ANNUAL ACTION PLAN

2022-23

KVK, JAJPUR

OUAT, BHUBANESWAR

BASIC INFORMATION OF THE DISTRICT

1	Geographical area	2,89,900 ha
2	Gross cropped area	2,50,602 ha
3	Total cultivated area Upland Medium land Low land	1,45,450 ha 51754 ha (36%) 48036 ha (33%) 45660 ha (31%)
4	Net sown area	1,37,000 ha
	Fallow land	5000 ha
	Waste land	4000 ha
5	Total Paddy area	1,17,000 ha
6	Cropping intensity	170 %
7	Soil type	Alluvial soil, red laterite soil, saline soil
8	No of GP	331
9	No of village	1859
	Total population	1826000
	SC population	3,73513
	ST population	125989
10	No of Agriculture laboures	81,907
11	No of non Agriculturelaboures	2,45,421
12	Irrigation potential -Kharif - Rabi	 47% 27%
13	Fertilizer consumption -Kharif - Rabi - Average - Humidity - Temperature - Min - Max - Annual Rain fall - No. of rainy day - PH range	 111.2 kg/ha 56.86 kg/ha 84.03 kg/ha 62% -87 % 14 ^{0} C 43 ^{0} C 1559.9 mm 73.2 4 to 7.40

Summary of Action Plan, 2022-23

Name of Activities	Target	
	No.	Participants
OFT	12	84
FLD	25	325
Trainings		
Farmers and farmwomen	86	2150
Rural youth	12	180
Extension functionaries	12	180
Sponsored	5	150
Extension Activity		
Field Day	20	1000
Exhibition	3	235
Kisan Mela	2	426
Special day celebration	4	200

DETAILS OF ADOPTED VILLAGE

Village Name	Year of Adoption	Block Name	Distance from KVK	Numbers of farmers having land in the village
Choromuha	2015	Dharmasala	30	140
Sansailo	2017	Sukinda	60	500
Fazilpur	2020	Dharmasala	22	130
Kulakuransa	2021	Rasulpur	35	90
Kacherigaon	2021	Jajpur	60	160

Training programme 2022-23

(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.Crop production														
IWM	Integrated weed management in Jute	1	1	Off	June 2022	2	-	-	-	23	-	25	-	25
ICM	Nursery management for quality rice seedling production	1	1	Off	June, 2022	1	-	-	-	24	-	25	-	25
INM	INM in rice	1	1	Off	July, 2022	1	-	-	-	24	-	25	-	25
IWM	IWM in maize and sweetcorn	1	1	Off	July 2022	-	-	-	-	25	-	25	-	25
IWM	IWM in sugarcane	1	1	Off	Aug. 2022	2	1	-	-	22	-	24	1	25
ICM	Management of problematic soil for higher yield and sustainability	1	1	Off	Aug. 2022	-	-	-	-	25	-	25	-	25
ICM	Intercropping for higher yield and sustainability	1	1	Off	Sept. 2022	-	-	-	-	25	-	25	-	25
ICM	Integrated Farming system for livelihood security	1	1	Off	Sept. 2022	-	-	-	-	25	-	25	-	25
ICM	Improved jute harvesting and retting for quality fiber production	1	1	Off	Oct. 2022	-	-	-	-	25	-	25	-	25
ICM	Cultivation of stress tolerant rice varieties to mitigate climate change	1	1	Off	Oct. 2022	1	-	-	-	24	-	25	-	25
INM	INM in groundnut	1	1	Off	Nov, 2022	1	-	-	-	24	-	25	-	25
IWM	Integrated weed Management in sugarcane	1	1	Off	Nov. 2022	-	2	-	-	22	1	22	3	25

IWM	Integrated weed management in pulse crops (greengram,blackgram)	1	1	Off	Jan. 2023	2	1	-	-	22	-	24	1	25
INM	Integrated nutrient management in sunflower	1	1	Off	Feb. 2023	2	1	-	-	22	-	24	1	25
II. Soil Health and Fertility Management														
Soil fertility management	Technique of soil sample collection & fertilizer management	1	1	Off	June, 2022	2	1	-	-	22	-	24	1	25
INM	INM in maize	1	1	Off	Aug, 2022	2	1	-	-	22	-	24	1	25
INM	Nitrogen management in rice	1	1	Off	July. 2022	1	1	-	-	23	-	24	1	25
INM	Micronutrient deficiency in rice	1	1	Off	Sept. 2022	3	-	-	-	21	1	24	1	25
INM	Bio-fertilizer application in Vegetable	1	1	Off	Sept. 2022	1	-	-	-	23	1	24	1	25
Soil fertility management	Technique of soil sample collection & fertilizer management	1	1	Off	Oct. 2022	2	1	-	-	22	-	24	1	25
INM	INM in brinjal	1	1	Off	Oct. 2022	-	-	-	-	23	2	23	2	25
INM	INM in potato	1	1	Off	Nov. 2022	1	-	-	-	23	1	24	1	25
INM	Bio-fertilizer and their application in cole crops	1	1	Off	Nov. 2022	-	-	-	-	23	2	23	2	25
INM	INM in Okra	1	1	Off	Dec. 2022	-	-	-	-	20	5	20	5	25
Soil fertility management	Method lime application in groundnut	1	1	Off	Dec. 2022	1	-	-	-	23	1	24	1	25
Soil fertility management	Management of acid soil	1	1	Off	Dec. 2022	-	-	-	-	20	5	20	5	25
Soil fertility management	Waste decomposer for decomposting paddy straw	1	1	Off	Jan. 2023	-	-	-	-	20	5	20	5	25

INM	Foliar application of urea phosphate in greengram	1	1	Off	Feb. 2023	2	1	-	-	22	-	24	1	25
III. Plant Protection														
IDM	IDM practices for control of disease in rice	1	1	Off	June. 2022	5	-	-	-	20	-	25	-	25
IPM	Management of okra fruit borer	1	1	Off	July 2022	-	2	2	-	20	1	22	3	25
IPM	IPM on paddy pest	1	1	Off	July 2022	-	2	-	-	22	1	22	3	25
IPM	IPM of borer complex in sugarcane	1	1	Off	Aug. 2022	-	2	-	-	22	1	22	3	25
IDM	Management of red rot disease in sugarcane	1	1	Off	Aug. 2022	4	-	-	-	20	1	24	1	25
IPM	IPM in maize	1	1	Off	Aug. 2022	-	-	-	-	24	1	24	1	25
IDM	Major pest and disease of okra & brinjal	1	1	Off	Sept. 2022	1	-	-	-	24	-	25	-	25
IPM	IPM of brinjal fruit & shoot borer in brinjal	1	1	Off	Sept. 2022	2	1	-	-	22	-	24	1	25
IDM	IDM of groundnut diseases	1	1	Off	Oct. 2022	2	1	-	-	22	-	24	1	25
IPM	Management of foliage feeder in groundnut	1	1	Off	Nov. 2022	-	2	-	-	22	1	22	3	25
IDM	Management of thrips in chilli	1	1	Off	Nov. 2022	1	-	-	-	24	-	25	-	25
IPM	IPM of YVMV in greengram	1	1	Off	Dec. 2022	-	-	-	-	25	-	25	-	25
IDM	IDM in bittergourd	1	1	Off	Dec. 2022	2	1	-	-	22	-	24	1	25
IDM	management of pod borer in greengram	1	1	Off	Jan. 2023	-	-	-	-	25	-	25	-	25
IPM	Management of white fly	1	1	Off	Feb. 2023	-	-	-	-	25	-	25	-	25
IV. Horticulture														
Vegetable cultivation	Major diseases & pest of brinjal, okra&their control measures	1	1	Off	June, 2022	1	2	-	-	22	-	23	2	25
Post harvest technology	Sorting, grading & packaging of vegetable	1	1	Off	July, 2022	-	2		-	22	1	22	3	25

INM	Profitable papaya Cultivation techniques	1	1	Off	July. 2022	5	-	-	-	20	-	25	-	25
INM	INM in colocasia	1	1	Off	Aug. 2022	-	2	2	-	20	1	22	3	25
Yield increment	Micro nutrient application for increasing yield & quality of fingers	1	1	Off	Aug. 2022	-	2	-	-	22	1	22	3	25
INM	INM practices in tube rose & marigold	1	1	Off	Aug. 2022	-	-	-	-	24	1	24	1	25
Vegetable cultivation	cultivation techniques of potato	1	1	Off	Sept. 2022	-	-	-	-	24	1	24	1	25
Vegetable cultivation	Cultivation techniques of T.C Banana for higher income	1	1	Off	Aug. 2022	-	2	2	-	20	1	22	3	25
Production and management technology	Production techniques of marigold& rose	1	1	Off	Aug. 2022	-	2	-	-	22	1	22	3	25
INM	Important medicinal plants and their uses	1	1	Off	Sept. 2022	4	-	-	-	20	1	24	1	25
INM	INM in cauliflower for increasing yield and quality	1	1	Off	Oct. 2022	1	2	1	1	20	-	22	3	25
Production and management technology	Improved management practices in capsicum	1	1	Off	Nov. 2022	3	1	-	-	18	3	21	4	25
Vegetable cultivation	Cultivation techniques of root crops	1	1	Off	Dec. 2022	-	-	-	-	24	1	24	1	25
Production and management technology	Different trellis system in cucurbits	1	1	Off	Jan. 2023	3	1	-	-	18	3	21	4	25
Yield increment	pointed gourd cultivation for higher income	1	1	Off	Feb. 2023	3	1	-	-	18	3	21	4	25
IFS	Vegetable based Integrated farming system for increasing income	1	1	Off	Feb. 2023	3	2	2	1	12	5	17	8	25

Yield increment	Important medicinal plants and their uses	1	1	Off	Mar. 2023	3	1	-	-	18	3	21	4	25
Yield increment	Scientific cultivation techniques of betelvine	1	1	Off	Mar. 2023	4	-	-	-	20	1	24	1	25
V. Agril.engg.														
Repair and maintenanc e of farm machinery & implements	Use of mechanical weeder in rice	1	1	Off	June. 2022	-	-	-	-	25	-	25	-	25
Repair and maintenance of farm machinery & implements	use of different rice transplanter	1	1	Off	July, 2022	-	-	-	-	21	4	21	4	25
Repair and maintenance of farm machinery & implements	Care and safety measure during operation of implements	1	1	Off	July, 2022	-	2	-	-		23	-	25	25
Installation and maintenance of micro irrigation system	Small implements for farm women	1	1	Off	Aug, 2022	-	-	-	-	21	4	21	4	25
Installation and maintenance of micro irrigation system	Utility of micro irrigation	1	1	Off	Aug, 2022	1	1	-	-	23	-	24	1	25
Post harvest technology	Utility of pulse thresher	1	1	Off	Sept, 2022	2	-	1	-	20	2	23	2	25
Repair and maintenanc e of farm mechinery & implements	Different line sowing implements for cereal and pulses	1	1	Off	Sept, 2022	-	2	-	-		23	-	25	25
Installation and maintenance of micro	Use of sprinkler irrigation in pulse	1	1	Off	Oct, 2022	-	-	-	-	21	4	21	4	25

irrigation system														
Installation and maintenance of micro irrigation system	Use of dal mill	1	1	Off	Nov, 2022	-	2	-	-		23	-	25	25
Repair and maintenance of farm machinery & implements	use of different groundnut harvesting machinaries	1	1	Off	Nov, 2022	2	-	1	-	20	2	23	2	25
Installation and maintenance of micro irrigation system	Use of mulching in vegetable	1	1	Off	Dec, 2022	-	-	-	-	20	5	20	5	25
Value addition	Value addition of tomato	1	1	Off	Jan, 2023	-	2	-	-		23	-	25	25
Value addition	Value addition of oyster mushroom	1	1	Off	Jan, 2023	1	1	-	-	23	-	24	1	25
Installation and maintenance of micro irrigation system	Utility of solar dryer	1	1	Off	Feb, 2023	-	-	-	-	21	4	21	4	25
VI. Agril. Extn.														
CBD	Formation and management of farmers producer group	1	1	Off	Jun, 2022	5	-	-	-	20	-	25	-	25
CBD	Management of SHGs	1	1	Off	July, 2022	3	-	-	-	22	-	25	-	25
CBD	Organic farming and its role in sustainable development	1	1	Off	July, 2022	2	-	-	-	23	-	25	-	25
CBD	Climate resilient technology for sustainable development	1	1	Off	Aug, 2022	1	-	-	-	24	-	25	-	25
CBD	Income generation activities of SHGs	1	1	Off	Aug, 2022	3	-	-	-	22	-	25	-	25

CBD	Alternative livelihood options for resource poor farm family	1	1	Off	Sept, 2022	5	-	-	-	20	-	25	-	25
CBD	Role and importance of ITKs in agricultural development	1	1	Off	Sept, 2022	5	-	-	-	20	-	25	-	25
CBD	Role and importance of ICT in agricultural development	1	1	Off	Oct, 2022	3	-	-	-	22	-	25	-	25
CBD	Alternative livelihood options for resource poor farm family	1	1	Off	Oct, 2022	3	-	-	-	22	-	25	-	25
CBD	Role and importance of farm records in agricultural development	1	1	Off	Nov, 2022	5	-	-	-	20	-	25	-	25
CBD	Role and importance of ICT in agricultural development	1	1	Off	Nov, 2022	4	-	-	-	21	-	25	-	25
Production technology	Scientific cultivation of groundnut	1	1	Off	Dec, 2022	5	-	-	-	20	-	25	-	25
Production technology	Scientific cultivation of greengram	1	1	Off	Jan, 2023	3	-	-	-	22	-	25	-	25
CBD	Formation and management of farmers producer group	1	1	Off	Feb, 2023	5	-	-	-	20	-	25	-	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**
I.Crop production														
ICM	Integrated Farming System for Livelihood security	1	2	On	Dec. 2022	2	-	-	-	13	-	15	-	15

ICM	Seed production for higher income	1	2	On	Feb. 2022	-	-	-	-	15	-	15	-	15
II. Soil Sc														
ICM	Azolla production technique	1	2	On	Sept, 2022	3	2	-	-	8	2	11	4	15
Soil fertility management	Method of vermicomposting	1	2	On	Oct, 2022	1	1	-	-	13	-	14	1	15
III.Plant Protection														
IPM	Production of botanical pesticide	1	2	On	Sept. 2022	3	2	-	-	8	2	11	4	15
IPM	Beekeeping for enhancing rural income	1	2	On	Feb. 2023	2	2	-	-	5	6	7	8	15
IV.Horticulture														
Nursery raising	Improved method of seedling production technique	1	2	On	Sept. 2022	-	3	-	-	6	6	6	9	15
Cultivation of flower	Commercial flower cultivation	1	2	On	Dec. 2022	2	2	-	-	5	6	7	8	15
V. Agril. Engg.														
Installation and maintenance of micro irrigation system	Installation of drip irrigation system	1	2	On	Dec. 2022	-	-	-	-	12	3	12	3	15
Value addition	Value addition of tomato	1	2	On	Jan. 2023	-	4	-	-	-	11	-	15	15
VI.Agril.Extn.														
CBD	Entrepreneurship development	1	2	On	Dec. 2022	2	-	-	-	13	-	15	-	15
CBD	Farming system approach	1	2	On	Feb. 2023	2	-	-	-	13	-	15	-	15

(c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
I.Crop production														
ICM	Organic farming for sustainable crop production	1	1	On	Nov. 2022	-	4	-	-	-	11	-	15	15
ICM	Contingency planning for crop production under changing climate	1	1	On	Jan. 2023	1	1	-	-	13	-	14	1	15
II.Soil Sc.														
Soil fertility management	Use of soil test kit (Mridaparikhyak)	1	1	On	Nov. 2022	-	3	-	-	6	7	9	6	15
Soil fertility management	Management of problematic soil	1	1	On	Feb. 2023	2	2	-	-	5	6	7	8	15
III. Plant Protection														
IPDM	Safe use of pesticide	1	1	On	Oct. 2022	1	1	-	-	13	-	14	1	15
IPDM	Application of new generation pesticide	1	1	On	Dec. 2022	-	3	-	-	6	7	9	6	15
IV.Horticulture														
IFS	Integrated Farming system for increasing income farmer	1	1	On	Nov. 2022	-	3	-	-	6	6	6	9	15
Protected cultivation	Cultivation techniques of vegetables in green house	1	1	On	Jan. 2023	2	-	-	-	8	5	10	5	15

V. Agril.Engg.														
Installation and maintenance of micro irrigation system	Importance of micro irrigation in Agriculture	1	1	On	Oct. 2022	-	-	-	-	12	3	12	3	15
Repair and maintenance of farm machinery& implements	Use of improved machinery in Agriculture	1	1	On	Feb. 2023	-	4	-	-	-	11	-	15	15
VI. Agril. Extn.														
CBD	Market led extension	1	1	On	Nov, 2022	2	-	-	-	11	2	13	2	15
CBD	Cyber extension	1	1	On	Jan, 2023	2	-	-	-	11	2	13	2	15

On-Farm Testing 2022-23

OFT No. 1	Assessment of INM in scented rice				
Season & Year	*Kharif,*2022	No. of Trials & village		07 and Choromuha, Sansilo	
Crop / commodity	Scented rice	Farming Situation	Irrigated Medium land Rice-Vegetable		
Problem diagnosed	Low yield due to Improper nutrient management in scented rice	Severity of Problem	Spread	1500 ha	
			Intensity	40-50%	
Trials	Technology	Details of Technology with Characteristics			
FP	Use of low dose of fertilizer (40-30-20 kg NPK/ha +FYM 1 t/ha)				
TO1	*INM*	Recommended dose of fertilizer (60-30-30 kg NPK/ha + FYM 2.5 t/ha + Zn 5kg/ha+ S 20kg/ha)			Source: RRTTS, BahawanipatnaOUAT 2015
TO2	*INM*	Recommended dose of fertilizer (75-30-20 kg NPK/ha + FYM 5 t/ha + Zn 5kg/ha+ S 20kg/ha + Azospirrilum 5kg/ha + PSM 5kg/ha)			RRTTS, BahawanipatnaOUAT 2017
Observation Parameters	Plant ht. (cm), days to 50% flowering, No of tillers/$m^{2,}$ Panicle Length (cm), No of Grains/panicle.Test wt(g)		Performance Indicator	Yield, B:C ratio	
Associated Scientist(s)	Dr. Lalita Kumar Mohanty, Scientist (Agronomy)				

OFT No. 2	Assessment of Sulphur management in greengram				
Season & Year	*Rabi,*2022-23	No. of Trials & village	07 and Fazilpur, Khadipada		
Crop / commodity	Greengram	Farming Situation	Rainfed Medium land Rice-Pulse		
Problem diagnosed	Low yield due to poor plant growth and pod filling .	Severity of Problem	Spread	18000 ha	
			Intensity	40-50%	
Trials	Technology	Details of Technology with Characteristics			
FP	Use of low dose of fertilizer (20-20-0 kg NPK/ha)				
TO1	*Micro nutrient management*	Recommended dose of fertilizer (20-40-20 kg NPK/ha) + FYM 5 t/ha + sulphur 30 kg/ha (through elemental Sulphur-Bentonite sulphur 90%)			Source: OUAT 2016-17, Annual report
					BCKV 2012
TO2	*Micro nutrient management*	Recommended dose of fertilizer (20-40-20kg NPK/ha) + FYM 5 t/ha + S 30kg/ha (through Phospo gypsum)			

Observation Parameters	Plant ht. (cm), no. of branches /plant, No of pods/plant, test wt.	Performance Indicator	Yield, B:C ratio
Associated Scientist(s)	Dr. Lalita Kumar Mohanty, Scientist (Agronomy)		

OFT No. 3	Assessment of Arka vegetable special (Micronutrient technology for higher yield & quality in cauliflower)				
Season & Year	*Rabi* , 2022-23	No. of Trials & village	7, Haripur, Bahabalapur		
Crop / commodity	Cauliflower	Farming Situation	Irrigated Mediumland		
Problem diagnosed	Low curd weight and curd size	Severity of Problem	Spread	400 ha	
			Intensity	52%	
Trials	Technology	Details of Technology with Characteristics			
FP	NPK @120:50:50 kg/ha +Foliar application of micronutrient (3ml./lit) at 30 DAT				
TO1	*INM*	STBF + application of Nutrivate Arka vegetable special @5g/lit. first spray 25-30 days after planting second spray 25 days after first spray.			Source: IIHR, Banglore 2016
TO2	*INM*	STBF +application of Nutrivate Arka vegetable special + Soil application with 5 kg Arka Microbial consortium mixed with 500kg FYM/ha			IIHR, Banglore 2016
Observation Parameters	Size of curd, curd weight, shelf life of curd		Performance Indicator		Yield, B:C ratio
Associated Scientist(s)	Dr. Babita Mishra, Scientist (Horticulture)				

OFT No. 4	Assessment of INM in Tube rose			
Season & Year	*Kharif,*2022	No. of Trials & village	7, sabo, Karanjiari	
Crop / commodity	Tube rose	Farming Situation	Irrigated upland/ Mediumland	
Problem diagnosed	Less profit due to low yield and quality	Severity of Problem	Spread	15 ha
			Intensity	70%
Trials	Technology	Details of Technology with Characteristics		
FP	Tube rose cultivation with NPK @80:40:50 kg/ha application @ without organic fertilizer application			
TO1	*Calcutta double*	Application of 75% N (Urea) + 25% N (Mustrad oil cake)		

TO2	*Calcutta double*	STBF with application of vermicompost @ 1kg/m2 + karaj oil cake @ 250g/m2	Source: OUAT 2017-18, Annual report OUAT 2016-17, Annual report
Observation Parameters	Plant height , leaves/plant, spike length, no. of florets/spike, floret length, spike/plant, floret width, flower yield, bloom life & shelf life	Performance Indicator	Yield, B:C ratio
Associated Scientist(s)	Dr. Babita Mishra, Scientist (Horticulture)		

OFT No. 5	Assessment of nano urea liquid fertilizer in transplanted rice			
Season & Year	Kharif 2022	No. of Trials & village	7 (Achyutpur)	
Crop / commodity	Rice	Farming Situation	Irrigated medium land	
Problem diagnosed	Low yield due to Improper use of urea fertilizer .	Severity of Problem	Spread	120000 ha
			Intensity	50%
Trials	Technology	Details of Technology with Characteristics		
FP	100 % N (as conventional urea application), P and K			
TO1	*INM*	50 % recommended N + 100 % P and K as basal application and two sprays Nano urea @ 0.2 % tillering and PI stage		Source: IFFCO 2020
TO2	*INM*	75 % recommended N + 100 % P and K as basal application and two sprays Nano urea @ 0.2% at tillering and PI stage		Source: IFFCO 2020
Observation Parameters	Initial and post harvest soil test value No. of effective tillers /sq m, No. of filled grain per panicle, 1000 grain weight (gm)	Performance Indicator		Yield, B:C ratio
Associated Scientist(s)	Mr. Subhasis Dash, Scientist (Soil Sc.)			

OFT No. 6	Assessment of Consortia of micro organism(Azotobacter,Azospirillium & PSB) in Pointedgourd.				
Season & Year	Rabi, 2022-23 (Year-II)		No. of Trials & village	7 (Balichandrapur)	
Crop / commodity	Pointed gourd		Farming Situation	Irrigated Mediumland	
Problem diagnosed	Low yield,poor plant growth due to low beneficial microbial population		Severity of Problem	Spread	250 ha
				Intensity	60%
Trials	Technology		Details of Technology with Characteristics		
FP	N:P:K (100:50:60) Kg/ha				
TO1	*INM*	STBF(120:80:80) + 100 kg of FYM inoculated with 4 kg Azotobacter,Azosprillium,& PSB each.		Source: SLREC Proceedings ,OUAT.2015	
TO2	*INM*	STBF + 5 kg lime mixed with 100 kg of FYM & inoculated with 4 kg Azotobacter,Azospirilium & PSB each.		SLREC Proceedings ,OUAT.2015	
Observation Parameters	Length of Vine,Vine girth,No of branches/plant,Length of fruit,Single fruit weight.		Performance Indicator	Yield, B:C ratio	
Associated Scientist(s)	Mr. Subhasis Dash, Scientist (Soil Sc.)				

OFT No. 7	Assessment of integrated disease management against wilting in Brinjal				
Season & Year	*Rabi*-2022-23		No. of Trials & village	07, Karanjiari, Odiso, Kulakuransa	
Crop / commodity	Brinjal		Farming Situation	Irrigated Medium land	
Problem diagnosed	Low yield due to heavy wilting incidence		Severity of Problem	Spread	2000ha(4500ha)
				Intensity	65%
Trials	Technology		Details of Technology with Characteristics		
FP	Application of Carbendazim and Mancozeb @2gm/lit				
TO1	Integrated disease management	Seed treatment with (Metalaxyl + Mancozeb) @ 2gm/kg + Soil application of Carbofuran 1kg a.i./ha in the main field+ soil drenching of		Source: OUAT -2019-20, Annual report	

	against wilting in Brinjal	Carbendazim @ 0.15@%+ Streptocycline @0.015% at 30 and 45 days after transplanting.	OUAT -2019-20, Annual report
TO2	Integrated disease management against wilting in Brinjal	Application of 1 ton /ha of FYM enriched with Biofer Pf-2 consortium of T .viridae and P .floroscence	
Observation Parameters	wilting incidence %, Plant growth, no of fruits /plant ,	Performance Indicator	Yield, B:C ratio
Associated Scientist(s)	B.K RautarayScientist (PP) & B. Mishra(Scientist (Hort)		

OFT No. 8	Assessment of IPM modules for the management of Fall Army Worm *(Spodoptera frugiperda)* and other major insect pest of maize.			
Season & Year	*Kharif,*2022	No. of Trials & village	07, Sansilo	
Crop	Maize	Farming Situation	Rainfed Medium land	
Problem diagnosed	Low yield due to Heavy incidence of FAW	Severity of Problem	Spread	1000ha
			Intensity	55%
Trials	Technology	Details of Technology with Characteristics		
FP	Application of Chlo + Cyper @ 2ml/lit			
TO1	IPM modules for the management of Fall Army Worm *(Spodoptera frugiperda)*.	Seed treatment with (cyzapyr + thiamethoxam) @ 6 ml/ kg seed + Spraying of tetraniliprole @ 200 ml/ ha at 30 DAS+ Whorl application of Poison baits (10 kg rice bran + 2 kg jiggery+ 2 l of water+ 100 g thiodicarb) at 45 DAS + bird perches up to 45 DAS		Source: RRTTS, Ranital -21-22 ,NCIPM-2020
TO2	IPM modules for the management of Fall Army Worm *(Spodoptera frugiperda)*.	Installation of pheromone trap Spray of Azadirachtin 1500 ppm @ 5ml/lit at 10 days after planting Spray of *Bacillus thuringiensis (Bt)* (2.5kg/ha) ,Release of *Trichogramma chilonis* @ 1.0 lakh/ha Need based application of *CHLORANTRANILIPROLE 18.5% SC @ 200ml/ha.*		
Observation Parameters	No of larvae /plant, %age of damage whorl, yield Kg/ha	Performance Indicator	Yield, B:C ratio	
Associated Scientist(s)	B.K RautarayScientist (PP) & B. Mishra(Scientist (Hort)			

OFT No. 9	Assessment of sprinkler irrigation for higher yield in greengram				
Season & Year	*Rabi*2022-23	No. of Trials & village	7, Arakhpur, Bahabalapur		
Crop / commodity	Greengram	Farming Situation	Irrigated Medium land		
Problem diagnosed	No supplemental irrigation leads to low yield	Severity of Problem	Spread	15000 ha	
			Intensity	40-50%	
Trials	Technology	Details of Technology with Characteristics			
FP	No irrigation				
TO1	*Micro irrigation*	Sprinkler irrigation once at Pre- flowering stage		Source: IIWM, BBSR, 2017-18	
TO2	*Micro irrigation*	Sprinkler irrigation once at Pre-flowering stage and once at pod formation		Source: IIWM, BBSR, 2017-18	
Observation Parameters	Cost of irrigation (Rs/ha), plant height, no. of pods /plant,	Performance Indicator	Yield, B:C ratio		
Associated Scientist(s)	Dr. Bijayalaxmi Mohanta, Scientist (Agril. Engg.)				

OFT No. 10	Assessment of different bullock drawn seed-cum- fertilizer drills for sowing of maize				
Season & Year	*Kharif,*2022	No. of Trials & village	7, Hudisahi, Sansilo		
Crop / commodity	Maize	Farming Situation	Rainfed Medium land		
Problem diagnosed	High labour cost for sowing of maize behind the plough	Severity of Problem	Spread	1200 ha	
			Intensity	40-50%	
Trials	Technology	Details of Technology with Characteristics			
FP	Sowing behind the plough				
TO1	*Farm mechanization*	Bullock drawn single- row- seed cum fertilizer drill		Source: AICRP on UAE, CAET, OUAT 2014	
TO2	*Farm mechanization*	Bullock drawn three -row seed- cum fertilizer drill			
				AICRP on UAE, CAET, OUAT 2014	
Observation Parameters	Plant population (nos/sqm), No of cobs/plant, cob weight(g.), labour saving (mandays/ha), cost saving (Rs./ha)		Performance Indicator	Yield, B:C ratio	
Associated Scientist(s)	Dr. Bijayalaxmi Mohanta, Scientist (Agril. Engg.)				

<table>
<tr><td>OFT No. 11</td><td colspan="4">Assessment of the performance of FPOs with varied levels of task and commodity to enhance net return</td></tr>
<tr><td>Season & Year</td><td>Karif/Rabi/Zaid-Summer 2022</td><td>No. of FPO</td><td colspan="2">N=02and 40 farmers (sample size 20 in each category)</td></tr>
<tr><td>Crop / commodity</td><td>Crops, Pulses, Vegetable, Fruits and Enterprises</td><td>Farming Situation</td><td colspan="2">Vegetable-vegetable-vegetable (Irrigated)
Rice-pulses (Rainfed)</td></tr>
<tr><td>Problem</td><td colspan="2">Unorganized farmers fetching low price due to distress sale of farm produce</td><td>Spread & Intensity of problem</td><td></td></tr>
<tr><td>FP</td><td colspan="4">Farmers marketing their produce through intermediaries</td></tr>
<tr><td>TO_1</td><td colspan="3">FPO dealing with a single commodity with a single task i.e., Vegetable/ Pulse/ or any other commodity -Marketing</td><td></td></tr>
<tr><td>TO_2</td><td colspan="3">FPO dealing with multi-commodity with multi-task i.e., Pulses, Crops Vegetable, Enterprises- sorting, grading, packing, value addition, branding, leveling and marketing</td><td></td></tr>
<tr><td>Characteristics of technology</td><td colspan="4">FP: Farmers marketing their produce through intermediaries- Middle Man, Local Traders, Out Side Traders
TO1: Farmers dealing with a single commodity through collective marketing with a single/number of agencies
TO2: Farmers dealing with multi-components like pulse/vegetables/enterprises with multi-tasks like sorting, grading, packing and marketing</td></tr>
<tr><td>Observation Parameters</td><td colspan="2">• Easy to produce (Score out of 10)
• Easy to sell (Score out of 10)
• Farmers interest to become a member (Score out of 10)
• Business planning and market linkage with various national and international companies (Score out of 10)
• Share capital contributed (Score out of 10)</td><td>Performance Indicator</td><td>• 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</td></tr>
<tr><td>Farmers feedback</td><td colspan="2"></td><td></td><td></td></tr>
<tr><td colspan="2">Scientist(s) to be involved</td><td colspan="3">Mr. Subrata Kumar Panigrahi, Scientist (Agril. Extn.)</td></tr>
</table>

OFT No. 12	Impact assessment of Cluster Frontline Demonstration programme		
Season & Year	Rabi 2022-23	No. of trial	N=30
Crop / commodity	Greengram/groundnut	Farming Situation	Irrigated/Rainfed, Medium land/ Upland
FP	Technology available with farmers		
TO_1	Technology provided under CFLD through Krishi Vigyan Kendra		
TO_2	Technology provided by Cluster programme of Agriculture dept.		
Characteristics of technology	TO1: Disribute seed, micro nutrient, seed treatment chemical, pesticides and organizing field days at different stages of crop growth and covering at least 10 ha to maximum 30 ha area TO2: Distribute seed and providing money for other critical inputs, one field day at the time of harvesting of crop and covering at least 50 ha to maximum 1000 ha area		
Observation Parameters	• Availability of technology, applicability of technology, accessibility of technology, • Crop growth parameters	Performance Indicator	• Change in knowledge, change in skill, change in perception, change in yield, change in rate of adoption, Profit gain, B:C ratio
Scientist(s) to be involved	Mr. Subrata Kumar Panigrahi, Scientist (Agril. Extn.)		

Frontline Demonstration

FLD No. 1	Demonstration on Integrated Weed Management in Maize		
Season & Year	Kharif, 2022	No. of Trials & village	13, Sansilo
Crop / commodity	Maize	Farming Situation	Rainfed, Medium Land Maize-vegatable
Problem diagnosed	Low yield due to heavy weed infestation	Spread	1200 ha
		intensity	30-40 %
FP	Weeding through earthing up at 15 DAS + use of herbicide 2-4-D @500g/ha at 30 DAS		
Demo	Weeding through earthing up at 15 DAS +use of herbicide Tembotrione 42% SC @287.5 ml/ha at 20 DAS		Source- OUAT, Annual Report 2016
Observation Parameters	Weed flora count,WCE (%), No of cobs/plant, cob weight(g.)	Performance Indicator	Yield & B:C ratio
Associated Scientist(s)	Dr. Lalita Ku. Mohanty, Scientist (Agronomy)		

FLD No. 2	Demonstration on IWM for managing weeds during kharif in direct seeded rice		
Season & Year	Kharif, 2022	No. of Trials & village	13, Kulakuransa
Crop / commodity	Rice	Farming Situation	Rainfed MediumLand Rice-groundnut
Problem diagnosed	Low yield due to high incidence of weed and more labour requirement for weeding	Spread	20000 ha
		intensity	30-40 %
FP	Manual weeding at 30 DAS		
Demo	Use of herbicide Pyrazo sulphuron ethyl 200g/ha at 3 DAS fb Bispyribac Sodium 200 ml at 25 DAS in rainfed direct seeded rice		Source- OUAT, Annual report, 2016
Observation Parameters	No of tillers/hill, EBT/sq.m ,No of grains /panicle, weed count.WCE (%)	Performance Indicator	Yield & Economics
Associated Scientist(s)	Dr. Lalita Ku. Mohanty, Scientist (Agronomy)		

FLD No. 3	Demonstration on IWM in greengram		
Season & Year	Rabi 2022-23	No. of Trials & village	13, Choromuha
Crop / commodity	Greengram	Farming Situation	Rainfed MediumLand Rice-greengram
Problem diagnosed	Heavy weed infestation in greengram	Spread	18000 ha
		intensity	30-40 %
FP	No weeding		
Demo	Application of herbicide imazethapyr @750 ml/ha at 15 DAS.		Source- OUAT, Annual report, 2016
Observation Parameters	Plant ht, , pod length, no of pods/plant, WCE, Yield	Performance Indicator	Yield & Economics
Associated Scientist(s)	Dr. Lalita Kumar Mohanty, Scientist (Agronomy)		

FLD No. 4	Demonstration on Integrated Nutrient Management in sugarcane for higher yield and profitability		
Season & Year	Rabi, 2022-23	No. of Trials & village	13, Fazilpur
Crop / commodity	Sugarcane	Farming Situation	Rainfed MediumLand Sugarcne-Sugarcane
Problem diagnosed	Low yield due to low dose of fertilizer application	Spread	1500 ha
		Intensity	30-40 %
FP	Improper dose of chemical fertilizer(130-40-40 NPK kg/ha) and no use of biofertiliser		
Demo	Soil test based fertilizer application in sugarcane @ 315:100:60 kg N:P2O5:K20+60 kg elemental S/ha recorded highest cane yield of 81.44 t/ha and was most remunerative		Source- OUAT, Annual report, 2016
Observation Parameters	Cane length, cane wt	Performance Indicator	Yield & Economics
Associated Scientist(s)	Dr. Lalita Ku. Mohanty, Scientist (Agronomy)		

FLD No. 5	Demonstration on potato variety Kufri Khyati		
Season & Year	Rabi 2022-23	No. of Trials & village	13, Karanjiari, Bahabalapur
Crop / commodity	Potato	Farming Situation	Irrigated medium/upland
Problem diagnosed	Low yield due to late planting and temperature fluctuation during tuberization	Spread	400 ha
		intensity	50 %
FP	Kufri Jyoti		
Demo	Kufri Khyati (High yielding, early maturing, tubers are ovoid, creamish, white with medium deep eyes, Avg. yield- 250-300 qtl/ha, duration 70-75 days). Tolerate temperature upto 25 to 28^0 C	Source-CPRI, Simla, 2011	
Observation Parameters	No. of tubers/plant, individual tuber wt., diameter of tuber	Performance Indicator	Yield & Economics
Associated Scientist(s)	Dr. Babita Mishra, Scientist (Horticulture)		

FLD No. 6	Demonstration of Lean to Type trellis in bittergourd for higher production		
Season & Year	Rabi 2022-23	No. of Trials & village	13, Haripur, Arkhpur
Crop / commodity	Bitter gourd	Farming Situation	Irrigated upland/medium land
Problem diagnosed	High incidence of fruit rot due to ground trelling	Spread	200 ha
		intensity	60 %
FP	Ground trelling		
Demo	Lean to type trellis – stakes are joined between two adjoining bed forming an A shaped structure horizontal stakes are installed at the top joining of all other beds . The stakes support the climbing vines. Strings are used to secure adjoining stakes. trellis height 2m		Source-CHES, BBSR, 2014
Observation Parameters	Length of fruit, Wt. of fruit, incidence of fruit rot	Performance Indicator	Yield & Economics
Associated Scientist(s)	Dr. Babita Mishra, Scientist (Horticulture)		

FLD No. 7	Demonstration on capsicum variety Arka Athulya		
Season & Year	Rabi 2022-23	No. of Trials & village	13, Sabo, Karanjiari, Haripur
Crop / commodity	Capsicum	Farming Situation	Irrigated upland/medium land
Problem diagnosed		Spread	15 ha

	Low yield & profit due to improper varietal selection	intensity	50 %
FP	Cultivation of capsicum variety		
Demo	Cultivation of capsicum variety Arka Athulya with recommended package of practices		Source- IIHR, Banglore, 2014
Observation Parameters	Plant height, no. of branches, no. of fruits/plant, fruit weight	Performance Indicator	Yield & Economics
Associated Scientist(s)	Dr. Babita Mishra, Scientist (Horticulture)		

FLD No. 8	Demonstration on Arka Banana special on yield and quality of fingers		
Season & Year	Kharif, 2022	No. of Trials & village	13, Barchana
Crop / commodity	Banana	Farming Situation	Irrigated up land/medium land
Problem diagnosed	Low yield in banana due to low bunch weight, less finger size and weight	Spread	200 ha
		intensity	40 %
FP	Imbalanced fertilizer application without micronutrient		
Demo	STBF + foliar spray from 4-5 months of planting at monthly interval on whole plant till bunch formation and there after two sprays on whole bunch with 75gm of Arka banana special in 15 litre of water (12 kg/acre)		Source- IIHR Banglore 2016
Observation Parameters	Bunch wt., finger size, finger wt, plant height, no. of leaves/plant	,Performance Indicator	Yield & Economics
Associated Scientist(s)	Dr. Babita Mishra, Scientist (Horticulture)		

FLD No. 9	Demonstration on Boron application in Rice		
Season & Year	Kharif 2022	No. of Trials & village	13, Achyutpur, Niladeipur
Crop / commodity	Rice	Farming Situation	Irrigated medium land
Problem diagnosed	Low yield due to more chaffy grain & low panicle weight.	Spread	40,000 ha
		intensity	44%
FP	Use NPK 70:40:40 Kg/ha without Boron application		
Demo	STBF NPK + Foliar spray of 0.25% Borax at PI & preflowering stage		Source-AICRP on Micronutrient -2016, OUAT, BBSR

Observation Parameters	No of tiller/m^2, no of filled grains/panicle. sterility%	Performance Indicator	Yield & Economics
Associated Scientist(s)	Mr. Subhasis Dash, Scientist (Soil Sc.)		

FLD No. 10	Demonstration on INM in maize under irrigated medium land situation		
Season & Year	Kharif 2022	No. of Trials & village	13, Hudisahi, Sansilo
Crop / commodity	Maize	Farming Situation	Irrigated Medium Land
Problem diagnosed	Poor plant growth and low cob weight due to low dose of fertiliser	Spread	900 ha
		intensity	40%
FP	Lower dose of chemical fertilizer 70:30:30 NPK kg/ha		
Demo	Application of N:P:K:B:Zn @ 150:75:60:1:5 kg/ ha + Lime 0.1 LR + FYM @ 5 t ha		Source- RRTSS, Bhawanipatna,OUAT, 2017-18
Observation Parameters	Plant height,cob length and weight, Grain wt.	Performance Indicator	Yield & Economics
Associated Scientist(s)	Mr. Subhasis Dash, Scientist (Soil Sc.)		

FLD No. 11	Demonstration on foliar application of urea phosphate in greengram.			
Season & Year	Rabi 2022-23	No. of Trials & village	13, Niladeipur, choromuha	
Crop / commodity	Greengram	Farming Situation	Irrigated MediumLand	
Problem diagnosed	Poor branching & low pod setting.	Spread	15235 ha	
		intensity	65%	
FP	Only basal (15:30:15)NPK kg/ha& no foliar application			
Demo	75% N + 75% P & full dose of K + foliar spray of 2% Urea phosphate at 20 &35 DAS		Source- RRTTSS Coastal Zone-2017	
Observation Parameters	No of branch/plant,No of pods/plant,No of grains/pod		Performance Indicator	Yield & Economics
Associated Scientist(s)	Mr. Subhasis Dash, Scientist (Soil Sc.)			

FLD No. 12	Demonstration on Integrated Nutrient Management in Brinjal		
Season & Year	Rabi 2022-23	No. of Trials & village	13, Bahabalapur, Karanjiari
Crop / commodity	Brinjal	Farming Situation	Irrigated MediumLand
Problem diagnosed	Poor plant growth & fruit setting.	Spread	2713 ha
		intensity	32%
FP	Improper dose of chemical fertilizer and no use of biofertiliser		
Demo	Application of 75% of STBF N + Azotobacter @4 kg/ha + Azospirillium @ 4 kg/ha + Full P & K.		Source- AINP, Biofertilizer-2016-17, OUAT

Observation Parameters	No of fruit/plant, Fruit weight(gm)	Performance Indicator	Yield & Economics
Associated Scientist(s)	Mr. Subhasis Dash, Scientist (Soil Sc.)		

FLD No. 13	Demonstration of integrated management of YVMV in Greengram			
Season & Year	Rabi-2022	No. of Trials & village	13, Niladeipur, Mangarajpur	
Crop / commodity	Green gram	Farming Situation	Rainfed Medium Land	
Problem diagnosed	Low yield due to Heavy incidence of YVMV	Spread	20,000ha	
		intensity	55%	
FP	Spraying of thiomethoxam @0.4g/lit			
Demo	Seed treatment with Imidacloprid 600 FS @ 5 ml / kg seed + Yellow sticky trap @ 50/ha + Neem oil 1500ppm @3ml/lit spray on appearance of white fly on YST + Spraying of Diafenthiuron 50 WP @ 600gm./ha		Source- RRTTS,Ranital OUAT, BBSR,20-21	
Observation Parameters	No of infected leaves /plant, No of white fly /Leaf, %age YVMV	Performance Indicator	Yield & Economics	
Associated Scientist(s)	B K Rautaray(Scientist PP) & L K Mohanty Scientist (Agronomy)			

FLD No. 14	Demonstration on management strategies against the little leaf disease in Bitter gourd			
Season & Year	Rabi 2022	No. of Trials & village	13, Haripur, Arakhpur	
Crop / commodity	Bittergourd	Farming Situation	Rainfed MediumLand	
Problem diagnosed	Low yield due to heavy incidence of little leaf disease in bitter gourd	Spread	500ha	
		intensity	65%	
FP	Spraying of Imidacloprid 17.8SL @ 0.5ml/Lit of water			
Demo	Seed treatment with Imidacloprid 600 FS @ 5 ml/ kg seed. + Soil application of Rynaxypyr 0.4 G @ 10 kg/ ha at 30 DAS + Yellow Sticky Trap at 2-3 leaf stage+ Alternate need based application of Flonicamid 50 WG @ 150 g/ ha and neem oil formulations (1500 ppm) @ 1.5 l/ ha + Foliar application of vegetable micronutrient mixture @ 2.5 g/ l of water twice at 15 days interval		Source-RRTTS,Ranital , OUAT -2021-22	
Observation Parameters	No of insect /leaf, no of hoppers /leaf, disease incidence %	Performance Indicator	Yield & Economics	
Associated Scientist(s)	B K Rautaray(Scientist PP) & B Mishra Scientist (Hort.)			

FLD No. 15	Demonstration on management of Sheath Blight in Rice		
Season & Year	Kharif - 2022	No. of Trials & village	13, Niladeipur, Choromuha
Crop / commodity	Bittergourd	Farming Situation	Rainfed Medium Land
Problem diagnosed	Low yield due to heavy incidence of Sheath Blight disease in Rice	Spread	20000ha
		intensity	65%
FP	Use of Hexaconazole 5 EC or Validamycin 3% @ 2.0 ml/lit of water after disease appearance		
Demo	Spraying of the combination fungicide Azoxystrobin+ Difenconazole @ 1ml/lit twice at 15 days interval starting from initiation of the infection		SLREC ,OUAT-2019-20
Observation Parameters	disease incidence %, No of infected tillers/hill, yield ,	Performance Indicator	Yield & Economics
Associated Scientist(s)	B K Rautaray(Scientist PP) & LK Mohanty Scientist (Agronomy.)		

FLD No. 16	Demonstration on management of Early shoot borer in Sugarcane		
Season & Year	Kharif - 2022	No. of Trials & village	13, Damodarpur
Crop / commodity	Sugarcane	Farming Situation	Rainfed Medium Land
Problem diagnosed	Low yield due to heavy incidence of early borer infestation in sugarcane	Spread	2000ha
		intensity	65%
FP	Application of cartap hydrochloride 4G @ 25 kg/ha		
Demo	Soil application of fipronil 0.3 G 25.0-33.0 kg / ha ,Early planting(Dec.), Inter crop with Dhanicha, Trash mulching on 3rd day after planting Apply Granulosis virus (GV) @ 1.1 x 105 granules twice on 35 and 50 DAP. Release tachinid parasitoid: *Sturmiopsis inferens* @ 125 gravid females.Spray chlorantraniprole 18.5 SC 375 ml/ha		ICAR-Sugarcane Breeding Institute ,Coimbatore -2020 (Annual Report-19-20)
Observation Parameters	Early shoot borer incidence (% deadheat), yield t/ha,	Performance Indicator	Yield & Economics
Associated Scientist(s)	B K Rautaray(Scientist PP) & LK Mohanty Scientist (Agronomy.)		

FLD No. 17	Demonstration on Mini Dal mill		
Season & Year	Kharif, 2022	No. of Trials & village	13, Balichandrapur, Kabirpur
Crop / commodity	Blackgram	Farming Situation	Rainfed MediumLand
Problem diagnosed	Making Dal by hand Chaki requires more time and labour and percentage of breakage is higher	Spread	5000 ha
		intensity	40-50%
FP	Use of Hand Chaki for dal production		
Demo	Mini Dal mill operated by 1hp single electronic motor		Source-AICRP on PHT, CAET, OUAT, 2018
Observation Parameters	Dal recovery (%), Dehusking efficiency (%), Milling efficiency (%),Milling capacity(kg/hr) Cost of milling (Rs./q), Cost saving (%,)Labour Saving (%)	Performance Indicator	Economics
Associated Scientist(s)	Dr. Bijayalaxmi Mohanta, Scientist (Agril. Engg.)		

FLD No. 18	Demonstration of dry land Power weeder for brinjal		
Season & Year	Kharif, 2022	No. of Trials & village	13, Karanjiari, Bahabalapur
Crop / commodity	Brinjal	Farming Situation	Rainfed MediumLand
Problem diagnosed		Spread	900 ha

	Manual weeding is costly and labour intensive	intensity		40-50%
FP	Use of spade for weeding (manual weeding)			
Demo	Weeding by dry land power weeder			Source- AICRP on FIM , CAET, OUAT, 2017-18
Observation Parameters	Field Capacity (ha/h), Weeding Index (%) , Cost of weeding (Rs./ha), Labour requirement (man-days/ha), Cost saving (%), Labour savings (%)		Performance Indicator	Yield &B:C Ratio Economics
Associated Scientist(s)	Dr. Bijayalaxmi Mohanta, Scientist (Agril. Engg.)			

FLD No. 19	Demonstration on multi crop seed cum fertilizer drill for sowing of greengram in rabi		
Season & Year	Rabi 2022-23	No. of Trials & village	13, Bahabalapur, Achyutpur,
Crop / commodity	Greengram	Farming Situation	Rainfed MediumLand
Problem diagnosed	Broadcasting of greengram leads to uneven population	Spread	12000 ha
		intensity	40-50%
FP	Broadcasting		
Demo	Tractor drawn Multi crop Seed cum fertilizer drill with cup feed metering mechanism		Source-AICRP on FIM,CAET,OUAT,2016
Observation Parameters	Field capacity (ha/h), cost of operation (Rs/ha), Plant population/sq.m (Nos.), Labour requirement (man-days/ha), Cost savings(%), labour savings (%)	Performance Indicator	Yield & Economics
Associated Scientist(s)	Dr. Bijayalaxmi Mohanta, Scientist (Agril. Engg.)		

FLD No. 20	Demonstration on value addition of oyster mushroom (preparation of soup powder)		
Season & Year	Rabi 2022-23	No. of Trials & village	13, Bhusandapur, Balichandrapur, Chhatia
Crop / commodity	Mushroom	Farming Situation	Home stead
Problem diagnosed	Distress sale in peak season	Spread	-
		intensity	40-50%
FP	Direct selling		
Demo	sorting and washing of mushrrom, grinding to paste adding 20% corn flour to it and dried in Solar drierand then grinded the flakes and mixing salt, sugar powder, milk powder, black peper and packing		Source- Annual report AICRP on PHET, 2020-21
Observation Parameters	Shelf life (days), Net income (Rs), Additional income over additional investment	Performance Indicator	Yield & Economics
Associated Scientist(s)	Dr. Bijayalaxmi Mohanta, Scientist (Agril. Engg.)		

FLD No. 21	Demonstration on effectiveness of short technology videos on technology adoption		
Season & Year	Kharif / Rabi 2022-23	No. of demo.	30
Crop/ Commodity	Mushroom Production	Farming Situation	Homestead
Problem Diagnosed	Less efficacy of existing dissemination modes i.e. text messages/verbal advisory	Spread and Intensity of problem	-
FP	Farmers are getting text messages and advisories from various sources		
Demo	Preparation of small videos (0.5 -2.0 minutes) on different activities / stages skill of production process of mushroom cultivation and the same will be sent through WhatsApp to the identified farmers only		
Details of Technology	Short videos will be prepared on different segments of mushroom production (starting from mushroom spawn selection, bed preparation up to packaging and marketing) and disseminated through WhatsApp at appropriate time to a selected group of producers		
Observation parameters	- Informative and timeliness of the information / technology / skill delivered -Understanding the method and process depicted in the video -Retention, retrieval & re-use of the content (Observation to be taken on a three point scale and measured in a weighted matrix)	Performance Indicator	- Awareness creation -Knowledge and skill acquisition & retention -Real-time applicability -Uptake of new practice - Information sharing & spillover effects -Change in perception
Associated scientist(s)	Mr. Subrata Kumar Panigrahi, Scientist (Agril. Extn.)		

FLD No. 22	Demonstration on Integrated nutrient management in colocasia		
Season & Year	Kharif 2022	No. of Trials & village	13, Arakhpur
Crop / commodity	colocasia	Farming Situation	Rainfed low Land, Vegetable-vegetable based cropping system
Problem diagnosed	Low yield from existing local variety	Spread	207 ha
		intensity	30-40%
FP	Improper fertilizer application		
Demo	Application of balanced dose of fertilizer I,e. 40-15-40 kg NPK with 10 tonnes of FYM per ha		Source- CTCRI, BBSR, 2019

Observation Parameters	No. of fingers/plant, weight of finger, yield/plant	Performance Indicator	Yield & BC Ratio
Associated Scientist(s)	Mr. Siba Prasad Mishra, PA (Horticulture)		

FLD No. 23	**Demonstration on Indian honey bee (*Apis cerana indica*)**			
Season & Year	Round the year	No. of Trials & village	**13, Batto**	
Crop / commodity	Honey bee	Farming Situation	Home stead	
Problem diagnosed	Low family income			
FP	New introduction			
Demo	Installation of Indian honey bee box with colony (Apis cerana indica)		Source- OUAT 2015	
Observation Parameters	Honey yield/box, no. of colonies/box	Performance Indicator	Yield & BC Ratio	
Associated Scientist(s)	Mr. Siba Prasad Mishra, PA (Horticulture)			

FLD No. 24	Demonstration on Kadaknath poultry for income generation			
Season & Year	Round the year	No. of Trials & village	13, Sansilo	
Crop / commodity	poultry	Farming Situation	Rainfed MediumLand	
Problem diagnosed	Low meat and egg production in local birds and high mortality due to disease incidence	Spread	20 villages	
		intensity	-	
FP	Local poultry bird			
Demo	Rearing of dual purpose poultry bird “Kadaknath”, body weight 1400 g/ 20 weeks, egg laying capacity 185 nos. of egg/ year		Source- CPDO, Bhubaneswar,2006	
Observation Parameters	Body wt./month, No. of eggs produced/year, Net return		Performance Indicator	Yield & Economics
Associated Scientist(s)	Mr. Siba Prasad Mishra, PA (Horticulture)			

FLD No. 25	Demonstration on high yielding IVY gourd variety Arka Nilachal kunkhi		
Season & Year	Rabi 2022	No. of Trials & village	13, Batto
Crop / commodity	IVY gourd	Farming Situation	Rainfed Medium Land,Rice-Vegetable cropping system
Problem diagnosed	Low yield due to use of local variety	Spread	72 ha
		intensity	20-30 %
FP	Local variety		

Demo	Arka Nilachal Kunkhi is a dual purpose variety with fruit weight of 23-25 gm. Each plant bears 800-850 fruit with yield potential of 18-20 kg per vine. Moderately tolerant to Anthracnose, downy mildew and fusarium wilt.		Source- CHES Bhubaneswar,2005
Observation Parameters	No. of fruits/plant, individual fruit wt. fruit yield/plant	Performance Indicator	Yield & BC Ratio
Associated Scientist(s)	Mr. Siba Prasad Mishra, PA (Horticulture)		

Seed /planting material & other production for 2022-23

Categories	Number / Area (ha)	No. of participants
Seed Production (q) (Paddy var. Swarna Sub-1)	240 qtl.	256
Planting material production (brinjal, chilli, tomato, onion, cauliflower, cabbage, capsicum, broccoli, drumstick, papaya etc.)	1,50,000	320
Soil testing (Soil Health card)	1000	1550
Fingerling production	50000	120
Livestock production	2000	50
Bio-input production (kg)	100 q. (vermicompost) 10 kg (Vermi worm)	105