ACTION PLAN 2022-23 (KVK-BOLANGIR)

1. Name of the KVK:Bolangir

Address	Telephone	E mail
At. Larkipali, (RE Farm) PO. Rajendra College , Bolangir-767002 (Odisha)	06652250165	kvkbolangir.ouar@gmail.com bolangirkvk@yahoo.com

2.Name of host organization :

Address	Telephone		E mail
	Office	FAX	
OUAT, Bhubaneswar	0674-2397424	0674-2397919	ouatacademic62@gmail.com

3.Training programmes to be organized (April 2022 to March 2023)

(No. of trainees under categories, date of training are tentative;Venue may be OFF / ON as per situation/ farmers choice)

(a) Farmers and farmwomen (51 nos.)

Thematic area	Title of Training	No.	Days	Venue On/ Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
CP	Brown manuring & green manuring technique in rice	1	1	OFF	20.06.2022	5	1	4	1	11	3	20	5	25
CP	Pre and Post emergence herbicide for weed management in rice and their mode of action.	1	1	OFF	13.07.2022	5	1	4	1	11	3	20	5	25
CP	Use of CLCC in Paddy for proper nitrogen management	1	1	OFF	16.07.2022	7	1	3	0	8	6	18	7	25
CP	Bio-fortified rice varieties & their agronomic practices	1	1	OFF	20.07.2022	2	0	4	1	14	4	20	5	25
CP	Nutrient management in maize based inter cropping system	1	1	OFF	24.08.2022	7	1	0	0	13	4	20	5	25
CP	Integrated Nutrient Management of finger millet for higher productivity	1	1	OFF	25.08.2022	5	1	4	1	11	3	20	5	25
CP	Seed treatment of pulses through microbial culture	1	1	OFF	19.09.2022	4	2	5	1	10	3	19	6	25
CP	Agronomic practices of sweet corn cultivation	1	1	OFF	22.09.2022	5	1	4	1	11	3	20	5	25
CP	Method and use bio decomposer	1	1	OFF/ ON	20.10.2022	4	2	5	1	10	3	19	6	25

CP	Integrated Weed Management in maize	1	1	OFF	22.11.2022	4	2	5	1	10	3	19	6	25
CP	Nutrient management in sesame	1	1	OFF	24.01.2023	5	1	4	1	11	3	20	5	25
CP	Effect of Foliar spray of nutrients (DAP and MOP) in green gram	1	1	OFF	25.01.2023	4	2	5	1	10	3	19	6	25
SFM	Nutrient management practices in ragi	1	1	OFF	27.07.2022	5	1	4	1	11	3	20	5	25
SFM	Application of balanced fertilizer for management of leaf reddening in Bt cotton	1	1	OFF	30.07.2022	5	1	4	1	11	3	20	5	25
SFM	Application of B and Mo for management of browning and whiptail disease in cauliflower	1	1	OFF	12.08.2022	4	2	5	1	10	3	19	6	25
SFM	Nutrient management practices in cotton	1	1	OFF	20.08.2022	5	1	4	1	11	3	20	5	25
SFM	Foliar application of nano urea fertilizer in transplanted rice	1	1	OFF	22.08.2022	5	1	4	1	11	3	20	5	25
SFM	Management of zinc deficiency in low land rice	1	1	OFF	16.09.2022	7	1	0	0	13	4	20	5	25
SFM	Integrated nutrient management in maize	1	1	OFF	01.10.2022	5	1	4	1	11	3	20	5	25
SFM	Effect of boron and zinc in maize	1	1	OFF	11.11.2022	4	2	5	1	10	3	19	6	25
SFM	Sulphur and boron application for development of pod and increasing oil content in groundnut	1	1	OFF	15.12.2022	5	3	3	1	9	4	17	8	25
SFM	Effect of lime coating and seed treatment in greengram	1	1	OFF	12.01.2023	4	2	5	1	10	3	19	6	25
SFM	Effect of Biofertilizer application in vegetables	1	1	OFF	10.02.2023	5	1	4	1	11	3	20	5	25
SFM	Sulphur application in onion for enlargement of bulb	1	1	OFF	23.03.2023	5	3	3	1	9	4	17	8	25
HOV	Scientific cultivation of Kharif Tomato	1	1	OFF	01.08.2022	5	0	3	0	17	0	25	0	25
HOV	Scientific cultivation of Kharif Tomato	1	1	OFF	04.08.2022	5	3	3	1	9	4	17	8	25
HOV	Protected cultivation of vegetable crops	1	1	OFF	13.10.2022	4	2	5	1	10	3	19	6	25

HOV	Training and pruning of orchards	1	1	OFF	27.10.2022	4	2	5	1	10	3	19	6	25
HOV	Commercial flower production	1	1	OFF	02.11.2022	5	0	3	0	17	0	25	0	25
HOV	Propagation technique of ornamental plants	1	1	OFF	16.11.2022	5	0	3	0	17	0	25	0	25
HOV	Export potential of ornamental plants	1	1	OFF	16.12.2022	5	0	3	0	17	0	25	0	25
MET	Draught mgmt. strategies	1	1	OFF	12.10.2022	5	3	3	1	9	4	17	8	25
MET	Climate smart agriculture in rainfed areas	1	1	OFF	19.10.2022	4	2	5	1	10	3	19	6	25
MET	Contingency crop planning for extreme weather condition	1	1	OFF	26.10.2022	5	3	3	1	9	4	17	8	25
MET	Climate smart agriculture	1	1	OFF	04.11.2022	4	2	5	1	10	3	19	6	25
MET	Judicious use of water in rainfed agriculture	1	1	OFF	23.11.2022	5	3	3	1	9	4	17	8	25
MET	Effect of weather on crop production	1	1	OFF	21.12.2022	4	2	5	1	10	3	19	6	25
MET	Effect of weather on crop production	1	1	OFF	28.12.2022	5	3	3	1	9	4	17	8	25
MET	Effect of weather on insect pest of different crops	1	1	OFF	11.01.2023	4	2	5	1	10	3	19	6	25
LPM	Methods of straw treatment and feeding strategies in cows	1	1	OFF	29.06.2022	5	3	3	1	9	4	17	8	25
LPM	Spineless cactus cultivation as an alternate fodder in dry and degraded soil	1	1	OFF	02.07.2022	4	2	5	1	10	3	19	6	25
LPM	Fodder (Hybrid Napier &Paragrass) cultivation strategies and feeding management in dairy cows	1	1	OFF	22.07.2022	5	3	3	1	9	4	17	8	25
LPM	Feeding management in anestorus cows	1	1	OFF	06.08.2022	4	2	5	1	10	3	19	6	25
LPM	Importance of deworming and vaccination in goats and strategies to be followed	1	1	OFF	26.08.2022	5	3	3	1	9	4	17	8	25
LPM	Azolla cultivation strategies and feeding strategies for dairy cows	1	1	OFF	07.09.2022	4	2	5	1	10	3	19	6	25
LPM	Proper feeding and housing management in goats	1	1	OFF	13.09.2022	5	3	3	1	9	4	17	8	25
LPM	Feeding management in pregnant does to prevent	1	1	OFF	15.10.2022	5	3	3	1	9	4	17	8	25

	low milk yield after parturition													
LPM	Rearing of improved backyard chicken variety in backyard system	1	1	OFF	28.10.2022	4	2	5	1	10	3	19	6	25
LPM	Feeding management of chicken in backyard and dip litter system	1	1	OFF	03.11.2022	5	3	3	1	9	4	17	8	25
LPM	Artificial brooding management in chicks to lower rate of chick mortality	1	1	OFF	10.11.2022	4	2	5	1	10	3	19	6	25
LPM	Importance of bypass fat and mineral mixture feeding in dairy cow	1	1	OFF	14.01.2023	4	2	5	1	10	3	19	6	25

(b) Rural youths (10 nos.)

Thematic area	**Title of Training**	**No.**	**Days**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
CP	Preparation and use of organic inputs for Natural farming	1	2	ON	28-29.10.2022	2	1	0	0	10	2	12	3	15
CP	Successful models of 1 ha integrated farming system	1	2	ON	23-24.11.2022	1	1	2	1	7	3	10	5	15
CP	Integrated weed management for different crops	1	2	ON	22-23.02.2023	2	0	1	0	10	2	12	3	15
MET	Climate resilient agriculture	1	2	ON	14-15.12.2022	2	0	1	0	10	2	12	3	15
HOV	Protected cultivation of vegetable crops	1	2	ON	18-19.12.2022	2	0	1	0	10	2	12	3	15
SFM	Vermicompost production technology	1	3	ON	17-19.08.2022	2	1	0	0	9	2	12	3	15
SFM	Site specific nutrient management	1	3	ON	07-09.09.2022	1	1	2	1	7	3	10	5	15
LPM	Small scale poultry farming for income generation	1	4	ON	16-19.11.2022	1	1	2	1	7	3	10	5	15
LPM	Feeding housing and disease management in dairy cows	1	2	ON	27-28.11.2022	2	0	1	0	10	2	12	3	15

LPM	Scientific goat farming for better profit generation	1	4	ON	08-11.02.2022	2	1	0	0	9	3	12	3	15

(c) Extension functionaries (7 nos.)

Thematic area	**Title of Training**	**No.**	**Days**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Othr**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
CP	Climate resilience agriculture	1	1	ON	07.12.2022	2	0	1	0	7	0	10	0	10
CP	Crop diversification in rainfed areas	1	1	ON	28.12.2022	2	0	1	0	7	0	10	0	10
CP	Importance of millets and its improved agro techniques	1	1	ON	18.01.2022	2	0	2	0	6	0	10	0	10
SFM	Role of nutrients, deficiency and their management in soil	1	1	ON	09.12.2022	2	0	1	0	7	0	10	0	10
SFM	Management of problem soil in the district	1	1	ON	20.01.2023	2	0	1	0	7	0	10	0	10
LPM	Recent trends in livestock disease management (Mastitis, Milk fever and FMD)	1	1	ON	27.12.2022	2	0	1	0	7	0	10	0	10
LPM	Antiparasitic resistance in livestock and strategies to control	1	1	ON	05.01.2023	2	0	2	0	6	0	10	0	10

4. Frontline demonstration to be conducted* (15 nos.)

FLD 1	**Demonstration on nutrient management in cotton**
Crop	Cotton
Thrust Area	Poor yield due to poor nutrient management
Thematic Area	Integrated Nutrient management
Season	Kharif 2022
Farming Situation	Irrigated medium land
FLD 2	**Demonstration on nutrient management in ragi**
Crop	Ragi
Thrust Area	Poor yield due to poor nutrient management in ragi
Thematic Area	Integrated Nutrient Management
Season	Kharif 2022
Farming Situation	Irrigated medium land
FLD 3	**Demonstration on integrated nutrient management in maize (*Zea mays*)**
Crop	Maize
Thrust Area	Poor production in maize due to improper nutrient management
Thematic Area	Integrated Nutrient Management
Season	Rabi 2022-23
Farming Situation	Irrigated Upland
FLD 4	**Demonstration on management of Zn deficiency in lowland rice**
Crop	Rice
Thrust Area	Low yield in rice due to micro nutrient deficiency
Thematic Area	Integrated Nutrient Management
Season	Kharif 2022-23
Farming Situation	Irrigated or Rainfed Low land
FLD 5	**Demonstration on Finger millet (Var. Arjun) to increase income of farm family**
Crop	Finger millet
Thrust Area	Low production from local var
Thematic Area	Varietal substitution
Season	Kharif 2022-23
Farming Situation	Rainfed Upland
FLD 6	**Demonstration on bio-fortified rice variety, CR Dhan 315**
Crop	Rice
Thrust Area	Mal nutrition among the farming community
Thematic Area	Varietal substitution
Season	Kharif 2022-23
Farming Situation	Rainfed medium land
FLD 7	**Demonstration on maize hybrid -Kalinga raj (OMH 14-27)**
Crop	Maize
Thrust Area	Low yield from local Maize var
Thematic Area	Varietal substitution
Season	Kharif 2022-23
Farming Situation	Rainfed Medium land
FLD 8	**Demonstration on weed management in maize**
Crop	Maize
Thrust Area	Low yild and low income due to heavy weed infestation
Thematic Area	Weed management
Season	Kharif 2022-23
Farming Situation	Irrigated medium land

FLD 9	**Demonstration on sweet corn hybrid Pusa Super sweet corn 1**
Crop	Sweet corn
Thrust Area	Low yield from existing sweet corn var
Thematic Area	Varietal trial
Season	Kharif 2022-23
Farming Situation	Irrigated medium land
FLD 10	**Demonstration of off-season cultivation of triple resistant tomato variety Arka Rakshak**
Crop	Tomato
Thrust Area	High incidence of diseases in existing Tomato var
Thematic Area	Varietal trial
Season	Kharif 2022-23
Farming Situation	Rainfed medium land
FLD 11	**Demonstration of Kharif onion variety Line 883**
Crop	Onion
Thrust Area	Low adaptation of high yielding kharif onion var
Thematic Area	Varietal trial
Season	Kharif 2022-23
Farming Situation	Rainfed medium land
FLD 12	**Demonstration on feeding of herbs and mineral mix to curb anestrous in cows**
Commodity	Cow
Thrust Area	To curb anestrous problem through herbal treatment
Thematic Area	Livestock Production and Mangement
Season	2022-23
Farming Situation	Home stead and grazing
FLD 13	**Demonstration on dietary supplementation of probiotics and concentrate on juvenile growth of goats**
Commodity	Goat
Thrust Area	To hasten body weight gain in kids through supplements
Thematic Area	Livestock production and management
Season	2022-23
Farming Situation	Semi intensive (Homestead and grazing)
FLD 14	**Demonstration of Aseel bird in backyard system**
Commodity	Poultry bird
Thrust Area	Developed backyard variety production in backyard system
Thematic Area	Livestock production and mangement
Season	Rabi 2022-23
Farming Situation	Backyard
FLD 15	**Demonstration on Artificial brooding management in chicks**
Commodity	Poultry bird
Thrust Area	To decrease chick mortality through proper brooding management
Thematic Area	Livestock production and management
Season	Rabi 2022-23
Farming Situation	Semi intensive

FLD No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			Tentative No. of farmers / demonstration								
					Name of Input	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Cotton	10	The spraying of urea increases the contents of protein and free amino acid in boll shell of Bt cotton which leads to improve the insect resistant and spraying of MgSO4 reduces the leaf cupping and interveinal chlorosis in cotton plant. The spraying of urea and MgSO4 manage the leaf reddening in cotton plant.	No of bolls/plant and weight of boll/plant	Cotton			2	0	1	0	7	0	10	0	10
2	Ragi	10	Application of lime @ 0.25LR (applied 15 days before sowing) along with 50%N-P2O5-K2O (30-20-20 kg ha-1) resulted in significantly higher grain yield in ragi as compared to 100% recommended dose. N was applied in three splits, 25, 50 and 25 per cent basal, at tillering and flowering stages respectively. P and K were applied as basal doses.	No of leaves/hill, no of tillers/hill, panicle length and panicle weight	Lime and NPK application in Ragi			2	0	1	0	7	0	10	0	10
3	Maize	10	Application of Soil Test Dose of N:P:K:B:Zn @ 150:75:60:1:5 kg ha-1 + Lime 0.1 LR + FYM @ 5 t ha-1	Cob length, Cob diameter, Seeds/cob,	NPK, FYM and Lime			2	0	1	0	7	0	10	0	10

			recorded highest grain yield of 7.6 t/ha which was 16% higher than the yield due to inorganic fertilizer alone.	rows/cob												
4	Rice	10	Application of soil test based major nutrients along with organic manure provides some of the trace elements which is not sufficient as per Zn requirement for rice is concerned. So a lower dose of Zn is applied as basal in form of Zn So4 which will meet the Zn requirement of Rice.	Initial and after harvest soil test value, Root growth(cm), Plant height, No. of tillers m2, No. of filled grain per panicle, 1000 grain weight (gm)	NPK and Zn			2	0	1	0	7	0	10	0	10
5	Finger Millet	10	Growing of Finger Millet Var. Arjun with 50-40-25 kg N-P2O5-K2O/ha along with Zinc @ 12.5 kg/ha + herbicide oxyflurofen @ 37.5 g/ha + one hand weeding at 21 DAS,The variety having duration 100-105 days, yield potential 6t/ha, Resistance to blast and stem borer	No. of tillers/ plant ; Farmers preference; pest incidence Yield/ha	Var Arjun NPK, Zn and PP Chemicals			2	0	1	0	7	0	10	0	10
6	Rice	10	CR Dhan 315 with an 25ppm zinc 125-135 days duration, medium slender grain, Moderately resistant to blast, neck-blast, brown spot sheath blight, leaf folder, with potential yield of 5.05t /ha	Effective panicles/ m2, No of filled grains /Panicle, Yield (q/ha)	CR Dhan 315 and Zn			2	0	1	0	7	0	10	0	10
7	Maize	10	Maize hybrid -Kalinga raj(OMH 14-27),duration-92days,tolerant to drought, resistance to bacterial stalk rot ,potential yield 79.5q/ha	Plant height, no grains/row, no rows/plant,cob length, no of cobs/Plant, Yield (q/ha)	Var-Kalinga Raj			2	0	1	0	7	0	10	0	10

8	Maize	10	Pre-emergence application of Atrazine 50 % wp @1.0 kg ai/ha followed by Tembotrine 115 ml ai/ha@21 DAS(4-5 leaf stage)	Plant height, no grains/row, no rows/plant,cob length, no of cobs/Plant, Yield (q/ha)	Weedicide in Maize			2	0	1	0	7	0	10	0	10
9	Sweet corn	10	Sweet variety Pusa Super sweet corn 1	Plant height, no grains/row, no rows/plant,cob length, no of cobs/Plant, Yield (q/ha)	Sweet corn variety-Madhuri			2	0	1	0	7	0	10	0	10
10	Tomato	10	**Arka rakshak**: High yield F1 hybrid with triple resistant to Bacterial wilt, Early blight and Tomato Leaf curl Virus. Yield 75 – 80t/ha. Seedling raising : May-June, seed rate – 200gm, spacing : 100cmx130cm, N:P:K-180:150:120kg/ha, Duration – 140 days, Yield 75-80t/ha.	Parameter (% of disease incidence) Fruit weight (gm), fruit size , No. of fruit/ plant	Tomato variety Arka Rakshak			1	1	1	0	6	1	8	2	10
11	Onion	10	**Line 883**: Bulb are dark, red, round shape, shiny skin, bulb dia 4.5-5.5cm, 90 days duration, avg. yield 300-325q/ha Seedling raising : May-June, seed rate – 10-12kg/ha, spacing : 10cmx15cm, N:P:K-225:310:90kg/ha.	Bulb size, bulb weight, incidence of disease and pest, days to maturity, yield q/ha	Onion variety **Line 883**			2	0	1	0	7	0	10	0	10
12	Cow	10	Supplementation of bael (50g) and curry leaves (50g) along with mineral mixture (50g) daily to cow	Incidence of reproductive ailment,	Mineral mix and herbs		-	2	0	1	0	5	2	8	2	10

				incidence of drop in milk, Over all milk yield												
13	Goat	10	After 6-8 hrs of free grazing feeding of kid with probiotics @ 3g/gaot/day and concentrate @ 1.5% of bw for 6 months Feeding of probiotics along with concentrate increases feed efficiency and will support body weight gain	Weight gain, Health status	Concentrate and probiotics		-	1	1	1	1	3	3	5	5	10
14	Poultry	10	Rearing of day old Aseel chick with proper brooding (feeding upto 21 days and vaccination upro 28 days) and further rearing in backyard system	Rate of chick mortality, wight gain in 1m, 2m ,3m age, Age of egg lying, Avg egg production in 6m and 1yr	Aseel chicks Developer feed		-	2	0	1	0	5	2	8	2	10
15	Poultry	10	Brooding management for 21 days with floor space of 0.3 ft2 with help of chick guards, artificial heat @1-3 watt/chick, feeder and drinkers @ 1 each for 50 birds. Vaccination against RD on 7th, 28th day IBD on 14th day. Use of electrolytes, preventive antibiotics during brooding and feeding management upto 21 days	Chick mortality rate, Growth rate in chicks upto 2 m of age	Day old chick Developer feed		-	2	1	1	0	5	1	8	2	10

Extension and Training activities under FLD:

Activity	Title of Activity	No	Clientele	Duration	Venue On/ Off	No. of Participants (tentative)								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Bio-fortified rice varieties & their agronomic practices	1	F/FW	1 day	Off	2	0	4	1	14	4	20	5	25
Training	Nutrient management in maize based inter cropping system	1	F/FW	1 day	Off	7	1	0	0	13	4	20	5	25
Training	Integrated Nutrient Management of finger millet for higher productivity	1	F/FW	1 day	Off	5	1	4	1	11	3	20	5	25
Training	Agronomic practices of sweet corn cultivation	1	F/FW	1 day	Off	5	1	4	1	11	3	20	5	25
Training	Integrated Weed Management in maize	1	F/FW	1 day	Off	4	2	5	1	10	3	19	6	25
Training	Nutrient management practices in ragi	1	F/FW	1 day	Off	5	1	4	1	11	3	20	5	25
Training	Application of balanced fertilizer for management of leaf reddening in Bt cotton	1	F/FW	1 day	Off	5	1	4	1	11	3	20	5	25
Training	Nutrient management practices in cotton	1	F/FW	1 day	Off	5	1	4	1	11	3	20	5	25
Training	Management of zinc deficiency in low land rice	1	F/FW	1 day	Off	7	1	0	0	13	4	20	5	25
Training	Integrated nutrient management in maize	1	F/FW	1 day	Off	5	1	4	1	11	3	20	5	25
Training	Scientific cultivation of Kharif Tomato	1	F/FW	1 day	Off	5	0	3	0	17	0	25	0	25
Training	Feeding management in anestorus cows	1	F/FW	1 day	Off	4	2	5	1	10	3	19	6	25
Training	Proper feeding and housing management in	1	F/FW	1 day	Off	5	3	3	1	9	4	17	8	25

	goats													
Training	Rearing of improved backyard chicken variety in backyard system	1	F/FW	1 day	Off	4	2	5	1	10	3	19	6	25
Training	Artificial brooding management in chicks to lower rate of chick mortality	1	F/FW	1 day	Off	4	2	5	1	10	3	19	6	25
Field Day	Nutrient mgmt. in cotton	1	F/FW	1 day	Off	7	1	3	2	13	4	23	7	30
Field Day	Nutrient management in Ragi	1	F/FW	1 day	Off	7	1	3	2	13	4	23	7	30
Field Day	INM in maize	1	F/FW	1 day	Off	7	1	3	2	13	4	23	7	30
Field Day	Finger millet Arjun	1	F/FW	1 day	Off	7	1	3	2	13	4	23	7	30
Field Day	Hybrid Maize Kalinga Raj	1	F/FW	1 day	Off	7	1	3	2	13	4	23	7	30
Field Day	Sweet corn Hybrid Pusa Super sweet corn 1	1	F/FW	1 day	Off	7	1	3	2	13	4	23	7	30
Field Day	Tomato Arka Rakshyak	1	F/FW	1 day	Off	7	1	3	2	13	4	23	7	30
Field Day	Probiotic and conc feeding in goats	1	F/FW	1 day	Off	7	1	3	2	13	4	23	7	30
Field Day	Aseel in backyard	1	F/FW	1 day	Off	7	1	3	2	13	4	23	7	30
Field Day	Artificial brooding in chicks	1	F/FW	1 day	Off	7	1	3	2	13	4	23	7	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 Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)

6. Extension Activities

Sl. No.	Activities/ Sub-activities	No. of activity	Total (Approx)		
			Male	Female	Total
1.	Field Day	12			480
2.	KisanMela	2			1000
3.	KisanGhosthi	2			50
4.	Exhibition	4			1000
5.	Film Show	2			40
6.	Method Demonstrations	8			80
7.	Farmers Seminar				
8.	Workshop				
9.	Group meetings	8			240
10.	Lectures delivered as resource persons	8			-
11.	Advisory Services	48			1000
12.	Scientific visit to farmers field	60			1500
13.	Farmers visit to KVK				
14.	Diagnostic visits	40			600
15.	Exposure visits	5			100
16.	Ex-trainees Sammelan	4			80
17.	Soil health Camp	3			120
18.	Animal Health Camp	2			70
19.	Agri mobile clinic				
20.	Soil test campaigns	3			120
21.	Farm Science Club Conveners meet				
22.	Self Help Group Conveners meetings	2			60
23.	MahilaMandals Conveners meetings				
24.	Celebration of important days (specify)	5			2500
25.	Sankalp Se Siddhi				
26.	Swatchta Hi Sewa	10			200
27.	MahilaKisanDiwas	1			30
28.	Any Other (Specify)				
	Total	225			9280

7. Revolving Fund (in Rs.)

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

8. Expected fund from other sources and its proposed utilization

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

9. On-farm trials to be conducted* (7 nos.)

OFT-1

Season	Kharif 2022
Title of the OFT-1	Assessment of nano urea liquid fertilizer in transplanted rice
Problem Diagnosed	Low yield due to Improper use of urea fertilizer
Important cause	No soil testing
Production System	Rice-Rice
Micro farming situation	Irrigated medium land
Technology for testing	TO1 : 50 % recommended N + 100 % P and K as basal application and two sprays Nano urea @ 0.2 % tillering and PI stage TO2 : 75 % recommended N + 100 % P and K as basal application and two sprays Nano urea @ 0.2 % at tillering and PI stage
Existing practice	100 % N (25 % basal + 50 % tillering stage + 25 % PI stage) as conventional urea application + 100 % P and K
Hypothesis	TO1:To know the effect of Nano urea by applying with 50 % recommended N with 100 % P,K which will increase the nitrogen use efficiency and extent to saving 50 % nitrogen TO2:To know the effect of Nano urea by increasing the recommended N i.e 75 % with 100 % P,K
Objectives	Proper nitrogen management
Treatment	TO1 : 50 % recommended N + 100 % P and K as basal application and two sprays Nano urea @ 0.2 % tillering and PI stage TO2 : 75 % recommended N + 100 % P and K as basal application and two sprays Nano urea @ 0.2 % at tillering and PI stage
Critical Inputs	Borax and Molybdenum
Unit Size	1 ha
No. of Replication	7
Unit cost	500
Total Cost	3500
Monitoring Indicator	Initial and post harvest soil test value, plant height in different stages, no of tillers/plant,yield, economics, B: C ratio
Source of Technology	Annual report AAU, 2019-20

OFT-2

Season	Rabi 2022-23
Title of the OFT-2	Assessment of micronutrient application in Cauliflower
Problem Diagnosed	Low yield due to micronutrient deficiency
Important cause	No micronutrient application
Production System	Rice-Vegetable
Micro farming situation	Rainfed Upland
Technology for testing	TO1 : STD + 3 foliar spray of 100 ppm boron (as borax) at 10 days interval TO2 : STD + 3 foliar sprays of 50 ppm boron + 50 ppm Mo at 10 days interval
Existing practice	No application of micronutrient, RDF(120:40:60)only
Hypothesis	TO1:To know the sole effect of boron we will apply boron which has effect on curd quality. Foliar application of 100 ppm boron in the form of Borax is done at 10 days interval manage the browning disorder. TO2:To know the combine effect of B with Mo. Mo increases the curd size, curd weight and manage the whiptail disease. 50 ppm B as Borax and 50 ppm Mo as Ammonium Molybdate is applied as foliar thrice at 10 days interval
Objectives	To manage the deficiency of micronutrient and contribution to yield
Treatment	TO1 : STD + 3 foliar spray of 100 ppm boron (as borax) at 10 days interval TO2 : STD + 3 foliar sprays of 50 ppm boron + 50 ppm Mo at 10 days interval
Critical Inputs	Borax and Molybdenum
Unit Size	0.2 ha
No. of Replication	10
Unit cost	500
Total Cost	5000
Monitoring Indicator	Curd weight (gm), Plant height (cm), Nutrient status , economics
Source of Technology	AICRP in vegetable crops, 2007 and Annual report, 2017-18 IIVR

OFT-3

Season	Kharif 2022-23
Title of the OFT-3	Assessment of herbicide for weed management in transplanted rice
Problem Diagnosed	Low yield due to heavy weed infestation
Important cause	No herbicide application
Production System	Rice based farming system
Micro farming situation	Rainfed Low and medium land
Technology for testing	TO1:Application of cyhalofop butyl + penoxulam @135g/ha at 20DAT TO2: Application of PE pendimethalin @0.75kg/ha,fbchlorimuron ethyl + metasulfuron methyl @ 4gm/ha @20DAT
Existing practice	1 HW at 20DAT
Hypothesis	TO1: Controls grassy weeds by inhibiting biosynthesis of fatty acids through controlling the production of acetyl coenzyme-Acarboxylase . TO2: Controls both broad leaf and sedges by inhibiting rapid of plant cell division and growth.
Objectives	To assess the performance of suitable herbicide in case of transplanted rice
Treatment	TO1:Application of cyhalofop butyl + penoxulam @135g/ha at 20DAT TO2: Application of PE pendimethalin @0.75kg/ha,fbchlorimuron ethyl + metasulfuron methyl @ 4gm/ha @20DAT
Critical Inputs	cyhalofop butyl, penoxulam, PE pendimethalin, chlorimuron ethyl, metasulfuron methyl
Unit Size	04 ha
No. of Replication	10
Unit cost	2000
Total Cost	20000
Monitoring Indicator	Weed flora composition,WCE(%),Weed index,panicle length, Grain Yield (q/ha),straw yield
Source of Technology	SLREC proceeding 2020,OUAT

OFT-4

Season	Rabi 2022-23
Title of the OFT-4	Assessment of bio digester for in-situ residue management in rice
Problem Diagnosed	Low yield due to nutrient loss from soil
Important cause	Lack of availability of suitable technology for rice residue management
Production System	Rice based
Micro farming situation	Rainfed Medium land & upland
Technology for testing	TO1: Use of NRRI decomposer TO2: Use of PUSA decomposer
Existing practice	Harvesting of rice in combine harvester and burning of residue in the field
Hypothesis	To1-10 capsules of Capsule based NRRI CONSORTIA (with secondary level multiplication with 2.0% jaggery solution (100 lit) for 4-5 days) are needed for decomposition of 1 ha paddy straw under ex-situ condition within 45 days. To2-Pusa decomposer is a mix of seven fungal strains that produces enzymes to digest celluose,lignin and pectin in paddy straw. For 1 ha stubble 25 lit of liquid mixture with 4 capsules,jaggery and pulse powder.
Objectives	To find out proper insitu decomposer of rice residue .
Treatment	TO1: Use of NRRI decomposer TO2: Use of PUSA decomposer
Critical Inputs	NRRI CONSORTIA and PUSA Decomposer
Unit Size	1ha
No. of Replication	10
Unit cost	Rs.1000
Total Cost	Rs.10000
Monitoring Indicator	Period of decomposition ,soil microbial properties, Soil organic carbon
Source of Technology	NRRI,2021 and

OFT-5

Season	Summer 2022-23
Title of the OFT-5	Assessment of suitable Sesame varieties
Problem Diagnosed	Low yield due to existing variety.
Important cause	Non-availability of HYV of Sesame
Production System	Rice-Sesame cropping system
Micro farming situation	Rainfed Medium land
Technology for testing	TO1: Sesame variety-Amrit [OSC24(95)2-1-3] Duration- 82-85 days TO2: Sesame variety –Smarakduration 80-85 days TO3: Sesame variety –Subhra,duration 90-100days
Existing practice	Cultivation of existing Sesame variety Vinayak
Hypothesis	To1-Light brown seed, tolerant to powdery mildew and alternaria leaf spot To2-White seed, tolerant to bacterial leaf spot, powdery mildew and alternaria leaf spot To3-Light brown seed, tolerant to alternariaalternaria leaf spot
Objectives	To find out suitable variety for Balangir district.
Treatment	TO1: Sesame variety- Amrit [OSC24(95)2-1-3] Duration- 82-85 days TO2: Sesame variety – Smarak duration 80-85 days TO3: Sesame variety – Subhra, duration 90-100days
Critical Inputs	Seeds of different varieties
Unit Size	0.2ha
No. of Replication	7
Unit cost	700
Total Cost	4900
Monitoring Indicator	Plant height, no of branches, no of pods/plant, seeds/pod, yield
Source of Technology	SLREC proceeding 2013,OUAT

OFT-6

Season	Through out the year 2022-23
Title of the OFT-6	Assessment of different feed regime on milk production in dairy cows
Problem Diagnosed	High grain cost leading to high cost of production and otherwise low milk production due to no grain feeding
Important cause	High commercial grain cost
Production System	Dairy
Micro farming situation	Homestead and grazing
Technology for testing	TO-1: Grazing + Straw @ 6-8 kg/day + Local available oil cake @ 100g/day TO2: Grazing + Straw @ 6-8 kg/day + Local available pulse residue (Gandhiri) @ 250g/day + Maize @ 250g/day
Existing practice	Grazing , heavy straw feeding and occasional concentrate feeding
Hypothesis	Feeding with locally available oil cake Feeding with locally available pulse residue and Maize
Objectives	Testing different feed regimes for dairy cow as an alternative to commercial grain to decrease cost of production of milk
Treatment	TO 1: Oil cake are good source of protein TO 2 : Pulse residues are source of protein and maize is source of carbohydrate
Critical Inputs	Oil cake, Gandhiri, Maize
Unit Size	1
No. of Replication	10
Unit cost	1500
Total Cost	15000
Monitoring Indicator	Milk yield/day, Lactation length, Health status
Source of Technology	Annual Report ICAR-ATARI, Kolkata, 2014

OFT-7

Season	Through out the year 2022-23
Title of the OFT-7	Assessment of the effect of deworming and calcium supplement on egg production of hen
Problem Diagnosed	Low egg production in desi and improved backyard var. hens
Important cause	Low egg production due to poor health status and also due to poor nutrition
Production System	Poultry
Micro farming situation	Backyard and semi intensive
Technology for testing	Feeding of Calcium and periodic deworming in hens to bolster egg production
Existing practice	Free range or semi intensive approach with out deworming or calcium supplementation
Hypothesis	Hens with regular deworming will be healthy further Calcium supplementation will support towards production of eggs
Objectives	To increase egg production by hens maintained in backyard and semi intensive system
Treatment	TO1: Free range + Deworming every month TO2: Free range + Calcium supplementation @ 1ml/bird (10 days every month for 1 year) TO3: Free range + Deworming + Calcium supplementation @ 1ml/bird (10 days every month for 1 year)
Critical Inputs	Deworming agent and Calcium solution
Unit Size	15
No. of Replication	7
Unit cost	2000
Total Cost	14000
Monitoring Indicator	Avg. egg production/ 6m, Avg. egg production/year, cost of production, BCR
Source of Technology	Annual report 2014-15, ICAR ZPD-II

Soil and Water testing

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC to be distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples												
Water Samples												
Others												
Total												

Heads	Expenditure (last year) up to 31.03.2022	Expected fund requirement 2022-23
TA		
Office Expenses/ POL etc.		
Training (FW/ RY/ IS)		
FLD		
OFT		
SCP Contingency		
HRD		
NR(Books)		
* Additional reqt. At New adm. Building		
Total		

Funds requirement and expenditure

ACTION PLAN

(2022-23)

KRISHI VIGYAN KENDRA, BOLANGIR

ODISHA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

FLD LISTS (2022-23)-CONTINGENCY

SL. NO.	NAME OF THE FLD	DISCIPLINE
1	Demonstration on nutrient management in cotton	SOIL
2	Demonstration on nutrient management in ragi	SOIL
3	Demonstration on integrated nutrient management in maize (*Zea mays*)	SOIL
4	Demonstration on management of Zn deficiency in lowland rice	SOIL
5	Demonstration on Finger millet (Var. Arjun) to increase income of farm family	AGRO
6	Demonstration on bio-fortified rice variety, CR Dhan 315	AGRO
7	Demonstration on maize hybrid -Kalinga raj (OMH 14-27)	AGRO
8	Demonstration on weed management in maize	AGRO
9	Demonstration on sweet corn hybrid Pusa Super sweet corn 1	AGRO
10	Demonstration of off-season cultivation of triple resistant tomato variety Arka Rakshak	HORT
11	Demonstration of Kharif onion variety Line 883	HORT
12	Demonstration on feeding of herbs and mineral mix to curb anestrous	ANS
13	Demonstration on dietary supplementation of probiotics and concentrate on juvenile growth of goats	ANS
14	Demonstration of Aseel bird in backyard system	ANS
15	Demonstration on Artificial brooding management in chicks	ANS

FLD LISTS (2022-23)-SCSP

SL. NO.	NAME OF THE FLD	DISCIPLINE
1	Demonstration on rice varietyCR Dhan206 (Gopinath)	AGRO
2	Demonstration on maize hybrid –Kalinga raj (OMH 14-27)	AGRO
3	Demonstration of scientific cultivation of groundnut var-Devi/Dharani	AGRO
4	Demonstration on nutrient management in cotton	SOIL
5	Demonstration on nutrient management in ragi	SOIL
6	Demonstration on integrated nutrient management in maize (Zea mays)	SOIL
7	Demonstration of Improved varieties of Drumstick Bhagya/Odishiin backyard	HORT
8	Demonstration of Improved varieties of Papaya(Redlady/ CO-2/EXP-15/ Coorghoney dew)in Backyard	HORT
9	Demonstration of Nutritional garden for nutritional security	HORT/AGROMET
10	Demonstration on dietary supplementation of probiotics and concentrate on juvenile growth of goats	ANS
11	Demonstration of improved poultry strain Kalinga Brown in backyard to increase farmers income	ANS
12	Demonstration of cultivation of oyster/ paddystraw Mushroom	AGROMET
13	Demonstration of sweet corn hybrid Pusa sweet corn-1	AGRO

SL. NO.	NAME OF THE FLD	DISCIPLINE
1	Assessment of nano urea liquid fertilizer in transplanted rice	SOIL
2	Assessment of micronutrient application in Cauliflower	SOI
3	Assessment of herbicide for weed management in transplanted rice	AGRO
4	Assessment of bio digester for in-situ residue management in rice	AGRO
5	Assessment of suitable Sesame varieties	AGRO
6	Assessment of different feed regime on milk production in dairy cows	ANS
7	Assessment of the effect of deworming and calcium supplement on egg production of hen	ANS

OFT LISTS (2022-23)-CONTINGENCY