling rearing														
Small scale processing														
Post Harvest Technology														
Tailoring and Stitching														
Rural Crafts														
Enterprise development	2													30
Others(Production and management technology)	1													15
Others(Production & Management)	11													165
Others(SSIGA)	1													15
Others (IDM)	1													15
Others (IFS)	2													30
TOTAL	24	0	0	0	0	0	0	0	0	0	0	0	0	360

Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Productivity enhancement in field crops														
Integrated Pest Management														
Integrated Nutrient management														
Rejuvenation of old orchards														
Value addition														
Protected cultivation technology														
Formation and Management of SHGs														
Group Dynamics and farmers organization														
Information networking among farmers														
Capacity building for ICT application														
Care and maintenance of farm machinery and implements														
WTO and IPR issues														
Management in farm animals														
Livestock feed and fodder production														
Household food security	1													25
Women and Child care														
Low cost and nutrient efficient diet designing														
Production and use of organic inputs														
Gender mainstreaming through SHGs														
Crop intensification														
Others (Production & Management)	2													50
Others (Drudgery reduction)	1													25
Others (Skill development)	1													25
Others (ICT in agriculture)	1													25
TOTAL	6													150

4. Frontline demonstration to be conducted*

Crop	Thrust Area	Thematic Area	Season	Farming Situation
Tomato	IPM and IDM in fruits and vegetables	Integrated Disease Management	Rabi 2020-21	Irrigated medium land
Ground nut	Oilseed and pulse cultivation	Varietal replacement	Rabi 2020-21	Rainfed medium land
Black gram	Oilseed and pulse cultivation	Varietal replacement	Rabi 2020-21	Rainfed medium land
Fish	Commercial pisciculture	Production and Management	Rabi 2020-21	Rainfed/fish pond
Fish	Intercropping minor carp to increase fish production	Production and Management	Rabi 2020-21	Rainfed
Fish	Intercropping CARP MOLA polyculture to increase fish production	Production and Management	Rabi 2020-21	Rainfed
Fish	Commercial pisciculture	Production and Management	Kharif 2020	Rainfed
Mango	Value addition of fruits and vegetables	Value addition	Rabi 2020-21	Homestead
Fruits and Vegetables	Nutritional garden	Nutritional security	Round the year	Backyard
Rice	Promotion of implements for drudgery reduction of farm women	Drudgery reduction	Kharif 2020	Homestead
Tomato	Value addition of fruits and vegetables	Value addition	Rabi 2020-21	Homestead
Video Technology	Promotion of short video through whats app	Capacity building for ICT application	Round the year	

4.1 Frontline demonstration to be conducted

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration													
					Name of Inputs	Demo	Local	S		S		Oth		Total							
								C	T	F	F	F	F	M	F	M	F	T			
1	Arka Rakshak	0.4ha	Demonstration of triple disease resistant tomato hybrid Arka Rakshak	Wilt incidence (%), PDI of early blight & ToLCV, Fruit wt(g), Yield(q/ha)	Tomato seedlings																10
2	Dharani	0.4ha	Demonstration of Dharani variety of groundnut	Pod yield,Haulm yield,shelling %,100 kernel wt	Seeds																10
3	IPU-2-43	0.4ha	Demonstration on IPU-2-43 variety of Blackgram	No.ofpods/plant,No of seeds/plant.testweight(gm), Duration (Days)	Seeds																10
4	Air breathing Fish	1.0ha	Demonstration on Kou (Anabas testudinous) in small backyard ponds	Survivality(%),SGR, TWG	Koi seeds																5
5	Fish	1.0ha	Demonstration on fish production by	SGR, ABW and TWG of Punti	Minor carps																5

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	S C		S T		Other		Total					
								M	F	M	F	M	F	M	F	T			
			intercropping minor carps in IMC culture																
6	Fish	1.0ha	Demonstration on CARP-MOLA Polyculture	SGR, TWG	Mola														5
7	fish seed rearing	1.0ha	Demonstration on fry-fingerling production in small and seasonal ponds	Survivability (%), quantity produced (No/ha)	Fry														5
8	Mango	10	Demonstration of mango leather in Solar cabinet dryer	Sensory evaluation (Over all acceptability by Hedonic Scale of rating) and keeping quality (month)	Solar dryer														10
9	Fruits and Vegetables	10	Demonstration of nutritional garden for Improving Nutritional Security of farm family	Consumption of vegetables/day (gm/day), Yield (kg/m2), Availability of vegetable/day	Vegetable seed, seedlings and saplings														10
10	Paddy Parboiling	10	Demonstration on NRRI paddy Parboiling Drum for Drudgery reduction of farm women	Output (kg /batch), Heart rate (beats/min), Energy Expenditure (kJ/Min	NRRI parboiling drum														10
11	Tomato	10	Demonstration of Tomato powder to avoid distress sale	Sensory evaluation (Over all acceptability by Hedonic Scale of rating) and keeping quality (month)	Tomato														10
12	Video Technology	10	Demonstration on effectiveness of short technology videos on technology adoption	Understanding the method and process depicted in the vide Retention of the message	short video														10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Client ele	Dura tion	Venue On/Off	No. of Participants													
						SC		ST		Other		Total		T					
						M	F	M	F	M	F	M	F						
Field Day	Field day on demonstration of triple resistance variety of tomato	1	RY	1	Off														30
Field Day	Field day on demonstration of Dharani variety of ground nut	1	RY	1	Off														30
Field Day	Field day on demonstration of IPu2-43 variety of Black gram	1	RY	1	Off														30
Farmers club	Production management of Kou (Anabas testudinous) in small	1	RY	1	Off														30

meeting	backyard ponds																		
Farmers club meeting	Production management of minor carps in IMC culture	1	RY	1	Off														30
Group meeting	production management of CARP MOLA polyculture	2	RY	1	Off														30
Awareness camp	Production and management on fry- fingerling production in small and seasonal ponds	2	RY	1	Off														30
Minikit trial	Minikit trial of value addition of mango through solar dryer in SHG	2	RY	1	On														30
Group meeting	kitchen garden	2	RY		Off														30
Field Day	field day on demonstration on NRRI paddy Parboiling Drum for Drudgery reduction of farm women	1	RY	1	Off														30
Minikit trial	Minikit trial of value addition of tomato in SHG	2	RY	1	On														30
Group meeting	effectiveness of short technology videos on technology adoption	2	RY	1	Off														30

5. 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 Production	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income(Rs.)	Expected Net Income (Rs.)
Paddy	Pooja	August to December	8.0	FS	286.0			
Paddy	Swarna Sub-I	August to December	6.0	FS	214.0			
Vegetables	Hybrid	June to March	200sq.ft		3.5lakhs			
Poultry chicks	Rainbow rooster	July to January			5000nos.			
Mushroom spawn (Paddy straw)	V.Volvacea	June to September	-		250nos			
Mushroom spawn(Oyster)	P. species	November to January			250 nos			
Mushroom spawn(Paddy straw & Oyster)	V.Volvacea & P. species	June to September & November to January			1.5quintal			
Vermicompost	-	July to January			5.0 quintal			
Azolla	-	July to January			1.0 quintal			

b) Village Seed Production Programme

Name of the Crop / Enterprise	Variety / Type	Period From 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.)
Green gram	IPM 2-14	March to May	200	250	CS	750.0	-	-	-

6. 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	8										400
2.	KisanMela	3										600
3.	KisanGhoshi	2										150
4.	Exhibition	2										200
5.	Film Show	12										300
6.	Method Demonstrations	10										150
7.	Farmers Seminar	2										200
8.	Workshop	1										50
9.	Group meetings	30										500
10.	Lectures delivered as resource persons	-										-
11.	Advisory Services	50										10000
12.	Scientific visit to farmers field	80										800
13.	Farmers visit to KVK	250										250
14.	Diagnostic visits	20										100
15.	Exposure visits	1										30
16.	Ex-trainees Sammelan	2										80
17.	Soil health Camp	1										100
18.	Animal Health Camp	1										100 animals (Large & Small)
19.	Agri mobile clinic	-	-	-								-
20.	Soil test campaigns	1										100
21.	Farm Science Club Conveners meet	1										50
22.	Self Help Group Conveners meetings	1										50
23.	Mahila Mandals Conveners meetings	1										50
24.	Celebration of important days (specify)	9										240
25.	Swatchta Hi Sewa	5										150
26.	Mahila Kisan Diwas	1										60
	Total	494	0	0	0	0	0	0	0	0	0	14710

7. Revolving Fund (in Rs.)

Opening balance of 2020-21 (As on 01.04.2020)	Amount proposed to be invested during 2020-21	Expected Return
5000	1100000	1400000

8. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
TSP	ICAR	16.0
CSISA Project	ICAR	1.00
CFLD(Oilseed) on Groundnut	ICAR	-
CFLD(Pulses) on Green gram	ICAR	-

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

i	Season	Rabi 2020-21
ii	Title of the OFT	Assessment of Integrated nutrient management in papaya
iii	Thematic Area	Integrated nutrient management
iv	Problem diagnosed	Low yield of Papaya
v	Important Cause	Indiscriminate use of fertilizers
vi	Production system	Irrigated and medium land
vii	Micro farming system	
viii	Technology for Testing	Integrated nutrient management in papaya
ix	Existing Practice	Indiscriminate use of chemical fertilizers
x	Hypothesis	Use of straw mulch, vermicompost, azotobacter and PSB culture will increase the yield of papaya
xi	Objective(s)	To study the INM practices in papaya
xii	Treatments	
	Farmers Practice (FP)	Indiscriminate use of chemical fertilizers
	Technology option-I	RDF(300:300:300 N:P:K kg/ha) +straw mulch+ vermicompost
	Technology option-II	75% of RDF+ Straw mulch +Vermicompost(4t/ha)+Azotobacter(1kg/ac) +PSB Culture(1kg in 10-15lt water/ac)
Xiii	Critical Inputs	
Xiv	Unit Size	0.4ha
Xv	No of Replications	7
Xvi	Unit Cost	
Xvii	Total Cost	
Xviii	Monitoring Indicator	Days to flowering, no. of fruits /plant, fruit wt(gm), yield(q/ha)
XIX	Source of Technology (ICAR/ AICRP/ SAU/ Other)	AICRP on water management RRTTS, Chiplima

OFT-2:

i	Season	Rabi, 2020-21
ii	Title of the OFT	Assessment of Growth performance of amur carp(Cyprinus carpio haematopterus (Amur carp) under composite fish culture in rabi
iii	Thematic Area	Production management
iv	Problem diagnosed	Slow growth rate of mrigal affects the average yield from composite carp culture
v	Important Cause	High growth and production in Amur carp
vi	Production system	Rainfed/Irrigated
vii	Micro farming system	
viii	Technology for Testing	Growth performance of amur carp(Cyprinus carpio haematopterus (Amur carp) under composite fish culture
ix	Existing Practice	Mrigal as bottom feeder with stocking rate up to 30% or more
x	Hypothesis	Enhancement of product value and quality through value addition
xi	Objective(s)	Utilization of surplus production for sustainable income
xii	Treatments	
	Farmers Practice (FP)	Mrigal as bottom feeder with stocking rate up to 30% or more
	Technology option-I	Stocking ratio C:R:M:Amur carp = 30:40:20:10
	Technology option-II	Stocking ratio C:R:M:Amur carp = 30:40:10:15:15
	Technology option-III	Stocking ratio C:R: M :Amur carp = 30:40:10:20
xiii	Critical Inputs	Amur carp fingerlings
xiv	Unit Size	5
xv	No of Replications	5
xvi	Unit Cost	4000
xvii	Total Cost	20000
xviii	Monitoring Indicator	Survivability (%), SGR, TWG
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other)	Karnataka Veterinary, Animal and Fisheries Sciences, University, Bidar,2013

OFT-3:

i	Season	Rabi, 2020-21
ii	Title of the OFT	Assessment of growth performance of different species in cage culture
iii	Thematic Area	Resource management
iv	Problem diagnosed	Quantification of Standardization biomass production through farmer participatory based cage culture
v	Important Cause	Proper utilization of reservoirs
vi	Production system	Reservoir
vii	Micro farming system	
viii	Technology for Testing	Biomass production through farmer participatory based cage culture
ix	Existing Practice	New production
x	Hypothesis	Standardization of growth performance and stocking density in cages
xi	Objective(s)	Proper study of growth performance of species in cage
xii	Treatments	
	Farmers Practice (FP)	New introduction
	Technology option-I	Stocking of Pangas (Pangasianodon hypophthalmus) @ 25 nos./m ³ of fingerlings
	Technology option-II	Stocking Amur carp, (Cyprinus carpio haematopterus) @ 25 nos./m ³ of fingerlings

	Technology option-III	Stocking ratio GIFT tilapia Oreochromis niloticus @ 40 nos/m ³
	Technology option-IV	Indian featherback/knifefish, Notopterus chitala @ 40 nos/m ³
xiii	Critical Inputs	Fingerlings
xiv	Unit Size	5
xv	No of Replications	5
xvi	Unit Cost	5000
xvii	Total Cost	25000
xviii	Monitoring Indicator	Survivability(%), SGR, TWG
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other)	CIFRI, Barrackpore, ,2016

OFT-4:

i	Season	Kharif,2020
ii	Title of the OFT	Assessment of scrambled paddy straw as substrate for paddy straw mushroom cultivation
iii	Thematic Area	Mushroom cultivation
iv	Problem diagnosed	Increase cost of unscrambled paddy straw due to its low availability
v	Important Cause	Utilization of scrambled straw
vi	Production system	Homestead
vii	Micro farming system	
viii	Technology for Testing	Scrambled paddy straw as substrate for paddy straw mushroom cultivation
ix	Existing Practice	Mushroom production by using unscrambled paddy straw with normal practice (soaking of 7kg straw in water for 8hrs, bed preparation with addition of spawn and pulse powder 3%)
x	Hypothesis	Utilisation of the scrambled paddy straw gives additional income and proper resource management
xi	Objective(s)	For generation of additional income by utilising the scrambled paddy straw
xii	Treatments	
	Farmers Practice (FP)	Mushroom production through unscrambled straw
	Technology option-I	Mushroom production by using scrambled paddy straw (soaking in water-8hr)
	Technology option-II	Mushroom production by using scrambled paddy straw (soaking in water-6hr)
Xiii	Critical Inputs	Mushroom spawn, Polythene, Bengal gram flour
Xiv	Unit Size	7
Xv	No of Replications	7
Xvi	Unit Cost	200
Xvii	Total Cost	1400
Xviii	Monitoring Indicator	Pin head appearance (days), Days of harvesting, Biological Efficiency (%)
Xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	KVK,Keonjhar,2016

OFT-5:

i	Season	Round the year ,2020
ii	Title of the OFT	Assessment of Poultry breed in Backyard
iii	Thematic Area	Poultry Breed evaluation
iv	Problem diagnosed	low income from rearing existing poultry breed
v	Important Cause	Non availability of improved breed
vi	Production system	Backyard
vii	Micro farming system	
viii	Technology for Testing	Backyard rearing of poultry breed
ix	Existing Practice	Backyard rearing of local breed
x	Hypothesis	Increase in income and resistant to disease by adopting poultry rearing at backyard
xi	Objective(s)	for generation of more income by poultry rearing at backyard
xii	Treatments	
	Farmers Practice (FP)	Backyard rearing of local breed
	Technology option-I	Backyard rearing of poultry breed "Aseel"
	Technology option-II	Backyard rearing of Poultry breed Kadaknath
Xiii	Critical Inputs	Poultry chicks 21 years old
Xiv	Unit Size	7
Xv	No of Replications	7
Xvi	Unit Cost	75
Xvii	Total Cost	7500
Xviii	Monitoring Indicator	Egg per year , ABW (Kg), Additional income
Xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	Source : CARI,Odisha, Jhabua, M.P

OFT-6:

i	Season	Rabi,2020-21
ii	Title of the OFT	Assessment of different planting time for better market price of Tomato in rabi
iii	Thematic Area	Market Led Extension
iv	Problem diagnosed	Distress sale of tomato
v	Important Cause	Lack of awareness in proper planting time among farmers
vi	Production system	Irrigated and medium land
vii	Micro farming system	
viii	Technology for Testing	Different planting time for better market price of Tomato
ix	Existing Practice	Farmers generally plant the seedling in the month of October
x	Hypothesis	Relationship between distress sale of Tomato with different planting time
xi	Objective(s)	Effect of different planting of tomato in price of sale
	Treatments	
	Farmers Practice (FP)	Farmers generally plant the seedling in the month of October
	Technology option-I	Planting of seedling 15 days before onset of normal planting period
xii	Technology option-II	Planting of seedling 15 days after completion of normal planting period
xiii	Critical Inputs	Tomato seedlings

xiv	Unit Size	0.4 ha
xv	No of Replications	7
xvi	Unit Cost	1000
xvii	Total Cost	7000
xviii	Monitoring Indicator	Plant height, -No. of fruits/plant, Fruit weight, Disease & pest incidence
xix	Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)	Post Harvest Technology Centre, TNAU, 2015

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

Name of the project	Fund expected (Rs.)
Pulse Seed Hub(Green gram)	5lakh

11. No. of success stories proposed to be developed with their tentative titles-one (Integrated Fish Farming)

12. Scientific Advisory Committee

Date of SAC meeting held during 2019-2020	Proposed date during 2020-21
30.08.2019	30.08.2020

13. Soil and water testing

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distributed	
		SC		ST		Other		Total					
		M	F	M	F	M	F	M	F	T			
Soil Samples	100										85	5	-
Water Samples	150										120	10	
Other (Please specify)	-												
Total	250										205	15	

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs. in lakh) up to 31.03.2019	Expected fund requirement (Rs. in lakh)
i. Pay & allowance	-	80.0
ii. Contingency	10.98800	27.0
iii. TA	0.70	2.5
iv. HRD	-	-
Non-recurring (specify)		
i. Works (Road, threshing floor, drying yard, vehicle and implement shed, irrigation system etc.)	-	10.0
iv. Furniture & Equipment	-	-
v. Vehicle and tractor	6.32427	-

15. Every KVK should bring a brief write-up supported by quality photographs about the technology having wide acceptability among the farming community of the district with factual data

16. Training Programme of KVK Mayurbhanj-I for the Year 2020-21

Sl. No	Thematic area	Title	Category of Training	Venue	Duration	No. of Courses	Tentative week & Month	No. of Participants	Discipline
1	Farm Management	Agricultural operational calendar	FW	Off	1	1	3rd week July	25	Ag. Extension
2	Farm Management	Farm record keeping & its Management	FW	Off	1	1	2nd week Nov	25	Ag. Extension
3	Formation and Management of SHGs	Mobilisation of capital in SHGs	FW	Off	1	1	2nd Week October	25	Ag. Extension
4	Leadership development	Conflict management in farmers' group	FW	Off	1	1	4th week July	25	Ag. Extension
5	ITK in agriculture	Application of ITK for sustainable groundnut production	FW	Off	1	1	2nd week Feb	25	Ag. Extension
6	Market Led Extension	Optimization of market linkage during distress sale of Tomato	FW	Off	1	1	2nd week Dec	25	Ag. Extension
7	Crop Insurance	Crop Insurance and its benefits	FW	Off	1	1	1st week of Mar	25	Ag. Extension
8	Occupational hazards and Safety Measures	Precautional measures in use of pesticides	FW	Off	1	1	2nd week Aug	25	Ag. Extension
9	Production of organic inputs	Enriched compost production technology	FW	Off	1	1	2nd week Jan	25	Ag. Extension
10	Disease Management	Viral disease management in greengram	FW	Off	1	1	2nd week of Jan	25	Agronomy
11	Disease Management	Fungal disease management in groundnut	FW	Off	1	1	2nd week of Dec	25	Agronomy
12	Nutrient management	Application of micronutrients for increasing of pod and stover yield of groundnut	FW	Off	1	1	4th week, Jan	25	Agronomy
13	Resource conservation technologies	Mulching practice in groundnut	FW	Off	1	1	3rd week of Jan	25	Agronomy
14	Weed management	Judicious use of herbicide for weed control in green gram	FW	Off	1	1	1st week of Dec	25	Agronomy
15	Weed management	Judicious use of herbicide for weed control in groundnut	FW	Off	1	1	3rd week of Dec	25	Agronomy
16	Integrated nutrient management	Efficient use of vermicompost, Azatobacter and PSB culture for better yield in Papaya	FW	Off	1	1	2nd week of Dec	25	Horticulture
17	Nursery raising	Propagation technique in marigold cultivation	FW	off	1	1	1st week of Nov	25	Horticulture
18	Off-season vegetables	Off season vegetable cultivation of Tomato	FW	off	1	1	2nd week of Aug	25	Horticulture
19	Yield increment	Application of hormone in cucurbits for flowering and yield enhancement	FW	Off	1	1	1st week of Aug	25	Horticulture
20	Feeding management	Preparation of low cost feed using locally available ingredients.	FW	Off	1	1	1st Week, July	20	Fishery science
21	Feeding management	Use of floating feed in fish farming	FW	Off	1	1	1st Week Sept	20	Fishery science
22	Production & Management	Intercropping of minor carps in IMC culture	FW	Off	1	1	2nd Week Nov	20	Fishery science
23	Small scale income generation	Fry-Fingerling production in small and seasonal ponds	FW	Off	1	1	3rd Week June	20	Fishery science
24	Income generation activities for empowerment of rural	Paddy straw mushroom cultivation technique using threshed straw	FW	Off	1	2	3rd week July	25	Home science

Sl. No	Thematic area	Title	Category of Training	Venue	Duration	No. of Courses	Tentative week & Month	No. of Participants	Discipline
	Women								
25	Income generation activities for empowerment of rural Women	Precautionary measures for higher yield in mushroom	FW	Off	1	1	3rd week of Aug.	25	Home science
26	Location specific drudgery reduction technologies	Safety use of NRRI paddy parboiling drum for drudgery reduction of farm women	FW	Off	1	2	2nd week of Feb	25	Home science
27	Production Management	Rearing practices of Aseel breed at backyard	FW	Off	1	1	3rd week August	25	Home science
28	Production Management	Rearing practices of Kadaknath breed at backyard	FW	Off	1	1	1rd week Sept	25	Home science
29	Household food security by kitchen gardening and nutrition gardening	Proper planning and lay out of nutritional garden	FW	Off	1	1	2nd week July	25	Home science
30	Value addition	Value addition of tomato by preparing tomato concentrate	FW	On	1	2	2nd week Dec	25	Home science
31	Storage loss minimization techniques	Storage technique of green gram by ITK	FW	Off	1	1	3rd week Dec	25	Home science
32	Value addition	Value addition of tomato by preparing tomato powder	FW	On	1	2	1st week of Jun	25	Home science
33	ICT in agriculture	Application of ICT in climate change with reference to crop production	IS	On	1	2	4th week of sept	25	Ag. Extension
34	Skill development	Production of quality audio visual materials	IS	On	1	2	1st week of Sept	25	Ag. Extension
35	Production & Management	BIOFLOC based fish farming practices	IS	On	1	2	2nd week Jan	25	Fishery science
36	Production & Management	BIOFLOC based fish farming practices	IS	On	1	2	2nd week of Feb	25	Fishery science
37	Drudgery reduction	Safety measures in using women friendly farm tools	IS	On	1	2	4th week Sept	25	Home science
38	Household food security	Nutritional Food Security of farm women	IS	On	1	2	2nd week Nov	25	Home science
39	Enterprise development	Entrepreneurship development through preparation and use of different organic products	RY	On	1	3	2nd week of Mar	15	Ag. Extension
40	Enterprise development	Entrepreneurship development through establishment of vegetable nursery raising	RY	on	1	3	3rd week of Aug	15	Horticulture
41	Production and management technology	Commercial cultivation of major tuber crops	RY	on	1	3	3rd week of Nov	15	Horticulture
42	Production & Management	Culture practices in cages through community participation	RY	On	1	3	3rd week Nov	15	Fishery science
43	Production & Management	Culture practices in cages through community participation	RY	On	1	3	3rd week Dec	15	Fishery science
44	IDM	Integrated disease management in Fish farming	RY	On	1	3	3rd Week Sept	15	Fishery science
45	IFS	Integrated Fish Farming	RY	On	1	3	4th Week June	15	Fishery science
46	IFS	Integrated Fish Farming	RY	On	1	3	4th Week Dec	15	Fishery science
47	Production &	Seed production through	RY	On	1	3	3rd Week	15	Fishery

Sl. No	Thematic area	Title	Category of Training	Venue	Duration	No. of Courses	Tentative week & Month	No. of Participants	Discipline
	Management	portable Carp hatchery					July		science
48	Small scale income generation	Ornamental Fish farming in backyard	RY	On	1	3	2nd Week October	15	Fishery science
49	Production & Management	Water quality management in Fish farming	RY	On	1	3	4th Week August	15	Fishery science
50	Production & Management	Culture practices of Kou(Anabas testudinous) in small backyard ponds	RY	On	1	3	4th Week Sept	15	Fishery science
51	Production & Management	Culture practices of Amur carp(Cyprinus carpio haematopterus (Amur carp) under composite fish culture	RY	On	1	3	2nd week September	15	Fishery science
52	Production & Management	CARP-MOLA Polyculture	RY	On	1	3	4th Week Oct.	15	Fishery science
53	Production & Management	BIOFLOC based fish farming practices	RY	On	1	3	4th Week July	15	Fishery science
54	Production & Management	BIOFLOC based fish farming practices	RY	On	1	3	5th Week Nov	15	Fishery science
55	Production & Management	BIOFLOC based fish farming practices	RY	On	1	3	2nd week August	15	Fishery science
56	Production & Management	BIOFLOC based fish farming practices	RY	On	1	3	2nd week October,	15	Fishery science
57	Mushroom Production	Paddy straw Mushroom cultivation techniques	RY	On	1	3	2nd Week July	15	Home science
58	Mushroom Production	Paddy straw Mushroom cultivation techniques	RY	On	1	3	3rd Week Aug	15	Home science
59	Mushroom Production	Oyster Mushroom cultivation techniques	RY	On	1	3	4th Week Dec	15	Home science
60	Mushroom Production	Oyster Mushroom cultivation techniques	RY	On	1	3	3rd week Nov	15	Home science
61	Value addition	Training on preparation of value added products from Sabai	RY	On	1	5	3rd week Dec	15	Home science
62	Mushroom Production	Mushroom Spawn production for income generation	RY	on	1	5	2nd Week October	15	Home science

17. TRIBAL SUB PLAN 2020-21

ABSTRACT OF BUDGET ESTIMATES FOR TRIBAL SUB PLAN

Sl.No	Particulars	Budget (Rs.)	Beneficiaries	Groups
1	Hybrid Gyno-dioecious Papaya based nutritional gardening in backyard condition	3,60,000.00	200	20
2.	Polyculture of IMC with Freshwater Prawn	86,750.00	15	5
3	Breed replacement by synthetic dual purpose free range improved poultry breeds	2,80,000.00	400	40
4	Demonstration of community based nursery raising by engaging migrant labourers for livelihood support	19,600.00	100	4
	TOTAL COST	7,46,350	715	69

17.1. TRIBAL SUB PLAN ACTIVITY 2020-21**1. HYBRID GYNO-DIOECIOUS PAPAYA BASED NUTRITIONAL GARDENING IN BACKYARD CONDITION**

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

2. POLY CULTURE OF IMC WITH FRESHWATER PRAWN

Name of the Technology	:	Polyculture of IMC with Freshwater Prawn
Problem	:	Under utilization of pond carrying capacity and less profit from the existing IMC culture practices only
Intervention	:	Polyculture of IMC with freshwater prawn
Beneficiary	:	15nos
No. of Units	:	5groups(3members in one group)
Unit Size	:	05 nos./5 group (03 nos. in one group)
Input requirement including the cost	:	A. Cost of scampi seed. @ Rs.10,000/ group = Rs. 50,000/- B. Cost of water testing kits for monitoring of water parameters (pH, Alkalinity, Hardness, DO, Turbidity) and net for initial rearing of scampi seed @ one set for each group= Rs.6000X 5=Rs. 30,000/- C. Capacity building through training(Three nos of training to all 05 groups) Cost-150X45= Rs. 6,750/-
Total Cost	:	Rs. 86,750/-
Expected Outcome	:	Additional Income from the polyculture practices, Involvement of family members and economic upliftment of the farm family

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

Name of the Technology	:	Breed replacement by synthetic dual purpose free range improved poultry breeds
Problem	:	Low output of desi poultry birds due to lower growth rate and egg laying capacity
Intervention	:	Breeds such as RIR
Beneficiary	:	400nos.
No. of Units	:	40 groups
Unit Size	:	100 nos. birds to each group of ten members
Input requirement including the cost	:	21 days old chicks @ Rs. 70/- per chick for 4000 nos chicks(100 chicks/ groups)
Total Cost	:	Rs. 2,80, 000/-
Expected Outcome	:	Socio-economic development of tribal people through additional income generation activity by means of rearing improved poultry breeds having

	more output in terms of growth and egg laying capacity
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4. Demonstration of community based nursery raising by engaging migrant labourers for livelihood support

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