

PROFORMA FOR ANNUAL REPORT 2022 (January-December 2022)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Jagatsinghpur At-Nimakana, P.O-Manijanga, Dist-Jagatsinghpur Pin-754160, State-Odisha	9937191300		kvkjagatsinghpur.ouat@gmail.com

1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
OUAT, Bhubaneswar Pin-751003 Odisha	(0674) 2392677	(0674) 2391780	registrarouat@gmail.com

1.3. Name of Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.Jibanjit Sen	At- KVK Nimakana, Jagatsinghpur Pin-754160, State-Odisha	9937191300	Jibanjit_sen@rediffmail.com

1.4. Year of sanction of KVK: 2005

1.5. Staff Position (as on 1st January, 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline/	Pay Scale with present basic	Date of joining	Permanent/Temporary	Category (SC/ST/OBC/Others)
1	Senior Scientist& Head	Dr. Jibanjit Sen	Senior Scientist & Head	Soil Sc. & Agril. Chemistry	79,800-2,11,500 Basic:89,800	27.07.2022	Temporary	OTHER
2	Scientist	Mr. Ashis Ku. Mohanty	Scientist (Horticulture)	Horticulture	57,700-1,82,400 Basic:89,800	23.09.2009	Temporary	OTHER
3	Scientist	Dr. Prabhat Kumar Padhi	Scientist (Animal Science)	Veterinary Science	15,600-39,100 AGP:6000 Basic:	16.06.2015	Temporary	OTHER
4	Scientist	Mr. Debasis Panda	Scientist (Plant protection)	Entomology	57,700-1,82,400 Basic: 89,800	09.06.2021	Temporary	OTHER
5	Scientist	Mr. Dwarika Mohan Das	Scientist (Agril. Engineering)	Agril. Engineering	15,600-39,100 AGP: 6000 Basic:19,810	09.06.2021	Temporary	OTHER
6	Scientist	Dr. Pradipta Majhi	SMS (Soil Sc. & Agril. Chemistry)	Soil Sc. & Agril. Chemistry	56,100-1,77,500 Basic:63,100	27.11.2018	Temporary	OTHER
7	Scientist	Mrs. Sasmita Purohit	Scientist (Home Science)	Home Science	57,700-1,82,400 Basic: 89,800	22.12.2018	Temporary	OTHER
8	Programme Assistant	Mrs. Sarita Das	Programme Assistant (Fishery)	Fishery Science	35,400-1,12,400 Basic:56,900	25.07.2018	Temporary	OTHER
9	Computer Programmer	Samir Kumar Pattanaik*	Prog. Asst. (Comp Sc)	Computer Sc.		31.01.2015	Temporary	OTHER
10	Farm Manager	Mr. Rabindra Kumar Pradhan	Farm Manager	Horticulture	35,400-1,12,400 Basic:56,900	16.11.2012	Temporary	OBC
11	Accountant / Superintendent	Vacant						
12	Stenographer	Mrs. Rajashree Singh	Jr. Steno-cum-Computer Operator	B.A.	25,500-81,100 Basic:41,000	09.06.2021	Temporary	OBC
13.	Driver-cum-Mechanic	Mr. Pradipta Kumar Barik,	Driver-cum-Mechanic	9 th	21,700-69,100 Basio:29,300	04.08.2008	Temporary	OBC
14.	Driver-cum-Mechanic	Mr.Jitendra Pradhan	Driver-cum-Mechanic	+2	21,700-69,100 Basio:29,300	01.08.2022	Temporary	OTHER
15.	Supporting staff	Vacant		-				
16.	Supporting staff	Smt. Urbasi Nayak	Peon-cum-Watchman	5 th	16,600-52,400 Basic:25,000	22.12.2007	Temporary	ST

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1.	Under Buildings	1.19
2.	Under Demonstration Units	1.5
3.	Under Crops	9.53
4.	Orchard/Agro-forestry	-
5.	Others with details	1.0
	Total	13.22

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S.No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					2008		Use	ICAR
2.	Farmers Hostel					2008		Use	ICAR
3.	Staff Quarters (6)					2012		Use	ICAR
4.	Piggery unit					2017		Use	RKVY
5.	Fencing					2015		Use	RKVY
6.	Rain Water harvesting structure					-			
7.	Threshing floor					2007		Use	ICAR
8.	Farm godown					2013		Use	ICAR
9.	Dairy unit					2017		Use	ICAR
10.	Poultry unit					2011		Use	RKVY
11.	Goatary unit					2011		Use	RKVY
12.	Mushroom Lab					2011		Use	RKVY
13.	Mushroom production unit					2017		Use	ICAR
14.	Shade house					2014		Use	RKVY
15.	Soil test Lab					2017		Use	ICAR
16.	Others, Please Specify								
	• Vermi Yard					2011		Use	RKVY
	• IFS Unit					2017		Use	ICAR
	• Herbal Garden					2017		Use	ICAR
	• Carp Hatchery					2011		Use	ICAR

* If not in use then since when and reason for non-use

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Swift Dzire	2022-23	6,37,890/-	8671	Running
Tractor	2018-19	7,00,000/-	9220	Running
Motor cycle	2010-11	65,000/-	26417	Running

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Automatic Nitrogen Analyzer with digestion Unit	2017	2,79,000	Working	ICAR
KES 08 LE	2017	77,500	Working	ICAR
KEL VAC VA	2017	69,900	Working	ICAR
Flame Photometer	2017	51,600	Working	ICAR
Digital Soil Moisture Meter	2017	27,706	Working	ICAR
Physical Balance	2017	3,350	Working	ICAR
All Glass Double Distillation Unit	2017	58,000	Working	ICAR
Distillation Appts Power Supply	2017	9,770	Working	ICAR
PH Meter-Micro Controller	2017	28,550	Working	ICAR
Conductivity Meter	2017	18,900	Working	ICAR
Rotary Shaker	2017	22,050	Working	ICAR
Flask Holding Clamp	2017	6,000	Working	ICAR
Mechanical Stirrer	2017	8,000	Working	ICAR
Bouycocus Hydrometer	2017	9,775	Working	ICAR
Hot Air Oven (Digital)	2017	27,310	Working	ICAR
Thermometer	2017	300	Working	ICAR
Water Quality Analyzer	2017	70,870	Working	ICAR
Vortex Shaker	2017	15,500	Working	ICAR
Magnetic Stirrer with Hot Plate	2017	16,800	Working	ICAR
Wooden Geological Hammer	2017	900	Working	ICAR
Sieve Brassframe	2017	3,570	Working	ICAR
Keen Cup	2017	3,600	Working	ICAR
Soil Moisture Sample Box	2017	3,300	Working	ICAR
Soil Agar Screw Type	2017	3,600	Working	ICAR
Electronic Balance	2017	64,000	Working	ICAR
Top Pan Balance	2017	36,000	Working	ICAR
PC based double beam UV Vis Spectrometer	2017	3,52,013	Working	ICAR
Refrigerated Centrifuge	2017	1,92,000	Working	ICAR
Angle Head R-244m -12x15ml	2017	17,000	Working	ICAR
Angle Head	2017	13,000	Working	ICAR
Voltage Stabilizer	2017	13,200	Working	ICAR
Hot Air Oven	2011	15,000	Working	RKVY
Autoclave fully automatic	2011	79,750	Working	RKVY
Pan Electronic Balance	2011	5,460	Working	RKVY
Honda Gen Set	2009	35,873	Working	ICAR
Laminar Air Flow	2011	55,125	Working	RKVY
Honda Brush Cutter	2018	27,585	Working	ICAR
Refrigerator	2011	19,000	Working	RKVY
Desktop Computer	2016	38,500	Working	ICAR
Printer	2018	14,000	Working	ICAR
Stabilizer	2018	4,800	Working	ICAR
Photo copier	2016	13,333	Working	ICAR
Xerox machine	2016	72,556	Working	ICAR

UPS	2016	1,636	Working	ICAR
Inverter with Battery	2017	34,349	Working	ICAR
Tablet	2017	10,004	Working	ICAR
Grinder	2016	2,600	Working	ICAR
Air Conditioner	2018	47,200	Working	ICAR
Desktop Computer	2018	47,750	Working	ICAR
Air Conditioner	2009	29,390	Working	ICAR
Air Conditioner	2011	30,190	Working	ICAR
b. Farm machinery				
MB Plough			Working	ICAR
Rotavator	2012	79,800	Working	ICAR
Cultivator	2012		Working	ICAR
Power sprayer	2012	9,054	Working	ICAR
Pumpset	2012	11,146	Working	ICAR
Pumpset	2015	19,000	Working	ICAR
c. AV Aids				
LCD projector	2009		Working	ICAR
Laptop	2009	47,300	Working	ICAR
DVD	2007	2,133	Working	ICAR
TV	2007	9,955	Working	ICAR
Amplifier	2017	10,500	Working	ICAR
Video Camera	2017	32,990	Working	ICAR
Digital Camera	2012	19,700	Not Working	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
MB Plough			Working	ICAR
Rotavator	2012	79,800	Working	ICAR
Cultivator	2012	80,000	Working	ICAR
Power sprayer	2012	9,054	Working	ICAR
Pumpset	2012	11,146	Working	ICAR
Pumpset	2015	19,000	Working	ICAR

1.8. Details of SAC meeting* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	09.03.2022	30	All OFT and FLD should incorporate statistical data	Statistical analysis has been done in all OFTs and FLDs	
			Crop management practices should be given importance rather than varietal trials	- Demonstration on foliar application of Arka Vegetable Special in cucumber has been conducted - INM in Brinjal, Tomato, Cucumber and IPM in stem borer in rice, DBM in Cabbage, Okra have been included in the action plan	
			Horticulture sector should focus more on management practices like nutrient and	Demonstration on application of NPK fertilizers with soil application of Arka Vegetable Special and	

			disease and pest along with new varietal trials	OUAT consortia have been taken. • Demonstration of Intergradient nutrient management in Betel vine programme has been conducted	
			Farm machinery trials should include testing and demonstration of new and profitable machines matching to the major cropping systems of the district like rice-greengram, vegetables-vegetable, rice-groundnut etc	• Demonstration of Power weeder in Brinjal, Groundnut digger, mini dal mill have been included • Sprinkler irrigation in greengram and greengram threshers have been undertaken • OFT trials for increasing greengram production and obtaining higher return.	
			Trials on micro-nutrient management should be focused	• Assessment of sulphur and boron application in cauliflower has been included in the action plan. • Demonstration on boron application in cucumber has been included in the action plan. • Demonstration on Zinc application in rice has been included in the action plan.	
			Submergence tolerant rice varieties may be demonstrated in water logging areas	• Demonstration on Swarna Sub-1 and CR-1009 sub-1 have been included in the action plan	
			Saline soil management should be included for coastal blocks	• Demonstration on saline tolerant varieties Luna Subarna and Luna Barihal have been conducted in NICRA village • Demonstration on green manuring in rice and creation of awareness through training have been conducted	
			Management of Stem borer and neck blast in low land rice may be undertaken	• Management practices against neck blast in rice • Assessment of Integrated management practices against stem borer in low land rice during <i>kharif</i>	
			Focus should be given on fresh water	• Demonstration on Integrated fish farming	

			aquaculture including integrated fish farming and value addition of fish for better income	- for more yield and additional income - Demonstration on Preparation of Value added products from Fish has been included	
			Post-harvest management practices should undertake and milk for increasing profitability	Training programme regarding Preparation of value added products from milk for income generation of WSHGs has been included	
2	30.11.2022	30	Management practices should be given importance rather than varietal trials.	- Assessment of Sulphur and Boron for higher yield in cauliflower - Assessment of sulphur application in rice crop for higher yield - Assessment of Integrated Nutrient Management in Okra	
			Management practices should be given importance rather than varietal trials	- Assessment of management practices against neck blast in rice - Assessment of the improved techniques for cultivation of paddy straw mushroom (<i>V. volvacea</i>) using crumbled straw	
			Horticulture sector should focus more on management practices like nutrient and disease and pest along with new varietal trials	- Demonstration on INM in Tomato - Demonstration on Foliar application of Polyfeed NPK(19:19:19) in Cauliflower. - Demonstration on Application of Micronutrients mixture in Bitter gourd	
			Farm machinery trials should include testing and demonstration of new and profitable machines matching to the major cropping systems of the district	- Demonstration on Rice Transplanter - Demonstration on Dry Land Power Weeder in Brinjal - Demonstration on Mini Dal Mill	
			Trials on micro-nutrient management should be focused	- Assessment of Sulphur and Boron for higher yield in cauliflower - Assessment of sulphur application in rice crop for higher yield	
			INM and IPM practices	Assessment of	

			should be emphasized for low land rice and vegetables	Integrated Pest Management against serpentine leaf miner in tomato Demonstration of Integrated management of wilt complex of Brinjal	
			INM and IPM practices should be emphasized for low land rice and vegetables	- Demonstration of management of Sheath blight in rice. - Demonstration of Integrated management of YMV in Okra	
			Greengram and Black gram varieties tolerant to YVMV may be demonstrated	Cluster frontline demonstration in Green gram variety IPM-02-14	
			Management of Stem borer and neck blast in low land rice may be undertaken	- Demonstration of management of Stem borer in rice. - Assessment of management practices against neck blast in rice	
			Focus should be given on fresh water aquaculture including integrated fish farming and fingerlings production for better income.	- Demonstration on "Mixed culture of Amur Carp along with IMC" in composite carp culture for more yield - Demonstration on "Stunted Fingerlings Production" of Mixed carp to get more profit in pisciculture - Demonstration on Integrated fish farming to get more profit in pisciculture	

** Salient recommendation of SAC in bullet form*

Attach a copy of SAC proceedings along with list of participants

2.a. District level data on agriculture, livestock and farming situation (2022)

Sl. No.	Item	Information
1	Major Farming system/enterprise	Rice- Greengram/,Rice-Vegetables, Rice-fallow /Dairy /Fishery
2	Agro-climatic Zone	East & south eastern coastal plain
3	Agro ecological situation	Costal irrigated alluvium Rain-fed alluvium Costal alluvial saline Costal waterlogged
4	Soil type	Sandy loam to clay loam
5	Productivity of major 2-3 crops under cereals,	Paddy-3.6 t/ha

	pulses, oilseeds, vegetables, fruits and others	Greengram -0.432 t/ha Blackgram -0.450 t/ha Chilli-1.13 t/ha, Sugarcane-70. t/ha, Groundnut-2.06 t/ha
6	Mean yearly temperature, rainfall, humidity of the district	30 °C & 18 °C, Annual rainfall – 1521.16 mm, 98%
7	Production of major livestock products like milk, egg, meat etc.	Dairy -102 MT milk/year, Pisciculture-Inland- 494.4 ton /year Marine fish -8000 ton/year, Poultry - 29.1 Million (Egg) 3.07 TMT (Meat), Goatery -2.13 TMT (Meat), Mushroom -10-12 q/day

Note: Please give recent data only

2.b. Details of operational area / villages (2022)

Sl. No	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1	Tirtol	Tirtol	Garam, Bhansar, Sanimul Khadal	Rice, Greengram, Vegetables, Dairy, Poultry	Low yield in rice and khaira disease, low quality of compost; Heavy incidence of pest and disease in rice Low yield in pulse, Low milk yield in Dairy, Low yield in vegetables	Sulphur and zinc application in low land rice, Demonstration of dry land weeder and Paddy Transplanter, IPM in rice, IPDM in vegetables Introduction of high yielding varieties of vegetables, Entrepreneurship development, Farm mechanization,
2	Erasama	Erasama	Achyutadpur, Oreisal, Kanipada	Rice, greengram, Dairy, Poultry, Pisciculture	Low yield, khaira disease in rice, Low yield in pulse, low quality of compost; Heavy incidence of pest and disease in rice Low yield in pulse, Low milk yield in Dairy, Less availability of inputs like seed fertilizer and fingerlings, Underutilization of marine fish	Sulphur and zinc application in low, vermicompost production; IPM in rice, Management of saline soil, INM in Greengram, Fish pond management, Entrepreneurship development, Farm mechanization

3	Kujanga	Kujanga	Saharadia / Bagoi/ Gorada	Rice, greengram, dairy, poultry, vegetables, Pisciculture	Low yield and poor quality in cauliflower and tomato, low quality of compost, Heavy incidence of pest and disease in rice Low yield in pulse, Low milk yield in Dairy, Underutilization of marine fish	INM in cauliflower and tomato, Use of seed cum fertilizer drill, IPM in rice, INM in Greengram, IPDM in vegetables Introduction of high yielding varieties of vegetables, Fish pond management, INM in vegetable, Entrepreneurship development, Farm mechanization
4	Raghunathpur	Raghunathpur	Gamhapur/ Ramchandrapur	Rice, greengram, dairy, poultry, vegetables	Low yield and poor quality in brinjal, cauliflower and tomato; low quality of compost; Low yield in rice, Heavy incidence of pest and disease in rice Low yield in pulse, Low milk yield in Dairy,	INM in Brinjal, cauliflower and tomato; vermicompost production; FLD on power weeder, IPM in rice, IPDM in vegetables Farm mechanization Introduction of high yielding varieties of vegetables, Entrepreneurship development
5	Jagatsinghpur	Jagatsinghpur	Gobindapokhari	Rice, greengram, dairy, poultry, Mushroom	Heavy incidence of pest and disease in rice Low yield in pulse, Low milk yield in Dairy, Low yield in mushroom	IPM in rice, Farm mechanization Entrepreneurship development

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2021-22) for its development and action plan

Name of village	Block	Action taken for development
Garam/ Bhansar/ Sanimula/ Kandal	Titrol	OFT on sulphur application in rice FLD on zinc application in rice OFT on Okra hybrids for resistance to YVMV. OFT on Micro-nutrient formulations in Bitter gourd. FLD on Yard Long Bean variety "Arka Mangala" for higher yield FLD on High yielding Onion variety Bhima Shakti

		FLD on Power weeder FLD on Transplanter FLD on Dal Mil FLD on Drip irrigation and fertigation
Saharadia/ Bagoi/ Gorada	Kujanga	FLD on sulphur application in tomato FLD on INM in Brinjal OFT on sulphur and boron application in cauliflower FLD on INM in greengram FLD on Power weeder OFT on Okra hybrids for resistance to YVMV. OFT on Micro-nutrient formulations in Bitter gourd. FLD on Yard Long Bean variety “Arka Mangala” for higher yield FLD on High yielding Onion variety Bhima Shakti FLD on Seedling raising technique in pro-trays with Arka Microbial Consortium (AMC) fermented Cocopeat. FLD on STBF+ seed treatment with Arka Microbial Consortium @10gm/100gm seed +soil application with 5kg AMC mixed with 500kg FYM FLD On Integrated management of wilt complex of brinjal FLD on integrated management for sucking pest complex in chilli
Achyutadaspur/ Oreisal/ Kanipada	Ersama	FLD on INM in greengram FLD on zinc application in rice FLD on HDPE bag for vermicompost production FLD on Green manuring in rice FLD on management of sheath blight in rice
Gamhapur	Raghunathpur	OFT on sulphur and boron application in cauliflower FLD on INM in brinjal FLD on sulphur application in tomato FLD on use of power weeder OFT on Okra hybrids for resistance to YVMV. OFT on Micro-nutrient formulations in Bitter gourd. FLD on Yard Long Bean variety “Arka Mangala” for higher yield FLD on High yielding Onion variety Bhima Shakti FLD on Seedling raising technique in pro-trays with Arka Microbial Consortium (AMC) fermented Cocopeat. OFT on assessment of Integrated management practice against surpentine leaf minor in tomato OFT-on assessment of Integrated management practices against neck blast in rice FLD on management of sheath blight in rice FLD On Integrated management of wilt complex of brinjal FLD on integrated management for sucking pest complex in chilli FLD on Integrated management of YMV in green gram
Gobindapokhari	Jagatsinghpur	OFT on Micro-nutrient formulations in Bitter gourd. FLD on Yard Long Bean variety “Arka Mangala” for higher yield FLD on High yielding Onion variety Bhima Shakti

2.1 Priority thrust areas

S. No	Thrust area
1.	Management of saline soil
2.	IPM and IDM in rice and vegetables
3.	Popularization of scented rice
4.	Introduction of high yielding varieties of vegetables and fruits
5.	Use of plasticulture
6.	Popularization of floriculture and high value crops

7.	IDM in betel vine
8.	Fish pond management
9.	Management practices in Dairy farming
10.	Empowerment of SHGs through agro enterprise
11.	Use of bio-fertilizers and bio-pesticides
12.	Feeding management in small ruminants
13.	Disease management in livestock and poultry
14.	Farm mechanization
15.	Micro irrigation

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievement of mandatory activities by KVK during the year

OFT												FLD											
No. of technologies tested:												No. of technologies demonstrated:											
Number of OFTs		Number of farmers										Number of FLDs		Number of farmers									
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement								
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
07	07	67	23	9	-	-	18	17	41	26	7	22	22	220	33	13	-	-	164	27	197	40	237

Training												Extension activities											
Number of Courses		Number of Participants										Number of activities		Number of participants									
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement								
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
88	79	2640	255	169	-	-	1137	669	1392	883	220	34	29	1740	236	289	-	-	441	484	677	73	1450

Impact of capacity building										Impact of Extension activities											
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									
Target	Achievement	SC		ST		Others		Total		Target	Achievement	SC		ST		Others		Total			
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	T		
36	29	1	23	28	-	-	441	4	6	7	30	30	1	3			60	50			1500

		8 0 0	6	9				8 4	7 7	7 3			0 0	0 0			0	0				
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Seed production (q)											Planting material (in Lakh)										
Target											Target										
290											1,33,375										
Achievement											Achievement										
260											1,33,375										

Livestock strains and fish fingerlings produced (in lakh)*											Soil, water, plant, manures samples tested (in lakh)										
Target											Target										
Poultry Bird:0.0955 Fingerlings: 3.79											0.02										
Achievement											Achievement										
Poultry Bird:0.0955 Fingerlings: 3.79											0.0209										

* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper	5		3	6.79	6.0		
Seminar/conference/ symposia papers	4	80					
Books	8	658					
Bulletins	4						
News letter	3	1500					
Popular Articles	8	Mass					
Book Chapter							
Extension Pamphlets/ literature	12	800					
Technical reports	2						
Electronic Publication (CD/DVD etc)	2	724					
TOTAL	48	3762					

1 Achievements on technologies assessed and refined

OFT-1

1 .	Title of On farm Trial	Assessment of Integrated Nutrient Management in Okra.
2 .	Problem diagnosed	Low yield
3 .	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO-1: Application of 150 kg. Nitrogen, 50 kg. Phosphorous, 75 kg. Potash, Azotobactor, Azospirillum, PSB @ 2.5 kg. each and soil application of borax 10 kg. per ha. TO-2 STBF+seed treatment with Arka Microbial Consortium @10gm/100gm seed +soil application with 5kg AMC mixed with 500kg FYM
4 .	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IARI Annual report-2008 and Technical Bulletin of IIHR-2012
5 .	Production system and thematic area	Vegetable- Vegetable, Integrated Nutrient Management
6 .	Performance of the Technology with performance indicators	Plant height (cm), Days to first flowering, fruit length(cm), No. of fruits per plant, yield(kg)/plant, Yield(q/ha)
7 .	Final recommendation for micro level situation	STBF+ seed treatment with Arka Microbial Consortium @10gm/100gm seed +soil application with 5kg AMC mixed with 500kg FYM recorded maximum yield in kharif Okra
8 .	Constraints identified and feedback for research	-
9 .	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Encouraging response from the farmers end as they got better income due to higher yield.

Thematic area: Integrated Nutrient Management

Problem definition: Low yield due to improper nutrient management

Technology assessed: **TO-1:** Application of 150 kg. Nitrogen, 50 kg. Phosphorous, 75 kg. Potash, Azotobactor, Azospirillum, PSB @ 2.5 kg. each and soil application of borax 10 kg. per ha.

TO-2 STBF+ seed treatment with Arka Microbial Consortium @10gm/100gm seed +soil application with 5kg AMC mixed with 500kg FYM

Table: 1

Technology option	No. of trials	Yield component				Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Plant height at 75DAS (cm)	Days to first flowering	Fruit length (cm)	No. of fruits per plant					
FP	7	72.6	44.46	12.8	11.40	104.8	64600	157200	92600	2.43
TO-I	7	86.24	42.24	13.7	12.60	112.6	68200	168900	100700	2.47
TO-II	7	92.18	40.61	14.0	15.20	118.2	68800	177300	108500	2.57

Results: STBF+ seed treatment with Arka Microbial Consortium @10gm/100gm seed +soil application with 5kg AMC mixed with 500kg FYM gave higher yield(118.2 q/ha) and B:C ratio(2.57)

OFT-2

1.	Title of On farm Trial	Assessment of Integrated Nutrient Management in Betel vine
2.	Problem diagnosed	Low leaf yield
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO-I: STBR+ Mustard oil cake @1.5 t/ha+ Vermicompost @ 10 t/ha. TO-II: STBR(50%)+ Mustard oil cake @1.5 t/ha+ Vermicompost @ 10 t/ha+ consortia of Azotobacter, Azospirillum & PSM each @ 4kg/ha inoculated to 300kg of VC, mixed with 15kg lime, incubated at 30% moisture for a week & applied in rhizosphere
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	SAU-Annual Report and AICRP on MAP & B, 2012-13
5.	Production system and thematic area	Betel vine- Betel vine, Integrated Nutrient Management

6.	Performance of the Technology with performance indicators	Vine length (cm), No. of leaves/vine, leave yield(lakh/ha), B:C ratio
7.	Final recommendation for micro level situation	STBR(50%)+ Mustard oil cake @1.5 t/ha+ Vermicompost @ 10 t/ha+ consortia of Azotobacter, Azospirillum & PSM each @ 4kg/ha inoculated to 300kg of VC, mixed with 15kg lime, incubated at 30% moisture for a week & applied in rhizosphere gives higher leaf yield in betel vine cultivation.
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Encouraging response from the farmers end as they got better income due to higher yield.

Thematic area: Integrated Nutrient Management

Problem definition: Low leaf yield due to improper nutrient management.

Technology assessed: Technology option-I (TO-I): STBR+ Mustard oil cake @1.5 t/ha+ Vermicompost @ 10 t/ha.

Technology option-II (TO-II): STBR(50%)+ Mustard oil cake @1.5 t/ha+ Vermicompost @ 10 t/ha+ consortia of Azotobacter, Azospirillum & PSM each @ 4kg/ha inoculated to 300kg of VC, mixed with 15kg lime, incubated at 30% moisture for a week & applied in rhizosphere

Table: 2

Technology option	No. of trials	Yield component					Leaf yield/ha (lakh)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Vine length (cm)	No. of leaves/vine	Lateral s/ vine	Leaf length (cm)	Leaf breadth (cm)					
FP	7	205.82	49.91	12.60	12.52	9.22	27.32	6,78,800	16,39,200	9,60,400	2.41
TO-I	7	212.42	56.36	14.30	14.43	11.78	31.46	6,96,400	18,87,600	11,91,200	2.71
TO-II	7	221.31	67.41	15.50	14.89	12.18	33.80	7,32,500	20,28,000	12,95,500	2.76

Results: STBR(50%)+ Mustard oil cake @1.5 t/ha+ Vermicompost @ 10 t/ha+ consortia of Azotobacter, Azospirillum & PSM each @ 4kg/ha inoculated to 300kg of VC, mixed with 15kg lime, incubated at 30% moisture for a week & applied in rhizosphere in betel vine cultivation gave higher leaf yield(33.80lakh/ha) and B:C ratio(2.76).

OFT-3

1.	Title of On farm Trial	Assessment of IPM modules against stem borer in low land rice
2.	Problem diagnosed	Low yield due to high infestation of stem borer
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	(TO-1): Fixing of Pheromone traps @ 8 traps/ha, Solar light for monitoring YSB and application of Chlorantraniliprole 0.4 G @10kg/ha at 25DAT (TO-2): Spraying alternately with Chlorantraniliprole 20 % SC @ 150 ml/ha, Cartap hydrochloride 50% SP @ 1000 g/ha & Triflumezopyrim 10 % SC @ 240 ml/ha at 25, 50 and 65 DAT
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	NCIPM Annual Report,2019 NRRI Annual Report,2021
5.	Production system and thematic area	Rice-Green gram, IPM
6.	Performance of the Technology with performance indicators	% of dead heart,% Ear head, Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio,
7.	Final recommendation for micro level situation	Spraying alternately with Chlorantraniliprole 20 % SC @ 150 ml/ha, Cartap hydrochloride 50% SP @ 1000 g/ha & Triflumezopyrim 10 % SC @ 240 ml/ha at 25, 50 and 65 DAT reduces stem borer infestation and gives higher yield.
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Farmers are very much interested to spray 3 times for reducing stem borer infestation.

Thematic area: IPM Problem definition: Low yield due to high infestation of stem borer

Technology assessed: (TO-1): Fixing of Pheromone traps @ 8 traps/ha, Solar light for monitoring YSB and application of Chlorantraniliprole 0.4 G @10kg/ha at 25DAT
(TO-2): Spraying alternately with Chlorantraniliprole 20 % SC @ 150 ml/ha, Cartap hydrochloride 50% SP @ 1000 g/ha & Triflumezopyrim 10 % SC @ 240 ml/ha at 25, 50 and 65 DAT

Table: 1

Technology option	No. of trials	% Dead heart	% White Ear head	Yield (q/ha)	% Change in yield	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	10	9.55	8.08	37.79		49900	77092	27192	1.54
TO-I	10	4.19	3.10	42.25	11.80	51400	86190	34790	1.67
TO-II	10	4.0	2.81	45.45	20.26	53500	92718	39218	1.73

Results: Spraying alternately with Chlorantraniliprole 20 % SC @ 150 ml/ha, Cartap hydrochloride 50% SP @ 1000 g/ha & Triflumezoprym 10 % SC @ 240 ml/ha at 25, 50 and 65 DAT reduces stem borer infestation.

OFT-4

1.	Title of On farm Trial	Assessment of Integrated management practices against YVMV disease of Green gram during Rabi season.
2.	Problem diagnosed	Low yield due to lack of awareness on IPM practices for YVMV.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	(TO-1): Seed treatment with Thiomethoxam 25WG @ 5g/kg seed followed by installation of Yellow sticky trap @ 50 traps/ha and spraying of Acetamiprid @0.03% twice at 30 DAS and after 15 days interval (TO-2): Seed treatment with Imidacloprid 600 FS @ 5ml/kg seed followed by installation of Yellow sticky trap @ 50 traps/ha and spraying of Neem oil @0.15% at 30 DAS and need based spraying of Diafenthuriun 50 WP @ 0.1 % at 45 DAS
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT SLREC Proceedings,2019 OUAT Annual Report,2020-21
5.	Production system and thematic area	Rice-Green gram , IPM
6.	Performance of the Technology with performance indicators	No. of plants infected, Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio
7.	Final recommendation for micro level situation	Seed treatment with Imidacloprid 600 FS @ 5ml/kg seed followed by installation of Yellow sticky trap @ 50 traps/ha and spraying of Neem oil @0.15% at 30 DAS and need based spraying of Diafenthuriun 50 WP @ 0.1 % at 45 DAS reduces whitefly infestation and check YVMV disease effectively.

8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Farmers are very much interested to adopt IPM for reducing whitefly infestation.

Thematic area: IPM

Problem definition: Low yield due to high incidence of YVMV.

Technology assessed: (TO-1): Seed treatment with Thiomethoxam 25WG @ 5g/kg seed followed by installation of Yellow sticky trap @ 50 traps/ha and spraying of Acetamiprid @0.03% twice at 30 DAS and after 15 days interval

(TO-2): Seed treatment with Imidacloprid 600 FS @ 5ml/kg seed followed by installation of Yellow sticky trap @ 50 traps/ha and spraying of Neem oil @0.15% at 30 DAS and need based spraying of Diafenthuriun 50 WP @ 0.1 % at 45 DAS

Table: 1

Technology option	No. of trials	% affected plants	Yield (q/ha)	% Change in yield	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	10	19.0	4.2		20300	29400	9100	1.44
TO-I	10	6.3	5.3	26.19	21500	37100	15600	1.72
TO-II	10	4.2	6.1	45.23	21800	42700	20900	1.95

Results: Seed treatment with Imidacloprid 600 FS @ 5ml/kg seed followed by installation of Yellow sticky trap @ 50 traps/ha and spraying of Neem oil @0.15% at 30 DAS and need based spraying of Diafenthuriun 50 WP @ 0.1 % at 45 DAS reduces whitefly infestation and check YVMV disease incidence.

OFT-5

1.	Title of On farm Trial	Assessment of humidity/moisture management in paddy straw mushroom in low temp.
2.	Problem diagnosed	Low yield of paddy straw mushroom due to low humidity and environmental rise in temperature
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Technology option-I (TO-I): Cultivation of paddy straw mushroom with bundle straw substrate (3 layers) with covering the floor with 2 inch sand in moist condition. Technology option- II (TO-II): Cultivation of paddy straw mushroom with bundle straw substrate (3 layers) with covering the floor with sand in moist condition and spreading wet gunny bag along the windows / wall
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT-2014 (KVK- Bargarh)
5.	Production system and thematic area	Mushroom-Mushroom
6.	Performance of the Technology with performance indicators	Cost of intervention. Additional income over additional investment, Yield (kg/bed), B:C ratio, Days to first flush, Size of fruit budding, Average fruit body wt. Pin head appearance (Days), Biological efficiency,
7.	Final recommendation for micro level situation	Yield of mushroom is better with bundle straw substrate (3 layers) with covering the floor with sand in moist condition and spreading wet gunny bag along the windows / wall
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Farmwomen are interested to adopt this technology

Thematic area: Mushroom cultivation

Problem definition: Low yield of paddy straw mushroom due to low humidity and environmental rise in temperature

Technology assessed: Technology option-I (TO-I): Cultivation of paddy straw mushroom with bundle straw substrate (3 layers) with covering the floor with 2 inch sand in moist condition.

Technology option-II (TO-II): Cultivation of paddy straw mushroom with bundle straw substrate (3 layers) with covering the floor with sand in moist condition and spreading wet gunny bag along the windows / wall

Table: 1

Technology option	No. of trials	Production/unit (10 beds)	Biological efficiency(%)	Cost of input(Rs/)	Incremental income (Rs/)	Net Income (Rs/)	BC Ratio
FP	7	8	8	800	1440	640	1.8
TO-I	7	9.23	9.23	870	1661	791	1.9
TO-II	7	12	12	900	2160	1210	2.4

Results: Yield of mushroom is better with bundle straw substrate (3 layers) with covering the floor with sand in moist condition and spreading wet gunny bag along the windows / walls

OFT-6

1.	Title of On farm Trial	Assessment of value added products of tomato for income generation
2.	Problem diagnosed	Distress sale of tomato at peak season and non availability of storage unit
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Technology option-I (TO-I): Preparation of tomato puree with adding glacial acetic acid and sodium benzoate as preservatives. Technology option- II (TO-II): Preparation of tomato powder by washing, cutting slices (5mm) and drying @ 180° C for 10 hrs. The dehydrated pieces were grind into powder. It can be safely stored upto 9 months.

4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	Post harvest Technology Centre,TNAU,2015
5.	Production system and thematic area	Value addition
6.	Performance of the Technology with performance indicators	Cost of cultivation,Additional income over additional investment,yield (Rs/Kg),B:C ratio
7.	Final recommendation for micro level situation	It can be safely stored upto 9 months
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Farmwomen are interested to adopt this technology

Thematic area: Value addition

Problem definition: Distress sale of tomato at peak season and non availability of storage unit

Technology assessed: Technology option-I (TO-I): Preparation of tomato puree with adding glacial acetic acid and sodium benzoate as preservatives.

Technology option-II (TO-II): Preparation of tomato powder by washing,cutting slices (5mm) and drying @ 180° C for 10 hrs. The dehydrated pieces were grind into powder.It can be safely stored upto 9 months.

Table: 1

Technology option	No. of trials	Keeping quality (days)	Cost of cultivation(Rs/ per 10 kg)	Gross return	Net return	B:C Ratio
FP	7	5	50	80	30	1.6
TO-I	7	180	70	200	130	2.85
TO-II	7	270	80	240	160	3.0

Results: This technology was highly appreciated by SHG group members as the method of preparation is very easy and its shelf life is more

OFT-7

1.	Title of On farm Trial	Assessment of Sulphur and Boron for higher yield in cauliflower
2.	Problem diagnosed	Low curd keeping quality, flavour and yield due to secondary and micro nutrient deficiency
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO-1: STB R(NPK) + Sulphur @ 30 kg ha ⁻¹ as basal application TO-2: STBR (NPK) + Sulphur @ 30 kg ha ⁻¹ + 1 kg Boron as basal application TO-3: STBR (NPK) + 1 kg Boron as basal application
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on Secondary and Micronutrient and Pollutant Element, OUAT, Bhubaneswar, Odisha, 2017
5.	Production system and thematic area	Rice-Green/Black Gram/ Vegetables& Nutrient Management
6.	Performance of the Technology with performance indicators	Curd weight (gm), plant spread (cm), no. of days harvesting, soil test value (before sowing and after harvesting)
7.	Final recommendation for micro level situation	STBR (NPK) + Sulphur @ 30 kg ha ⁻¹ + 1 kg Boron as basal application is recommended for higher yield in cauliflower.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Encouraging response from the farmer end as they got better price due to higher yield.

Thematic area: Nutrient management

Problem definition: Low curd keeping quality, flavour and yield due to secondary and micro- nutrient deficiency

Technology assessed: TO-1: STBR (NPK) + Sulphur @ 30 kg ha⁻¹ as basal application

TO-2: STBR (NPK) + Sulphur @ 30 kg ha⁻¹ + 1 kg Boron as basal application

TO-3: STBR (NPK) + 1 kg Boron as basal application

Table: 1

Technology option	No. of trials	Yield component	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Curd weight(g)					
FP	7	432	252	75400	174200	98800	2.31
TO-I	7	540	268	77200	219400	142200	2.84
TO-II	7	620	288	78400	240800	162400	3.07
TO-III	7	542	272	76200	223000	146800	2.92

CD(0.05)		14.80				
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Results: STBR (NPK) + Sulphur @ 30 kg ha⁻¹ + 1 kg Boron as basal application gives highest yield and B:C ratio.

OFT-8

1.	Title of On Farm Trial	Assessment of sulphur management in rice
2.	Problem diagnosed	Low yield
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO-I: Soil Test Based Recommendation (STBR) NPK TO-II: STBR NPK + FYM 5t/ha + Sulphur @ 30 kg/ha
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Directorate of Research, OUAT, Bhubaneswar, Odisha, 2016-17
5.	Production system and thematic area	Rice-Green/Black Gram & Nutrient Management
6.	Performance of the Technology with performance indicators	Initial and after harvest soil test value, Plant height (cm), No. of tillers per hill, No. of effective tillers per m ² , LAI, No. of filled grain per panicle, Panicle length (cm), panicle weight (g), 1000 grain weight (gm), Cost of intervention. Additional income over additional investment Yield (q ha ⁻¹), B:C ratio
7.	Final recommendation for micro level situation	STBR NPK + FYM 5t/ha + Sulphur @ 30 kg/ha gives better yield
8.	Constraints identified and feedback for research	STBR NPK + FYM 5t/ha + Sulphur @ 30 kg/ha resulted 17.73% better yield than FP
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Encouraging response from the farmer end as they got better price due to higher yield.

Thematic area: Nutrient management

Problem definition: Low yield

Technology assessed: Technology option-I (TO-I): Soil Test Based Recommendation (STBR) NPK

Technology option-II (TO-II): STBR NPK + FYM 5t/ha + Sulphur @ 30 kg/ha

Table:

Technology option	No. of trials	Yield component			Plant height (cm)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/m ²	Panicle length (cm)	Test wt. (1000 grain wt.)						
FP	7	256	19.8	21.0	97.5	39.7	49500	80988	31488	1.63
TO-I	7	298	21.8	21.7	102.8	43.2	50500	88120	37620	1.74
TO-II	7	311	23.9	22.2	106.0	46.8	53000	95472	42472	1.80
CD (0.05)						13.95				

Results: STBR NPK + FYM 5t/ha + Sulphur @ 30 kg/ha as basal application gives highest yield and B:C ratio.

Please provide all the OFTs in same format

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1.	Chilli	Integrated crop management	Chilli hybrid Arka Khyati : For fresh market, smooth and medium pungent, light green, turn red on maturity, tolerant to CMV, yield of 40-45 t/ha(fresh) and 5-5.5 t/ha(dry) in 180 days. Fruit length 10-12 cm and width 1 to 1.2 cm.	1.0	1.0	1	-	-	-	9	-	10	-	10	

[illegible]

		Management	for L.orbonalis. @25no/ha, Spraying of neem oil 1500ppm @ 5ml /lit at weekly intervals, Release of Trichogramma chilonis @ 50,000/ha. 10days interval 6 times, Collection and destruction of damaged shoot and fruits, application of Spinosad 4ml/10lit. if needed												
7	Cabbage	Integrated Pest Management	Growing of mustard as trap crop 16:1 ratio,15days before transplanting of main crop+Pheromone trap @25 traps/ha and alternate spraying of Neem oil 5% and Spinosad 45SC @125ml/ha	2.0	2.0										
8	Tomato	Integrated Pest Management	Removal of alternate host, growing of seedlings in protected cultivation, alternate spraying of Cartap hydrochloride 50 SP @ 2gm/ ltr of water & Spinosad 45 SC @ 1ml/ 3 ltr of water at 10 days interval	2.0	2.0										
9	Rice	Nutrient Managemen t	STBR NPK + 5t FYM ha-1 + Zn @ 2.5 kg ha-1	2.0	2.0	3	-	-	-	7	-	10	-	10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P ₂ O ₅	K ₂ O					
Chilli	Rabi	irrigated	Alluvial soil	168-295	11.05-20.16	146-330	Cucumber/Bitter gourd	07.10.22-15.10.22	15.02.23-10.03.23	216.8	11
Bittergourd	Kharif	Rainfed	Alluvial soil	168-295	11.05-20.16	146-330	Cauliflower/ Cabbage	23.07.22-30.07.22	24.09.22-30.09.22	480.8	20.2
Tomato	Rabi	irrigated	Alluvial soil	168-295	11.05-20.16	146-330	Cucumber/Bitter gourd	07.10.22-15.10.22	15.01.23-28.02.23	216.8	11
Brinjal	Kharif	Rainfed	Alluvial soil	168-295	11.05-20.16	146-330	Cauliflower / Cabbage	12.07.22-16.07.22	15.11.22-10.12.22	480.8	20.2
Rice	Kharif	Rainfed	Alluvial soil				rice/ greengram	15.07.22-20.07.22	15.12.22-25.12.22		
Brinjal	Rabi	irrigated	Alluvial soil				Cauliflower/ Cabbage	15.07.22-18.07.22	15.11.22-10.12.22		
Cabbage	Rabi	irrigated	Alluvial soil				Cucumber/Bitter gourd	15.10.22-18.10.22	15.12.22-19.12.22		

								2		
Tomato	Rabi	irrigated	Alluvial soil				Cucumb er/Bitter gourd	07.10.22-15.10.22	15.01.23-28.02.23	

In both the Tables, information of same crop should be provided. For example, if in Table 3.2A crops are mentioned as a,b,c,d etc., in the table for Details of farming situation, the same crop should be mentioned in the identical sequence.

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Groundnut	Nutrient Management	Application sulphur @ 30 kg/ha and Boron @ 1.25 kg /ha as Borax	10	1	19.2	15.8	21.51	43470	92160	58690	2.12	41400	75840	34440	1.83
Total			10	1											

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Pulses

Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)	% Increase	*Economics of demonstration (Rs./ha)	*Economics of check (Rs./ha)
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		demonstrated			Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Greengram	Nutrient Management	STBR (NPK) with FYM @5t/ha and seed inoculation with rhizobium @20g/kg seed and treatment with Ammonium Molybdate @10g/25 kg of seed	10	2	6.55	5.02	30.47	21050	45850	24800	2.17	18650	35140	16490	1.88

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Chilli	Integrated crop management	Demonstration of Chilli hybrid Arka Khyathi	10	1.0	226.4	188.2	20.09	Plant height at 120 DAT- 95.42 cm Yield/plant- 1.37 kg	Plant height at 120 DAT- 78.16 cm Yield/plant- 0.96 kg	78800	224400	145600	2.84	74200	188200	114000	2.53

Bittergourd	Nutrient Management	Demonstration on Application of Micro-nutrients mixture in Bittergourd	10	1.0	612.6	516.4	18.62	Vine length at 120DAS-316.50 cm Yield/vine (kg)-1.587	Vine length at 120DAS-243.13 cm Yield/vine (kg)-1.075	79600	183780	104180	2.30	76200	154920	78720	2.13
Tomato	Integrated crop management	Demonstration of Tomato hybrid Arka Abhed	10	1.0	438.6	386.2	13.56	Plant height(cm) at 120 DAT-86.55 Days to 1 st flowering-20.27	Plant height(cm) at 120 DAT-64.21 Days to 1 st flowering-19.16	69200	175440	106240	2.53	68600	154480	85880	2.25
Brinjal	Integrated Nutrient Management	Demonstration of Integrated Nutrient Management in Brinjal	10	1.0	296.8	252.4	17.59	Plant height(cm) at 90 DAT-48.36 Days to 1 st flowering-42.32	Plant height(cm) at 90 DAT-41.22 Days to 1 st flowering-49.24	76,400	178080	101680	2.33	74,600	151440	76840	2.03
Rice	Integrated Disease Management	Demonstration of Management practices against neck blast in rice	10	2.0	48.75	41.34	17.92	% infected panicles/sq.mt 3.4	% infected panicles/sq.mt 19.2	52600	99450	46850	1.89	50900	84334	33434	1.65
Brinjal	Integrated Pest Management	Demonstration of Bio intensive management of Brinjal fruit and shoot borer	10	2.0	302	244	23.77	%shoot damage-4.65, % fruit damage-6.61	%shoot damage-15.90, % fruit damage-28.65	85200	248024	162824	2.91	81200	208320	127120	2.56
Cabbage	Integrated Pest Management	Demonstration of Integrated management practices for DBM in Cabbage	10	2.0	268	194.6	37.71	No. of larvae / plant-2	No. of larvae / plants12	74200	160800	86600	2.16	72500	116760	44260	1.61
Tomato	Integrated Pest Management	Demonstration of Integrated pest management against serpentine leaf minor in tomato	10	2.0	272	220	23.63	%leaf infestation-6.50	%leaf infestation-24.2	65400	190400	125000	2.91	61200	154000	92800	2.51
	Total		80														

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demons ration	Check		Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	
Buffalo																	
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl.specify)																	
Total																	

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demons ration	Check		Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps	Replacement of species	Mixed culture of Amur carp along with other carps	10nos	-	32qt	22qt	29%	Average growth rate 850gm/year and average length 25cm/year	Average growth rate 550gm/year and average length 15cm/year	93000	380000	287000	3.08	92000	250000	162000	1.73

Mussels																	
Ornamental fishes																	
Jayanti Rohu, Advance Catla, Advance Mrigal.	Replacement of species	Production of Stunted fingerlings	10nos	-	Continuing												
Intigrated fish Farming	Intigrated fish Farming	Integrated fish farming along with Duck and Poultry	10 nos	-	Continuing												
	Total																

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demons ration	Check		Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Blue Oyster mushroom Cult.	10	200 beds	23kg/10 beds	20kg/10 beds	15	B.E (%)= 115 Wt. of fruit= 50 gm	B.E (%)= 100 Wt. of fruit= 40 gm	400	1840	1440	4.6	400	1600	1200	4
Paddystraw mushroom	Paddystraw mushroom cult.by using loose straw	10	200 Beds	8kg/10 beds	10kg/10 beds	-20	B.E (%)= 16 Wt. of straw= 50 kg	B.E (%)= 10 Wt. of straw= 100 kg	800	1800	1000	2.25	600	1440	840	2.4
Vegetable	Nutritional garden	10	0.02	530	937	76	Vegetable consumption (gm/Day)= 290	Vegetable consumption (gm/Day)= 165	3300	5300	2000	1.6	4500	9370	4870	2.08

Vermicompost	Composting cow dung and leafy materials in the ratio of 3:10 in the vermicompost polythene bag size of 8'x4'x2.5' with release of earthworm (variety: <i>Eisenia foetida</i>) @ 1.0kg per quintal of waste material	07	07	Yield: 12q/bed/year	-	100	Total N:P:K (%) = 1.45:0.71:1.19 CN Ratio: 15.87	-	18000	7500	10500	2.40	-	-	-	-
Total		37														

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women					
Pregnant women					
Adolescent Girl					
Other women					
Children					
Neonatal					
Infants					

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)	% change in major parameter	Labor reduction (man days)	Cost reduction (Rs./ha or Rs./Unit)
-----------------------	------	-------------------------------------	---------------	-----------	-------------------------------------	-----------------------------	----------------------------	-------------------------------------

					Demonstration	Check									
4 row paddy drum seeder	Paddy	4 row paddy drum seeder In Paddy	10	1ha	08	38	1760	7600	26576	4 row paddy drum seeder	Paddy	4 row paddy drum seeder In Paddy	10	1ha	08
Power Weeder	Brinjal	Weeding by dryland power weeder	10	1 ha	5	35	650 labour saving	30	12000	Power Weeder	Brinjal	Weeding by dryland power weeder	10	1 ha	5
Self-propelled rice transplanter	Rice	Transplanting using self-propelled transplanter	10	1 ha	4	38	850% labour saving	34	13600	Self-propelled rice transplanter	Rice	Transplanting using self-propelled transplanter	10	1 ha	4

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Demonstration details on crop hybrids: NA

[illegible]

[illegible]

[illegible]

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1.	Chilli	Chilli var. Arka Khyathi gives higher yield, More return, liked by people, suitable for local market, tolerant to mosaic and wilt disease.
2.	Bittergourd	Foliar application of micro-nutrient mixtures in Bitter gourd increased the size of fruit, reduced deformity shape and yielded more, more demand in market.
3.	Tomato	Tomato var. Arka Abhed gives higher yield, No wilt and leaf curling seen, more demand in Cuttack and Paradeep market.
4.	Brinjal	Integrated Nutrient Management gives more yield, duration of fruiting increased, fruit size is bigger and fruit colour is bright.
5.	Rice	Application of STBR NPK + 5t FYM ha ⁻¹ + Zn @ 2.5 kg ha ⁻¹ although increased input cost it led to substantial increase of income through less incidence of Khaira disease and increase in production
6.	Brinjal	STBR NPK + inoculation with OUAT consortia bio-fertilizers to pre-lime (5%) 300 kg FYM (1:25) incubated for 7 days at 30% moisture and applied in the rhizosphere at the time of transplanting increased the yield and fruit size and farmers accepted the technology
7	Tomato	Good quality of tomatoes with flavored was experienced. Application of sulphur overcome this problem and enhanced yield was obtained
8	Oyster mushroom	Yield of blue oyster is better than other species of Oyster during low temperature, so they are demanding easily availability of this type of spawn due to additional income for their families
9	Paddy straw mushroom	: Farm women are delighted by using loose straw as a byproduct of mushroom cultivation because previously it is used for only cattle feed & fuel purposes. It is cost effective as it reduces cost of cultivation. Demanding development of technology to minimize infection of mushroom raised in loose straw.
10	Nutritional garden	It gives nutrition security for their family members and rotation wise proper utilization of backyard space
11	Vermicompost	In their traditional method, they were not getting good quality of compost for farm use, but using suggested technology including the release of earthworm, they got good quality of compost in granular form(cocoons).They are also using this compost in their backyard farm as well as in cultivable field.

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	24.09.22, 15.11.22, 13.12.2022, 15.12.2022, 14.01.23, 16.02.23	4	300	Chilli, Bittergourd, Tomato, Brinjal, Rice,
2.	Farmers Training	4.08.2022, 20.08.2022; 12.11.2022; 08.01.2022;	11	330	Rice, Green manuring, Nutrient management, Chilli, Bittergourd,

		12.02.2022; 17.08.2022, 18.8.2022, 4.9.2022 15.9.2022, 3.10.2022, 6.10.2022			Tomato, Brinjal
3.	Media coverage	5.12.2022	1	1000	World soil day
4.	Training for extension functionaries	19.11.2022-20.11.2022	1	20	Soil health card use and nutrient management in Greengram crop

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2022 and Rabi 2021-22:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Avg.	D	S	P
1	GROUND NUT	AK-12-24	20.54	17.0	18.0	22.5	Seed treatment with carbendazim + mancozeb @2gm/kg seed and Line sowing, spraying of neem based pesticides, installation of yellow sticky trap for white fly and blue sticky trap for thrips and leaf miner, installation of pheromo	25	10	22.2	18.0	20.1	18	11.6	12

							ne trap for tobacco caterpillar , release of trichocar ds for leaf eating caterpillars and spraying of need based pesticide s. (profenop hos + cypermet hrin)								
--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	Seed treatment with carbendazim + mancozeb @2gm/kg seed and Line sowing, spraying of neem based pesticides, installation of yellow sticky trap for white fly and blue sticky trap for thrips and leaf miner, installation of pheromone trap for tobacco caterpillar, release of trichocards for leaf eating caterpillars and spraying of need based pesticides. (profenophos + cypermethrin)	42800	80500	37700	1:1.88	47120	103000	55880	1:2.18

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own	Produce distributed to other	Purpose for which income	Employment Generated (Mandays/household)
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		(kg)		g)	sowing (Kg)	farmers (Kg)	gained was utilized	
1	Groundnut	2010	1800	48	-	-	Family manage	55

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1	. Seed treatment with carbendazim + mancozeb @2gm/kg seed and Line sowing, spraying of neem based pesticides, installation of yellow sticky trap for white fly and blue sticky trap for thrips and leaf miner, installation of pheromone trap for tobacco caterpillar, release of trichocards for leaf eating caterpillars and spraying of need based pesticides. (profenophos + cypermethrin)	Medium Duration ,Good Yield performance, Suitable for Rabi-Summer , Tolerant of Leaf spot .	Bold Seeded	Farmers can use their own seed in future & adopt the low cost technology like seed treatment & Sowing behind the Plough.	No	Yes	-

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
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Variety (G-6)	Leaf lets are light green , 50% Oil content & average yield of 20.6 q/ha.	27.95 % increase yield over local check	Medium Duration (100-105 days) ,Good Yield performance, Suitable for Rabi-Summer , Tolerant of Leaf spot .
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F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Field Visit	14.02.2022	22
2.	Field Day on Groundnut	23.03.2022 (Anolipatna)	50

G. Sequential good quality photographs (as per crop stages i.e. growth & development)



H. Farmers' training photographs

I. Quality Action Photographs of field visits/field days and technology demonstrated.



J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Groudnut	i) Critical input		1,08,000.00	
	ii) TA/DA/POL etc. for monitoring		8080.00	
	iii) Extension Activities (Field day)		2000.00	
	iv) Flex and Banner		720.00	
	v) Audit charges		1200.00	
	Total	1,20,000/-	1,20,000/-	Nil

3.3 Achievements on Training (Including the sponsored and FLD training programmes):

A) Farmers and farm women (on campus)

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

B) Rural Youth (on campus)

[illegible]

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
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others													
Total	6	56	64	120	7	6	23	0	0	0	56	64	120

C) Extension Personnel (on campus)

[illegible]

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
Management in farm animals	1	12	0	15	5	0	5	0	0	0	20	0	20
Livestock feed and fodder production													
Household food security													
Other													
Total	6	70	19	92	14	14	28	0	0	0	87	33	120

D) Farmers and farm women (off campus)

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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
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													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL	69	1097	622	1479	221	130	351	0	0	0	1348	722	2070

E) RURAL YOUTH (Off Campus)

[illegible]

[illegible]

G) Consolidated table (ON and OFF Campus)

[illegible]

[illegible]

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			
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													
Soil fertility management	2	44	-	44	4	12	16	-	-	-	48	12	60
Integrated water management													
Integrated Nutrient Management	3	53	24	77	11	2	13	-	-	-	64	26	90
Production and use of organic inputs	3	65	12	77	8	5	13	-	-	-	73	17	90
Management of	3	80	-	80	10	-	10	-	-	-	90	-	90

[illegible]

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			
Value addition	01	0	27	27	0	02	02	0	0	0	0	30	30
Women empowerment													
Location specific drudgery reduction technologies	01	0	27	27	0	03	03	0	0	0	0	30	30
Rural Crafts													
Women and child care													
Others (mushroom cultivation)	02	0	60	60	0	0	0	0	0	0	0	60	60
Total	8	0	205	205	0	35	35	0	0	0	0	240	240
VI. Agril. Engineering													
Farm machinery & its maintenance													
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													
Others													
Total													
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others													
Total													
VIII. Fisheries													
Integrated fish farming	1	8	2	10	10	10	20				18	12	30
Carp breeding and hatchery management													
Carp fry and fingerling rearing	1	-	23	23	5	2	7				28	2	30
Composite fish culture	7	4	158	162	-	48	48				4	206	210

[illegible]

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
Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL	69	1097	622	1479	221	130	351	0	0	0	1348	722	2070

ii. RURAL YOUTH (On and Off Campus)

[illegible]

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
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others													
Total	6	56	64	120	7	6	23	0	0	0	56	64	120

iii. Extension Personnel (On and Off Campus)

[illegible]

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			
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other													
Total	6	70	19	92	14	14	28	0	0	0	87	33	120

Please furnish the details of training programmes as Annexure in the proforma given below

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total

H) Vocational training programmes for Rural Youth

a) Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self employed after training			Number of persons employed elsewhere
				Male	Female	Total	Type of units	Number of units	Number of persons employed	

*training title should specify the major technology /skill transferred

b) Details of participation

Thematic Area	No. of	No. of Participants	Grand Total
---------------	--------	---------------------	-------------

[illegible]

a) Details of Sponsored Training Programme

[illegible][illegible]

cultivation													
Other													
Total													
Post harvest technology and value addition													
Processing and value addition													
Other													
Total													
Farm machinery													
Farm machinery, tools and implements													
Other													
Total													
Livestock and fisheries													
Livestock production and management													
Animal Nutrition Management													
Animal Disease Management													
Fisheries Nutrition													
Fisheries Management													
Other													
Total													
Home Science													
Household nutritional security													
Economic empowerment of women													
Drudgery reduction of women													
Other													
Total													
Agricultural Extension													
Capacity Building and Group Dynamics													
Other													
Total													
Grant Total													

3.4. A. Extension Activities (including activities of FLD programmes)

[illegible]

Nature of Extension Activity	No. of activities
Newspaper coverage	17
Radio talks	06
TV talks	04
Popular articles	06
Extension Literature	08
Other, if any	00

[illegible][illegible]

[illegible]

Production of Bio-Products

Name of product	Quantity	Value (Rs.)	No. of Farmers benefitted							
	Kg		SC		ST		Other		Total	
			M	F	M	F	M	F	M	F
Bio-fertilizers										
Bio-pesticide										
Bio-fungicide										
Bio-agents										
Vermicompost	18.26 Qtl.				0	0	29	6	47	11
Vermi (<i>Eusinia foitida</i>)	42.10 Kg.	48440	18	5						
Total	18.26 Qtl. 42.10 Kg.	48440	18	5	0	0	29	6	47	11

Production of livestock materials

[illegible]

3.5. b. Seed Hub Programme - “Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India”

i) Name of Seed Hub Centre:

Name of Nodal Officer :	
Address :	
e-mail :	
Phone No. : Mobile :	

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2022						
Rabi 2020-21						
Summer/Spring 2022						
Kharif 2022						
Rabi 2021-2022						

iii) Financial Progress

Fund received (2019-20, 2020-21, 2021-22 and 2022- 23)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2019-20				
2020-21				
2021-22				
2022-23				

iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

3.6. (A) Literature Developed/ Published (with full title, author & reference)

Item	Title	Author's name	Number	Circulation
Research paper				
Seminar/conference/symposia papers				
Books				
Bulletins				
News letter				
Popular Articles				
Book Chapter				
Extension Pamphlets/literature	Krishishree-Quarterly Newsletter	KVK Jagatsinghpur	4	0
Technical reports	Annual report & Action Plan	KVK Jagatsinghpur	2	0
Electronic Publication (CD/DVD etc.)				
TOTAL				

N.B.: Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(B) Details of HRD programmes undergone by KVK personnel:

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Training	Management of FPO	Sasmita Purohit, Scientist (H.Sc)	19.12.2022 to 21.12.2022 (3 days)	DEE,OUAT,BBSR & Dept. of Hort.
2.					
3.					
4.					
5.					
6.					
7.					

3.7. Success stories/Case studies, if any (two or three pages write-up on 1-2 best case(s) with suitable action photographs)

Name of farmer	
Address	
Contact details (Phone, mobile, email Id)	
Landholding (in ha.)	
Name and description of the farm/enterprise	
Economic impact	
Social impact	
Environmental impact	
Horizontal/ Vertical spread	
Good quality photographs (2-3)	

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology

3.9. a. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)

3.10. Indicate the specific training need analysis tools/methodology followed by KVKs

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed

3.11. a. Details of equipment available in Soil and Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
1	Automatic Nitrogen Analyzer with digestion Unit	01
2	KES 08 LE	01
3	KEL VAC VA	01
4	Flame Photometer	01
5	Digital Soil Moisture Meter	01
6	Physical Balance	01
7	All Glass Double Distillation Unit	01
8	Distillation Appts Power Supply	01
9	PH Meter-Micro Controller	01
10	Conductivity Meter	01
11	Rotary Shaker	01
12	Flask Holding Clamp	01
13	Mechanical Stirrer	01
14	Bouycocus Hydrometer	01
15	Hot Air Oven (Digital)	01
16	Thermometer	01
17	Water Quality Analyzer	01
18	Vortex Shaker	01
19	Magnetic Stirrer with Hot Plate	01
20	Wooden Geological Hammer	01
21	Sieve Brassframe	01

22	Keen Cup	01
23	Soil Moisture Sample Box	01
24	Soil Agar Screw Type	01

3.11.b. Details of samples analyzed so far :

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (in Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
0	952	952	3324	26	0

3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1.	Celebration & Distribution of SHC	200	20	Dist. Collector Parul Pattawar, ATMA chairman	50	50

3.12. Activities of rain water harvesting structure and micro irrigation system

No of training programme	No of demonstrations	No of plant material produced	Visit by the farmers	Visit by the officials

3.13. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology

3.14. RAWE/ FET programme - is KVK involved? (Y/N)

No of student trained	No of days stayed
25	5

ARS trainees trained	No of days stayed

3.15. List of VIP visitors (Minister/ MP/MLA/DM/VC/Zila Sabhadipati/Other Head of Organization/Foreigners)

Date	Name of the person	Purpose of visit
31.05.2022	Ex-MP ()	To attend the programme on "PM Garib Kalyan Jojana"

4. IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Demonstration of herbicide Oxyfluorofen (Zargon) in Okra	70	60	54800/ha	64600/ha
Demonstration of Onion variety "Bhima Super"	62	40	47600/ha	60400/ha
Demonstration of French bean variety "Pusa Parvati" :	56	80	35900/ha	42200/ha
Demonstration of watermelon variety "Arka Jyothi" :	42	70	38150/ha	46500/ha
Demonstration on rearing of white pekin ducks for meat purpose	22	60	8000/100 nos	12000/100 no.
Demonstration on backyard poultry in post adverse climatic situations	170	80	6000/100 nos.	12000/no.
Demonstration of scented rice var."Nua kalajira"	16	60	46900/ha	54200/ha
Demonstration on application of Nimin coated urea in low land paddy	112	70	6000/ha	10000/ha
Demonstration of herbicide 'Oxyfluorofen' in brinjal	10	50	54800	64600
Demonstration of Marigold var."Siracole"	10	40	47600	60400
Demonstration on management of Blast in Rice	10	80	59200	74350
Demonstration on management of BPH in Rice	10	80	54400	57120
Demonstration on management of YMV in Okra	10	60	62000	74000
Demonstration on management of tobacco caterpillar in Cauliflower	10	60	54800	64600
Demonstration on zinc application in rice	10	120	39708/ha	31896/ha
Demonstration on INM in greengram	10	50	24800/ha	16490/ha
Demonstration on INM in brinjal	10	75	292200/ha	198750/ha
Demonstration on sulphur application in tomato	10	65	137150/ha	111600/ha

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

Horizontal spread of technologies			
Technology	Horizontal spread		
	No. of villages	No. of farmers	Area in ha/no

Demonstration of herbicide Oxyfluorofen (Zargon) in Okra	06	18	2.6
Demonstration of Onion variety “Bhima Super”	08	54	32
Demonstration of French bean variety “Pusa Parvati” :	07	82	16.8
Demonstration of watermelon variety “Arka Jyothi” :	05	65	9.0
Demonstration on rearing of white pekin ducks for meat purpose	4	10	250
Demonstration on backyard poultry in post adverse climatic situations	90	780	450
Demonstration of scented rice var. “Nua kalajira”	07	42	22.0
Demonstration on application of Nimin coated urea in low land paddy	26	282	56
Demonstration of herbicide ‘Oxyfluorofen’ in brinjal	9	45	12
Demonstration of Marigold var. “Siracole”	2	16	2.0
Demonstration on management of Blast in Rice	56	242	82
Demonstration on management of BPH in Rice	48	231	74
Demonstration on management of YMV in Okra	12	86	24
Demonstration on management of tobacco caterpillar in Cauliflower	6	72	16
Demonstration of Self propelled rice transplanter	35	61	34
Demonstration of paddy power weeder	4	26	12

Give information in the same format as in case studies

4.3. Details of impact analysis of KVK activities carried out during the reporting period

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms

4.4. Details of innovations recorded by the KVK

Thematic area	
Name of the Innovation	
Details of Innovator	
Back ground of innovation	
Technology details	
Practical utility of innovation	

4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	Poultry Hatching unit–cum Rearing and Feed Supply Centre
Name & complete address of the entrepreneur	Sri Bipin Bihari Pradhan Village - Bagoi GP - Bagoi Block - Kujanga Dist – Jagatsinghpur Mob - 9937212305
Role of KVK with quantitative data support:	Sri Pradhan was selected for the on farm trial programme on backyard poultry in the financial year 2014-15 & 2015-16. Before inducting Sri Pradhan was given intensive skill development programs on Scientific

	Poultry farming and management practices and low cost feed formulation of poultry from KVK, Jagatsinghpur. He also attended a lot of various awareness programmes and exposure visits to private poultry farms for gaining first hand experiences. KVK, Jagatsinghpur distributes 20 nos. Of Vanaraja and 20 nos. of Pallishree colour birds to him after 21 days of brooding programme. Dewarming and vaccination bird were done by Mr. Pradhan with technological back stopping by the Scientist of the KVK. Besides, he was linked with line department for govt. subsidy and also with bank for loan.
Timeline of the entrepreneurship development	Body weight of Vanaraja poultry at 52 weeks of age for male was about 3.6 kg while for female it was about 2.5 kg. and incase of Pallishree the body weight of male was 2.95 kg and 2.3 kg for female. Vanaraja produces 103-110 eggs and Pallishree produces 150-160 eggs per year and age of first egg laying of these breeds is almost similar i.e. 175-180 days by the time Sri Pradhan started to brood fertile egg of both Vanaraja and Pallishree by using his local hen.
Technical Components of the Enterprise	Backyard poultry farming with rural improved breed Breed upgradation by crossing these two breeds Hatching eggs of both Vanaraja and Pallishree by using local hen Supply chicks and fertile eggs of improved rural poultry breed
Status of entrepreneur before and after the enterprise	Sri Bipin Bihari Pradhan has got a net profit of 65,245/- by selling ready bird, table egg and newly hatched chicks from each unit and first batch.
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Sri Pradhan an un-employed rural youth paved the way for other un-employed youths as well as farmers and farm women to take up poultry rearing of improved breeds like Vanaraja and Pallishree as a viable rural entrepreneurship to generate low input and high out put venture for sustainable livelihood development which can be achieve within a very short period of time.
Horizontal spread of enterprise	80 nos. of practicing women community from nearby 8 villages are now started backyard poultry farming with rural improved poultry breed.

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Dept of Agriculture /ATMA	Technology dissemination ,Capacity Building, Technology Sharing
Dept of Horticulture	Technology dissemination ,Capacity Building, Technology Sharing
Dept of Veterinary science	Veterinary Services, Training of farmers/ paravets, Backyard poultry farming, Animal health camp
Dept of Fisheries	Technical information, procurement of fingerlings, Linking beneficiaries of KVK
Odisha livelihood Misson	Backyard poultry farming, Small ruminant production
NABARD	Formation of Krishak club
NHM	Linking beneficiaries of KVK

ICAR-NRRI/CIFA/CHES/CTCRI/CIWA	Dairy farming,
CPDO/IPDP	Backyard poultry farming
FODDER FARM, BHUBANESWAR	Fodder slip/ roots supply, fodder cultivation
AICRP-FOODDER/POULTRY	Backyard poultry farming, fodder cultivation

Name of organization	Nature of linkage

5.2. List of special programmes undertaken during 2022 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies **(information of previous years should not be provided)**

a) Programmes for infrastructure development

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)

(b) Programme for other activities (training, FLD, OFT, Mela, Exhibition etc.)

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1. Performance of demonstration units (other than instructional farm)

Sl. No.	Name of demo Unit	Year of estt.	Area(Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety/ breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Poultry	2011	100	Rainbow Rooster, Pallishree	Developed chick	6500	3,80,000	4,19,000	Developed chicks supplied for backyard rearing
2.	Goatary	2011	100	Sirohi	Breeding buck	1	10000		Due for culling/ Replacement
3.	Dairy	2017	100	Cross bred cow	Milk	4350 Kg	70000	128000	
4.	Fodder	2017	2000	Hybrid Napier, Guinea, Setaria, para	Green fodder	150 quintal	4000	8000	For feeding cows of demo unit

				grass, Signal grass, Green panic, Sorghu m, Maize, Cow pea					
5	Ver mi- com post	20 11	50	Vermin	comp ost	20	10 00	10000	Used in crop cafetari a

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Paddy	2.7.2022	10.12.22	3	Gayatri	Foundatio n	117.2	213500	321000	Selling will be done in May2022
Paddy	5.7.2022	15.12.22	4	Kalac hampa	Foundatio n	146.2	285400	428000	Selling will be done in May2022
Brinjal			30,723	Swarna Shyamli		30,723	24,680	76,807.50	Public sale, FLD/OF T, SCSP
Tomato			30592	Arka Rakshak		30592	28,420	76,480.00	
Chilli			30550	Arka Meghana		30550	24,340	76,375.00	
Cauliflow er			20443	Arka Kanti		20443	24,260	51107.50	
Cabbage			18400	Konark		18400	24,460	46000.00	
Drumstic k			1835	ODC - 3		1835	14,200	27,525.00	
Papaya			832	Red lady		832	12,880	16640.00	

6.3. Performance of Production Units (bio-agents / bio-pesticides/ bio-fertilizers etc.,)

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermi compost	18.26 Qtl.	17000	37900	Public sale,OFT,FLD
2	vermi	42.10 kg	-	42100	Public sale

6.4. Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird /	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	

	aquatics						
1	Poultry Chicks	Vanaraja,Kadaknath,raibow rooster	Day old chicks	9550 nos.			Public sale,OFT, FLD
2	Duckling	White pekin,Khaki campbell	Day old chicks	1700 nos.			Public sale,OFT, FLD
3	Fingerling & Fry	Amur carp,Jayanti rohu,magur	Advanced fry	3,79,000			Public sale,OFT, FLD

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
December 22	50	1 day	Needs renovation
December 22	50	1 day	
December 22	25	1 day	
Total :	125	3 days	

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed:yes

No. of staff quarters:06

Date of completion:2012

Occupancy details:

Months	Q I	Q II	Q III	Q IV	Q V	Q VI
January 2022 to December 2022	Filled	Filled	Filled	Filled	Filled	vacant

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Current Account (KVK Contingency)	State Bank of India	Rahama Branch	11297400655
Current Account (Revolving fund)	State Bank of India	Rahama Branch	30773631818

7.2. Utilization of funds under CFLD on Oilseed (Rs. In Lakhs)

Item	Released by ICAR		Expenditure		Unspent balance as on -
	Kharif	Rabi	Kharif	Rabi	

7.3. Utilization of funds under CFLD on Pulses (Rs. In Lakhs)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2013
	Kharif	Rabi	Kharif	Rabi	

2019.5. Utilization of KVK funds during the year 2022-23 (Not audited)

Sl.No	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	1,33,00,000.00	1,33,00,000.00	
2	Traveling allowances	1,30,000.00	97,500.00	0.00
3	HRD	30,000.00	22,500.00	0.00
4	Contingencies			
A	OE & POL	5,20,000.00	2,05,000.00	2,05,000.00
B	Training & Training Material	3,90,000.00	3,60,000.00	3,60,000.00
C	FLD	1,95,000.00	1,80,000.00	1,80,000.00
D	OFT	1,95,000.00	1,80,000.00	1,80,000.00
E	SCSP	11,00,000.00	8,25,000.00	8,25,000.00
F	Swachhta Expenditure	16,695.00	16,695.00	16,695.00
J	CFLD (Oil seed & pulses)	2,10,000.00	2,10,000.00	2,10,000.00
TOTAL (A)		1,65,04,000.00	1,57,95,400.00	1,51,50,000.00
B. Non-Recurring Contingencies				
1	Non-Recurring (Library)	10,000.00	10,000.00	10,000.00
TOTAL (B)		10,000.00	10,000.00	10,000.00
C. REVOLVING FUND		0.00	0.00	0
GRAND TOTAL (A+B+C)		1,65,14,000.00	1,58,05,400.00	1,51,60,000.00

7.5. Status of revolving fund (Rs. in lakh) for last three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2018-19	2,94,980.00	11,05,320.00	7,25,453.60 + 2,73,265.20 (Returned to DEE)	4,01,581.30
2019-20	40,1581.3	9,71,174.00	5,91,156.49 + 4,50,000.00 (Returned to DEE)	3,31,598.81
2020-21	3,31,598.81	14,80,657.00	7,78,403.00 + 4,00,000.00 (Returned to DEE)	6,33,852.81
2021-22				

2022-23	1			
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- 7.6. (i) Number of SHGs formed by KVKs
(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities
(iii) Details of marketing channels created for the SHGs

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	With both

8. Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)

8.2. Prevalent diseases in Livestock/Fishery

Name of the disease	Species affected	Date of outbreak	Number of death/ Morbidity rate (%)	Number of animals vaccinated	Preventive measures taken in pond (in ha)

9.1. Nehru Yuva Kendra (NYK) Training

Title of the training programme	Period		No. of the participant		Amount of Fund Received (Rs)
	From	To	M	F	

9.2. PPV & FR Sensitization training Programme

Date of organizing the programme	Resource Person	No. of participants	Registration (crop wise)	
			Name of crop	No. of registration

9.3. mKisan Portal (National Farmers' Portal/ SMS Portal)

Type of message	No. of messages	No. of farmers covered
Crop	5	
Livestock	3	
Fishery	4	
Weather	2	
Marketing	4	
Awareness	4	
Training information	1	
Other	0	
Total	23	15142

9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	
2.	No. of farmers registered in the portal	
3.	Mobile Apps developed by KVK	
4.	Name of the App	
5.	Language of the App	
6.	Meant for crop/ livestock/ fishery/ others	
7.	No. of times downloaded	

9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office		
2. Basic maintenance		
3. Sanitation and SBM		
4. Cleaning and beautification of surrounding areas		
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste		
6. Used water for agriculture/ horticulture application		
7. Swachhta Awareness at local level		
8. Swachhta Workshops		
9. Swachhta Pledge		
10. Display and Banner		

11. Foster healthy competition		
12. Involvement of print and electronic media		
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)		
14. No of Staff members involved in the activities		
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (in details)		
Total		

9.6. Observation of National Science day

Date of Observation	Activities undertaken

9.7. Programme with Seema Suraksha Bal/ BSF

Title of Programme	Date	No. of participants

9.8. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used

Give good quality 1-2 photograph(s)

9.9. Details of 'Pre-Rabi Campaign' Programme

Date of programme	No. of Union Ministers attended the programme	No. of Hon'ble MPs (Loksabha/Rajyasabha) participated	No. of State Govt. Ministers	Participants (No.)							Coverage by Door Darshan (Yes/No)	Coverage by other channels (Number)
				MLAs Attended the programme	Chairman ZilaPanchayat	Distt. Collector/DM	Bank Officials	Farmers	Govt. Officials, PRI members etc.	Total		

9.10. Details of Swachhta Hi Suraksha programme organized

Sl. No.	Activity	No. of villages	No. of Participants	No. of VIPs	Name (s) of VIP(s)
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		Involved			
1	Cleaning office premises, Cleaning village public places, utilize waste materials into compost pit	5	196	10	Nil

9.11. Details of Mahila Kisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Mahila Kisan Divas	4	50	0	0

9.12. No. of Progressive/ Innovative/ Lead farmer identified (category wise)

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1	Sanjeet Mohanty	At- Khadala G.P : Bodhei Block: Kujanga, Dist-Jagatsinghpur Mob:9439082531	Farm mechanization
2	Laxman Sethi	At-Gamhapur, P.O-Redhua Block-Raghunathpur Dist-Jagatsinghpur Mob:9776231866	Intensive Vegetable cultivation
3	Muralidhar Behera	At- Bagoi, Kujanga, Jagatsinghour Mob -9438434252	Pulse production through farmers producer group
4	Mr. Saurav Biswal	At/P.O-Tulanga, Block-Tirtol Dist-Jagatsinghpur Mob:9237073446	Composite fish farming
5	Mr. Trilochan Mandal	At/P.O-Kunjakoti Block-Erasama Dist-Jagatsinghpur Mob:9937541303	Shrimp farming

6	Mr. Zakir Hussain	At/PO-Samang Block-Jagatsinghpur Dist-Jagatsinghpur Mob:9776707786	Poultry farming (Colour bird)
7	Mr. Jagannath Das	At-Balia, P.O-Anakhia, Block-Biridi, Dist-Jagatsinghpur Mob:933778214	Dairy farming
8	Mr. Rajib Rath	At-Putting P.O-Gopalpur Block-Tirtol Dist-Jagatsinghpur Mob:9658139870	Mushroom Spawn Production
9	Mr. Prafulla Chandra Jena	At-Bijipur, P.O-Sankheswar, Block-Tirtol Dist-Jagatsinghpur Mob:9437373297	Hi-tech Horticulture
10	Nrusingha Charan Behera	At/P.O -Teramanpur, Block-Kujang, Dist-Jagatsinghpur Mob:9938145944	Intensive Vegetable Cultivation
11	Latika Swain	At/P,O-Krushnachandrapur Block-Tirtol Dist-Jagatsinghpur	Value added products
12	Sadananda Sahoo	At/PO-Taladanda, Block-Kujanga, Dist-Jagatsinghpur Mob:9438702494	Pond based IFS

9.13. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.			
2.			
3.			

9.14. Resource Generation:

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created

9.15. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning

9.16. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK

10. Report on Cereal Systems Initiative for South Asia (CSISA)

a) Year:

b) Introduction / General Information:

	Title	Objective	Treatment details	Date of sowing	Replication	Result with photographs
Experiment 1						
Experiment 2						
Experiment 3						
...						
..						
Others (If any)						

11. Details of TSP

a. Achievements of physical output under TSP during 2022-2023

Programmes	Physical achievements
Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)	
On-farm trials (Number)	
Frontline demonstrations (Number)	
Farmers training (in lakh)	
Extension personnel training (in lakh)	
Participants in extension activities (in lakh)	
Seed production (in tonnes)	
Planting material production (in lakh)	
Livestock strains and fingerlings production (in lakh)	
Soil, water, plant, manures samples testing (in lakh)	
Provision of mobile agro – advisory to farmers (in lakh)	
No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)	

b. Fund received under TSP in 2022-23 (Rs. In lakh):

c. Achievements of physical outcome under TSP during 2022-2023

Sl. No.	Description	Unit	Achievements
1	Change in family income	%	
2	Change in family consumption level	%	
3	Change in availability of agricultural implements/ tools etc.	No. per household	

d. Location and Beneficiary Details during 2022-2023

District	Sub-district	No. of Village covered	Name of village(s) covered	ST population benefitted (No.)		
				M	F	T

12. Progress report of NICRA KVK (Technology Demonstration component) during the period
(Applicable for KVKs identified under NICRA)

Natural Resource Management

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted				Remarks
				SC	ST	Other	Total	

				M	F	M	F	M	F	M	F	T	
Green manuring (dhaincha) in rice	10	10	2	2				8		10			
Straw Mulching in Turmeric	12	12	0.50					5		5			
Renovation of common pond for fish production	2	2	1.0										
Vermi-compost from biodegradable wastes	12	12	12 units	3		3		9		9	12		
Sprinkler irrigation in Greengram	5	5	2.5					5		5	5		

Crop Management

Name of intervention undertaken	Area (ha)	No of farmers covered / benefitted										Remarks	
		SC		ST		Other		Total					
		M	F	M	F	M	F	M	F	T			
Rice (Var: Luna Subarna)	2.0	1				9		10		10			
Rice (Var: Luna Barihal)	2.0	4				6		10		10			
Rice (Var: Swarna Sub-1)	6.0	8				12		20		20			
Rice (Var: CR 1009 Sub-1)	6.0	3				17		20		20			
Green gram (var.: Virat)	2.0	2				8		10		10			
Nutrient management in greengram	5.0	8				12		20		20			
IPM in greengram	5.0	6				14		20		20			
Cultivation of Turmeric (variety : Roma)	0.5	0				10		10		10			
Cultivation of Cucumber(variety :Kumud)	0.8	1				9		10		10			
Cultivation of Okra (variety: Radhika F1)	1.0	3				7		10		10			

Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of units	Area (ha)	No of farmers covered / benefitted										Remarks
				SC		ST		Other		Total				
				M	F	M	F	M	F	M	F	T		
Vanaraj Poultry poultry	350 nos.	15		2	5	0	0	3	2	5	7	12		
Khaki Cambel duck	150 nos.	7		0	5	0	0	5	2	5	7	12		
Whitepkin duck	100 nos.	5		2	0	0	0	3	0	5	0	5		

Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	
Mushroom	15	50 units		12				22		34	34	
Vegetable seedlings raising under low cost polytunnel	2	2		4				6		10	10	
Backyard Nutritional garden	4	0.8	1	5	0	0	5	2	6	7	13	

Capacity building

Thematic area	Topic of the training	No. of Courses	No. of beneficiaries		
			Male	Female	Total
Natural Resource Management	Management of Custom hiring Centre	1	24	6	30
	Green manuring to improve soil fertility	1	21	9	30
	Technique of vermicompost production	1	14	16	30
Crop Management	Management of flood tolerance variety of rice	1	28	2	30
	Use of secondary and micronutrient management in Cucumber	1	22	8	30

	Management of saline soil	1	19	11	30
Nutrient Management	Use of Biofertilizer in pulse crop	1	30	-	30
	INM in Coconut	1	24	6	30
	INM in Brinjal	1	22	8	30
	Use of soil health card for balance dose of manure and fertilizer application	1	24	6	30
	Management of micronutrient deficiency in rice crop	1	21	9	30
Crop Diversification	Cultivation of turmeric	1	26	4	30
Resource conservation Technology		.	.	.	.
Pest and disease management	IPM in greengram	1	20	10	30
	Management of Neck blast in rice	1	24	6	30
	Application of chemicals for vector control in green gram	1	26	4	30
Nursery raising	Nursery raising techniques of seedlings under low cost poly house	1	13	17	30
Employment Generation	Bee Keeping	1	22	8	30
Livestock and Fishery Management	Mixed culture of Amur Carp along with IMC	1	8	22	30
	Composite pisciculture	1	14	16	30
Fodder and feed management	Effective feed management in fish culture pond	1	5	25	30
Lac cultivation	.	.	.	.	.
Farm implements and machineries	Use of Power Weeder for weeding	1	30	0	30
	Use of Mini Rice Mill	1	24	6	30
Value addition	Preparation of value added products from Fish and Prawn	1	0	30	30
	Planning, layout and designing of nutritional garden	1	0	30	30
Others if any	Importance of Natural farming in vegetable crops	1	23	7	30

Detailed report should be provided in the circulated Performa

13. Awards/Recognition received by the KVK

Sl. No.	Name of the Award	Year	Conferring Authority	Amount	Purpose

Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose

14. Any significant achievement of the KVK with facts and figures as well as quality photograph

15. Number of commodity based organizations/ farmers' cooperative society/ FPO formed/ associated with during last one year (Details of the group/society may be indicated)

Sl. No.	Name of the organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator

16. Integrated Farming System (IFS)

Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year

17. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Varietal substitution with Barshadhan Line transplanting STBF application	Varietal substitution with Barshadhan Line transplanting STBF	27775	05	

		application			
2	summer cultivation of (green gram)	Cultivation of Green gram HYV : IPM 02-14 by broadcasting 20:40:20 kg NPK / ha Treatment with rhizobium and PSB	8540	05	
3	Paddy straw mushroom (2 beds/day for 4 mths) and cultivation of Oyster Mushroom (2 bags /day for 2 mths)	• Cultivation of Paddy straw mushroom -strain OSM-11 with proper management practices	19000	15	
4	stocking density in Farm pond	Pond and feed management with proper stocking density	20000	05	

18. Report on Digital Farming Initiatives in Agriculture/ Digital Ag. Extension Service

	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
Phase	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I (up-to 15.03.2018)					
II (up-to 24.04.218)					
Total					

19. Information on Visit of Ministers to KVKs, if any

Date of Visit	Name of Hon'ble Minister	Name of Ministry	Salient points in his/ her observation (2-3 bulleted points)

20. a) Information on ASCI Skill Development Training Programme, if undertaken during 2022

Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants						Whether uploaded to SIP Portal (Y/N)	Fund utilized for the training (Rs.)
				SC		ST		Other			
				M	F	M	F	M	F		

b) Information on Skill Development Training Programme (Other than ASCI or less than 200 hrs., if any) if undertaken during 2022

Thematic area of training	Title of the training	Duration (in hrs.)	No. of participants								Fund utilized for the training (Rs.)
			SC		ST		Other		Total		
			M	F	M	F	M	F	M	F	T

21. Information on NARI Project (if applicable)

Name of Nodal Officer	No. of OFT on specified aspects	Title(s) of OFT	No. of FLD on specified aspects	No. of capacity development programme on specified aspects	Total no. of farm women/ girls involved in the project	Details of Issues related to gender mainstreaming addressed through the project

22. Information on Krishi Kalyan Abhiyan Phase-III, if applicable

a) Training achievements

Name of KVK	Period	No. of Training on diversified farming practices for doubling farmers' income organized	No. of farmers trained	
			Male	Female
	01.01.2022 to 31.12.2022			

b) Other achievements

Sl.	Particulars	January, 2022
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No.		to December, 2022
1	Number of demonstrations other than oilseeds and pulses	
2	Number of demonstrations on oilseed crops	
3	Number of demonstrations on pulse crops	
4	Number of farmers trained	
5	Number of participants in Extension activities	
6	Number of farmers for Mobile Advisory	
7	Production of seeds (in quintal)	
8	Production of planting material (Number)	
9	Number of soil sample tested	
10	Number of farmers covered in Climate Resilient villages	
11	Number of farm families covered in Farmer FIRST project	
12	ARYA project: Number of youth trained	
13	ARYA project: Number of entrepreneurial activities started	
14	Number of farm families in DFI villages	

23. Any other programme organized by KVK, not covered above

Sl. No.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants

24. Good quality action photographs of overall achievements of KVK during the year (best 10)



ANNEXURE- I

(Details of training programmes)

Discipline	Clientel e	Title of the training programme	Durati on in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Mal e	Femal e	Tota l	Mal e	Femal e	Tota l
Agricultural Engineering	Farmers & Farm women	Use of advanced Field Preparation Machinery	01	OFF	22	08	30	4	1	5
Agricultural Engineering	Farmers & Farm women	Use of Rotavator and safety measures	01	OFF	17	13	30	6	0	6
Agricultural Engineering	Farmers & Farm women	Use of rice Transplanter	01	OFF	20	10	30	3	1	4
Agricultural Engineering	Farmers & Farm women	Use of Power Sprayer	01	OFF	15	15	30	8	03	11
Agricultural Engineering	Farmers & Farm women	Use of Solar Pump	01	OFF	24	6	30	12	0	12
Agricultural Engineering	Farmers & Farm women	Use of Power Weeder for weeding	01	OFF	30	0	30	4	0	4
Agricultural Engineering	Farmers & Farm women	Use of Tractor Operated Axial Flow Paddy Thresher	01	OFF	24	6	30	4	4	8
Agricultural Engineering	Farmers & Farm women	Use of Mini Dal Mill	01	OFF	22	8	30	3	2	5
Agricultural Engineering	Farmers & Farm women	Use of Mini Rice Mill	01	OFF	17	13	30	3	2	5
Agricultural Engineering	Farmers & Farm women	Use of Coconut Dehusker	01	OFF	30	0	30	4	0	4
Agricultural Engineering	Farmers & Farm women	Use of Groundnut Decorticator	01	OFF	29	1	30	0	0	0
Agricultural Engineering	Farmers & Farm women	Use of Drip Irrigation in fruits and vegetables	01	OFF	27	3	30	7	1	8
Agricultural Engineering	Rural Youth	Tractor System and Control	02	ON	20	0	20	6	0	6
Agricultural Engineering	Extension	Farm Mechanization	02	ON	16	4	20	3	1	4

	Personal	for commercial agriculture								
Fishery	Farmers & Farm women	Pre-stocking management in fish culture pond	01	OFF	30	-	30	-	-	-
Fishery	Farmers & Farm women	Integrated fish farming ¹	01	OFF	15	15	30	-	-	-
Fishery	Farmers & Farm women	Nursery rearing method in fish culture pond	01	OFF	7	23	30	-	-	-
Fishery	Farmers & Farm women	Culture practice of Jayanti Rohu along with IMC	01	OFF	9	18	27	3	-	3
Fishery	Farmers & Farm women	Culture practice of Amur carp along with IMC	01	OFF	25	5	30	-	-	-
Fishery	Farmers & Farm women	Liming and manuring in fish culture pond and its importance	01	OFF	30	-	-	-	-	-
Fishery	Farmers & Farm women	Culture of Freshwater prawn along with mix carp	01	OFF	14	16	30	-	-	-
Fishery	Farmers & Farm women	Culture of catfishes in backyard pond	01	ON	30	-	30	-	-	-
Fishery	Farmers & Farm women	Yearling culture and its benefits in fish farming	01	ON	30	--	30	-	-	-
Fishery	RY	Breeding methods of ornamental fish and its culture practice	02	ON	9	11	20	-	-	-
Horticulture	F/FW	Production technology of Greater yam	1	Off	22	8	30	6	2	8
Horticulture	F/FW	Nutrient management in Yard long bean	1	Off	26	4	30	8	2	10
Horticulture	F/FW	Method of application of	1	Off	30	0	30	8	0	8

		micro-nutrient in Bitter gourd								
Horticulture	F/FW	Okra hybrids with their characteristics.	1	Off	30	0	30	7	0	7
Horticulture	F/FW	Planting technique of Arecanut	1	On	28	2	30	12	1	13
Horticulture	F/FW	Nutrient management in bearing coconut.	1	Off	30	0	30	6	0	6
Horticulture	F/FW	Nutrient management in Chili	1	Off	26	4	30	7	1	8
Horticulture	F/FW	HYP of Onions with their characteristics.	1	Off	25	5	30	5	2	7
Horticulture	F/FW	Technique of Nursery raising in onion.	1	Off	26	4	30	7	2	9
Horticulture	F/FW	Method of Application of Arka Microbial Consortium in cabbage	1	Off	30	0	30	8	0	8
Horticulture	F/FW	Technique of raising vegetable seedlings using pro-trays.	1	Off	28	2	30	6	0	6
Horticulture	F/FW	Planting technique of Papaya & Drumstick.	1	On	30	0	30	8	0	8
Horticulture	RY	Vegetable seedling raising technique using pro-trays.	1	On	16	0	16	4	0	4
Horticulture	IS	Protected cultivation of High value vegetable crops.	1	On	14	3	17	2	1	3
Home Science	F/FW	Household food security by kitchen gardening and nutrition gardening	01	OFC						

Home Science	F/FW	Design and development of low/minimum cost diet	01	OFC	-	30	30	-	21	21
Home Science	F/FW	Designing and development for high nutrient efficiency diet	01	OFC	0	30	30	0	05	05
Home Science	F/FW	Minimization of nutrient loss in processing	01	OFC	0	30	30	0	02	02
Home Science	F/FW	Value addition	01	OFC	0	30	30	0	3	3
Home Science	F/FW	Location specific drudgery reduction technologies	01	OFC	0	30	30	0	2	2
Home Science	F/FW	mushroom cultivation	02	OFC	0	60	60	0	0	0
Home Science	IS	Gender mainstreaming through SHG	01	ONC	-	20	20	-	04	04
Home Science	RY	Preparation of value added products from Oyster mushroom	01	ONC	08	12	20	-	02	02
Soil Science	F/FW	Use of secondary and micronutrients management in tomato crop	02	OFC	26	14	40	14	6	20
Soil Science	F/FW	Management of micronutrient deficiency in rice crop	01	OFC	29	01	30	0	0	0
Soil Science	F/FW	Technique of Soil Sample collection	01	OFC	08	10	18	12	0	12
Soil Science	F/FW	Method of compost preparation	01	OFC						
Soil Science	F/FW	Management of acid soil	01	OFC	28	0	28	2	0	2
Soil Science	F/FW	Use of micronutrient in cole crop	01	OFC	21	0	21	09	0	09
Soil Science	IS	Use of soil health card and nutrient management	02	ONC	28	06	34	06	0	06
Soil Science	RY	Technique of vermicompost	02	ONC	34	0	34	06	0	06

		production								
Animal Science	F/FW	Nutritional deficiency diseases of poultry birds	01	OFC	9	21	30	03	08	11
Animal Science	F/FW	Management of Dairy cows in post-partum period	01	OFC	07	23	30	02	03	05
Animal Science	F/FW	Ration Balancing in Dairy Cows	01	OFC	23	07	30	0	0	0
Animal Science	F/FW	Management practices for rearing of female calves.	01	OFC	09	21	30	02	11	13
Animal Science	F/FW	Duck farming.	01	OFC	23	7	30	09	03	12
Animal Science	F/FW	Vaccination and disease management in poultry birds	01	OFC	12	18	30	05	07	12
Animal Science	F/FW	Balanced feeding of birds in backyard system of rearing	01	OFC	16	14	30	04	11	15
Animal Science	F/FW	Fodder cultivation: Hybrid napier, Maize, Guinea grass, cowpea, rice bean.	01	OFC	29	1	30	04	01	05
Animal Science	F/FW	Feeding and Housing management in goat farming.	01	OFC	11	19	30	04	05	09
Animal Science	F/FW	Vaccination and diseases management in goat farming.	01	OFC	13	17	30	09	02	11
Animal Science	IS	Antibiotic resistance in livestock and poultry	02	ONC	19	1	20	05	01	06

ANNEXURE-II

ROCEEDINGS OF 18th SCIENTIFIC ADVISORY COMMITTEE MEETING KVK, JAGATSINGHPUR

The 18th SAC meeting of KVK, Jagatsinghpur was held on dated 30.11.2022 at 10.30 am in KVK premises under the Chairmanship of Dr. P. J. Mishra, Dean Extension Education, OUAT, Bhubaneswar. The members present in the meeting are annexed herewith. After a small introductory remark, the Chairman advised the Senior Scientist and Head to present the achievements and proceedings (Action taken report) of the last SAC meeting as per the agenda.

Agenda-1: Approval of the proceedings of last meeting

The Senior Scientist and Head of KVK, Jagatsinghpur presented the achievements of KVK for Rabi 2021-22 and Kharif 2022. He also presented the proceedings of the 17th SAC meeting held on 09.03.2022 in brief. The Chairman with the consent of all the members of the SAC approved the proceedings.

Agenda-2: Action taken on the recommendations of the 17th SAC meeting

The Senior Scientist and Head presented the following actions taken by the KVK as per the recommendations of the last SAC meeting.

SUGGESTIONS	ACTIONS TAKEN
Management practices should be given importance rather than varietal trials.	- Assessment of Sulphur and Boron for higher yield in cauliflower - Assessment of sulphur application in rice crop for higher yield - Assessment of Integrated Nutrient Management in Okra
Management practices should be given importance rather than varietal trials	- Assessment of management practices against neck blast in rice - Assessment of the improved techniques for cultivation of paddy straw mushroom (<i>V. volvacea</i>) using crumbled straw
Horticulture sector should focus more on management practices like nutrient and disease and pest along with new varietal trials	- Demonstration on INM in Tomato - Demonstration on Foliar application of Polyfeed NPK(19:19:19) in Cauliflower. - Demonstration on Application of Micronutrients mixture in Bitter gourd
Farm machinery trials should include testing and demonstration of new and profitable machines matching to the major cropping systems of the district	- Demonstration on Rice Transplanter - Demonstration on Dry Land Power Weeder in Brinjal - Demonstration on Mini Dal Mill
Trials on micro-nutrient management should be focused	- Assessment of Sulphur and Boron for higher yield in cauliflower - Assessment of sulphur application in rice crop for higher yield
INM and IPM practices should be emphasized for low land rice and vegetables	- Assessment of Integrated Pest Management against serpentine leaf miner in tomato - Demonstration of Integrated management of wilt complex of Brinjal

INM and IPM practices should be emphasized for low land rice and vegetables	- Demonstration of management of Sheath blight in rice. - Demonstration of Integrated management of YMV in Okra
Greengram and Black gram varieties tolerant to YVMV may be demonstrated	Cluster frontline demonstration in Green gram variety IPM-02-14
Management of Stem borer and neck blast in low land rice may be undertaken	- Demonstration of management of Stem borer in rice. - Assessment of management practices against neck blast in rice
Focus should be given on fresh water aquaculture including integrated fish farming and fingerlings production for better income.	- Demonstration on "Mixed culture of Amur Carp along with IMC" in composite carp culture for more yield - Demonstration on " Stunted Fingerlings Production" of Mixed carp to get more profit in pisciculture - Demonstration on Integrated fish farming to get more profit in pisciculture

Agenda-3: Achievements made by KVK

The overall achievement made by KVK, Jagatsinghpur was presented by the Senior Scientist & Head, KVK for Rabi 2021-2022 and Kharif 2022. The KVK has conducted 60 nos. of training programmes for practicing farmers/ farm women involving 1800 trainees, 06 nos. for Rural youths with 120 trainees and 05 nos. of In-service trainings with 100 trainees. The KVK has also conducted 09 no. of OFTs, 21 no. of FLDs, 1 no. of CFLD in farmer's field and a total of 1270 nos. of extension activities.

Some of the achievements of KVK are listed below:

- Application of STBR NPK + Azotobacter, Azospirillum, PSB (1:1:1) @ 4kg each and soil application of B@1kg/ha on INM in tomato against application of N:P₂O₅:K₂O:S (80:40:45)kg/ha in Farmer practice gave 24.05 % higher yield with BCR of 2.74 as against 2.46 in FP .
- Use of STBR NPK + inoculation with OUAT consortia bio-fertilizers to pre-lime (5%) 300 kg FYM (1:25) incubated for 7 days at 30% moisture and applied in the rhizosphere at the time of transplanting for INM in brinjal resulted higher yield (17.60) with BCR of 2.48 as against 2.02 in FP (Application of chemical fertilizers N:P₂O₅:K₂O:B (110:40:45:0) kg/ha.
- Foliar application of Polyfeed NPK increased the size of curd & increased yield (16.35%)
- Soil application of Arka Microbial consortium in Tomato gave higher yield (13.56 %) .
- Chili variety Arka Khyathi gave higher yield (13.56 %) and suitable for Kharif season. Fruits are pungent and have good market demand with BCR of 2.84 as against 2.53 in FP.
- Application of Arka Vegetable special enhanced fruit size and yield in Bitter gourd and gave 19% higher yield.
- Seed treatment with (Metalaxyl + Mancozeb) @ 2gm/kg followed by soil application of *T viridae*@ 5kg /ha at planting with FYM and soil drenching with Carbendazim 0.15% + Streptocycline 0.015% in Demonstration of Integrated management of wilt complex of brinjal increased 54.8% in yield with BCR of 4.4 as against 4.0 in FP (Cultivation of Chilli variety-Selection-1)
- Spraying of Trifloxystrobin 25%+Tebuconazole 50% 75 WG twice after 30 & 60 DAT in Demonstration of management of Sheath blight in rice gave 20.88 % higher yield

- Seed treatment with Imidacloprid 600 FS @ 5 ml / kg seed + Yellow sticky trap @ 50/ha + Neem oil 5 @5ml/lit spray on appearance of white fly + Spraying of Spiromesifen 500 ml/ha and Dinotefuron 20 WG alternatively at 10 days interval in Demonstration of Integrated management of YMV in Okra resulted higher yield (13.04%)
- Soil application of Chloropyriphos dust around the plant at 30 DAG, Placement and spot application of Jaggery(100g), Dichlorovos(2ml and water(1 litre) poison bait(BAT), Installation of Cuelure @ 20 traps/ha and periodic removal and destruction of damaged fruits gave 24.99 % more yield towards Integrated Management of Fruit fly in Bitter gourd.
- Integrated Management of Fruit fly in Bitter gourd reduces the Fruit fly infestation. From 24.8% to 4.7%
- Stocking Catla:Rohu:Amur Carp@ 3:4:3 with stocking density @ 10000 fingerlings /ha in 30 q fish production compared to 21 q production in FP by stocking normal Rohu, Catla and Mrigal
- Stocking IMC Carp Fry with stocking density @ 2lakhs /ha with minimum feeding practice @2% biomass increased profit of 11,000/- with BCR of 3.62 as against 1.8in FP (Culture of IMC to produce Table size fish)
- Cultivation of Oyster mushroom var: *Hypsizyous ulmarious* resulted in 2.3 kg production per bed as compared to 2.0 kg/bad production in the FP by cultivating Oyster mushroom var: *P.sajorcaju*.
- Use of self-propelled Dry Land Power Weeder for weeding and intercultural operation resulted 3.2 % change in yield
- Use of Akola Mini Dal Mill for milling of Greengram resulted field capacity 72 kg/h
- Drip irrigation and fertigation in Okra i.e.Drip irrigation (4 LPH) once in a week, Application of water soluble RDF (N:P:K-125:50:75) with irrigation water resulted 38% increase in yield with BCR of 2.50 as against 1.75 in FP (Ridge and Furrow Irrigation)

Agenda-4: The following action points were suggested by the SAC members:

- Bio-fortified varieties of rice may be introduced
- Management of YVMV in Greengram.
- Nutrient and water management in Greengram to be taken up
- Conduct more activities on BPH, Stem borer management in Paddy as it covers 84,000 ha in Kharif.
- More programme should be taken under Crop Diversification
- Yard long bean variety-Arka Mangala may be taken into FLD programme
- Suitable measures may be taken for Tomato leaf curl virus disease.
- Nutrient aspect of vegetables may be emphasized rather than introduction of new varieties
- Importance should be given on Bio-Floc farming & Ornamental fish farming
- Awareness programme should be conducted on Deworming of Livestock with the help of Line dept.
- More nos. of training should be conducted on value addition, spawn production & package of practice of mushroom cultivation.
- Seed Replacement ratio in rice may be increased.
- Some experiment on Soil salinity may be taken.
- Popularize submergence saline variety of Rabi pulses and vegetables preferably for Kujanga, Balikuda & Erasama Blocks.
- Adoption of new chemicals and new technology for Paddy cultivation
- Select progressive farmers for seed production at villages.
- Focus should be given on Animal Health camp, Poultry farming, use of urea molasses, Preparation of low cost feed for livestock, Azolla cultivation, fodder cultivation in collaboration with line departments.
- Management of Rhinoceros beetle and Spiraling white fly in Coconut

- More nos. of Awareness programme should be conducted on PUSA decomposer & NRRI decomposer
- Focus should be given on fresh water aquaculture including integrated fish farming and value addition of fish for better income.
- Sponsored training may be taken from OLM/ Mission Shakti.
- Various rice harvesting and threshing techniques may be compared for cost saving
- Micro-irrigation techniques may be popularized for in major crops and vegetables
- Mechanization of threshing and harvesting of Greengram may be taken up due to high labour scarcity
- More focus should be given on mechanical seeding, planning and weeding in major crops.

List of Participants:

Sl. No.	Name & Designation	Status
1	Prof. P J Mishra, DEE, OUAT, Bhubaneswar	Chairman
2	Dr. C. M. Khanda, ADR, RRTTS(Central Zone), Bhubaneswar	Member
3	Dr. G.A. K. Kumar, Head, Social Science Division, NRRI, Cuttack	Member
4	Dr. K. S. Das, Principal Scientist, ICAR-ATARI, Kolkata	Member
5	Dr. Bira Kishore Parida , Chief District Agriculture Officer, Jagatsinghpur	Member
6	Mr. Pradeep Ku. Bal, ADH, Jagatsinghpur	Member
7	Dr. Raj Kishore Das, CDVO, Jagatsinghpur	Member
8	Dr. Tapas Ranjan Sahoo,SMS (Agronomy),KVK,Kendrapara	Invitee
9	Mr. Biswa Bhusan Mohanty, DDM,NABARD, Jagatsinghpur	Member
10	Mr. Atanu Ku. Swain, Representative of District Fishery Officer,Jagatsinghpur	Member
11	Mr. Asit Ku. Pradhan,Scientist ,ICAR-NRRI ,Cuttack	Invitee
12	Mr. Chinmaya Rout, Business Manager, ICAR-NRRI ,Cuttack	Invitee
13	Dr. Jibanjit Sen, Senior Scientist & Head, KVK, Jagatsinghpur	Member Secretary
14	Mr. Sarbeswar Swain,Farmer, Saharadia	Invitee
15	Mr. Ananta Charan Jena , Programme Executive AIR, Cuttack	Member
16	Mrs. Priyansi Nayak, DPM, Odisha Livelihood Mission, Jagatsinghpur	Member
17	Tilottama Dash, Executive Body member, NGO-UTSHARGA	Member
18	Mr. Akshaya Kumar Nayak, Big farmer, Village-Mohammadabad, Block-Tirol	Member
19	Mr. Nrusingha Charan Behera, Small farmer, Village-Saharadia, Block-Kujanga	Member
20	Mrs. Nibedita Das, Farm women, Village-Illaspur, Block-Tirol	Member
21	Mrs. Parinita Mohapatra, Village-Sankheswar, Block-Kujanga	Member
22	Mr. Prasant Kumar Panda, District Coordinator, Reliance Foundation	Invitee
23	Mrs. Premasi Nayak, DPM, OLM	Member
24	Mr. Prasant Kumar Jena, DM, APICOL & AEE, Jagatsinghpur	Invitee
25	Smt. Mamata Manjari Pattanaik, Farm woman,Nimakana	Invitee
26	Mr. Ranjeet Kumar Dalai, APO(Representative of GM), Jagatsinghpur	Invitee
27	Smt. Kalyani Barik, Farm woman,Garam	Invitee
28	Mr. Manas Kumar Das, Range Officer, Kujanga	Member
29	Mr. Jatish Mohanty, OTEC Biofloc, Kiranti, Kosti	Invitee
30	Smt. Rinarani Mallick, Farm woman,Garam	Invitee

