

ANNUAL PROGRESS REPORT 2023

(January 2023 to December 2023)



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कृषि विज्ञान केन्द्र
KRISHI VIGYAN KENDRA
BARGARH



ODISHA UNIVERSITY OF AGRICULTURE & TECHNOLOGY

Gambharipali, P.O.-Larambha, Dist-Bargarh, Odisha - 768102

Annual Progress Report 2023
Krishi Vigyan Kendra, Bargarh.

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ANNUAL PROGRESS REPORT

(January 2023 to December 2023)

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, At- Gambharipali, PO- Larambha, Dist. - Baragarh. Pin – 768102,Odisha	-	-	kvkbaragarh.ouat@gmail.com, kvk.bargarh@ouat.ac.in

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

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture & Technology, Bhubaneswar, Odisha	0674- 2397362	0674-2397362	dee@ouat.ac.in deanextensionouat@yahoo.com deanextension_ouat@rediffmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Sri Nrusingh Ch. Barik	-	9437414979	ncbarik57@yahoo.com

1.4. Year of sanction of KVK: 1992

1.5. Staff Position (as on 31stDecember 2023)

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 (I/C)	Mr. Nrusingh Charan Barik	Scientist	Nematology	77500 (Level – 11, Cell – 11)	22.07.2011	Temporary	OBC
2	Subject Matter Specialist	Mrs. Susrita Sahu	Scientist	Home Science	79800 (Level – 11, Cell – 12)	06.06.2010	Temporary	OBC
3	Subject Matter Specialist	Ms. Rukeiya Begum	Scientist	Plant Science	15600-39100 + AGP-6000 (19810)	29.05.2015	Temporary	Other
4	Subject Matter Specialist	Mrs. Sanghamitra Biswal	Subject Matter Specialist	Agril. Engineering	57800 (Level – 12, Cell – 5)	27.07.2022	Temporary	OBC
5	Subject Matter Specialist	Dr. Rahul Dev Behera	Subject Matter Specialist	Soil Science	57800 (Level – 12, Cell – 5)	05.07.2023	Temporary	SC
6	Subject Matter Specialist	Vacant	-	-	-	-	-	-
7	Programme Assistant	Mr. Deepankar Jena	Programme Assistant	Seed Science	42300 (Level – 9, Cell – 7)	06.02.2015	Temporary	Other
8	Computer Programmer	Mr. Sanat Kumar Meher	Programme Assistant	Computer	46200 (Level – 9, Cell – 9)	06.02.2016	Temporary	OBC
19	Farm Manager	Mrs. Prarthana Mohanty	Farm Manager	Horticulture	42300 (Level – 9, Cell – 7)	04.02.2019	Temporary	Other
9	Accountant / Superintendent	Vacant	-	-	-	-	-	-
11	Stenographer	Mr.Sumant Kumar Jally	Steno cum Comp. Operator	-	29600 (Level – 7, Cell – 7)	14.02.2014	Temporary	SC
12.	Driver	Mr. AnirudhhaChhanda	Driver cum Mechanic	-	26800 (Level – 4, Cell – 11)	23.07.2008	Temporary	OBC
13.	Driver	Mr. Jagannath Sahoo	Driver cum Mechanic	-	26800 (Level – 4, Cell – 11)	23.05.2018	Temporary	OBC
14.	Supporting staff	Vacant	-	-	-	-	-	-
15.	Supporting staff	Vacant	-	-	-	-	-	-

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1
2.	Under Demonstration Units	1
3.	Under Crops	9.5
4.	Orchard/Agro-forestry	5
5.	Others with details-pond	1
6.	Swampy land	1
7.	Residential area	1.5
	Total	20

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					√	373.08		ICAR
2.	Farmers Hostel					√	324.15		ICAR
3.	Staff Quarters (6)							not	
4.	Piggery Unit							not	
5	Fencing					√	7217ft		RKVY
6	Rain Water Harvesting Structure							not	
7	Threshing Floor					√	637.22		ICAR
8	Farm Godown					√	92.4		ICAR
9.	Dairy Unit					√	12		ICAR
10.	Poultry Unit							not	
11.	Goatery Unit							not	
12.	Mushroom Lab					√	27		RKVY
13.	Mushroom Production Unit					√	80.4		ICAR
14.	Shade House					√	99		RKVY
15.	Soil Test Lab					√	43.8		ICAR

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
16	Vermi compost Unit					√	80.4		ICAR
17	Plant Health Diagnostics Laboratory					√	42		ICAR
18	Pond					√	4000		ICAR
19	Conference Hall					√	116.2		ICAR
20	Internal Farm Road					√	475 sq.ft		ICAR
21	Irrigation Channel					√			

* 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
Bolero	2023	9,00,000	13830	Good
Tractor	2023	7,50,000	32 (Running Hours)	Good
Motor Cycle	2010	51,000	95,678	Good

C) Equipment & AV aids

Name of Equipment	Year of Purchase	Cost (Rs.)	Present Status	Source of Fund
a. Lab Equipment				
Digital Refractometer	2018	12669	Good	ICAR
Drying Cabinet (Solar)	2018	19898	Good	ICAR
A.C with Stabilizer	2018	67600	Good	ICAR
Crown Cap Sealing Machine (2nos)	2018	5900	Good	ICAR
VacuumSealingMachine	2018	1950	Good	ICAR
Food Processor	2018	4900	Good	ICAR
b. Farm Machinery				
Tractor	2009	420000	Good	ICAR
Power Tiller	2014	170000	Good	ICAR
Power Weeder	2017	85801	Good	ICAR
Power sprayer	2012	9400	Good	ICAR
Drum Seeder	2017	3000	Good	ICAR

Name of Equipment	Year of Purchase	Cost (Rs.)	Present Status	Source of Fund
Paddle Paddy Thresher	2017	6225	Good	ICAR
power pulse thresher	2018	84375	Good	ICAR (Seed Hub)
Seed processing unit with gravityseparator	2018	1099674	Good	ICAR (Seed Hub)
Destoner	2018	152287	Good	ICAR (Seed Hub)
MandwaWeeder	2017	1080	Good	ICAR
Parboiling Drum	2017	5060	Good	Watershed Mission
Seed treating Drum	2017	3445	Good	Watershed Mission
Knapsack Sprayer	2017	2200	Good	Watershed Mission
Battery Operated Sprayer	2017	4410	Good	ICAR
Power Mist Blower	-	-	Good	ICAR
Brush Cutter	2018	27585	Good	ICAR
Hand Winnower	2017	4250	Good	Watershed Mission
Solar Pump	2018	14950	Good	ICAR
Fire extinguisher (2 Nos.)	2019	9912	Good	ICAR
c. AV Aids				
Laptop	2018	50000	Good	ICAR
Laptop	2022	35000	Good	ICAR
LCD Projector	2017	38500	Good	ICAR
LED TV	2018	38691	Good	ICAR
Projection Screen	2018	17900	Good	ICAR
PrintScan cum Copier	2018	14000	Good	ICAR
Solar Light	2018	20499	Good	ICAR
DSLR Digital Camera	2018	47806	Good	ICAR
Digital Camera	2017	14000	Good	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Cultivator	-	-	Good	ICAR
Rotavator	2013	114000	Good	ICAR
M.B. Plough	2013	30,000	Good	ICAR
Zero till Seed cum Fertilizer Drill	2013	47500	Good	ICAR
Land Leveler	2014	19500	Good	ICAR

1.8. Details SAC meeting* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	30.01.24	40	Promotion of third crop in Bargarh District.	➤ 55 kg of sesamum (Smarak from KVK Farm & Kharif CFLD programme) has been collected for demonstration and provided to 25 farmers under SCSP programme during last summer season and cultivated in Lakhanpur area of Ambabhona block and Bargaon of Bargarh Block after harvesting of Potato.	
2			Seedling Blight Disease Management finger millets should include both fungicide and Nutrient treatments	➤ One OFT on Management of Seedling Blight Disease of Finger millet has been done at village Gopalpur involving 10 farmers during last kharif Season with treatments... <i>Trichoderma viridi</i> & <i>Lime</i> . ➤ Three Trainings on IDM in finger millet have been provided to 90 farmers at Shohella, Bijepur & Bhatli Block during last Kharif Season.	
3			Development of region specific crop calendar for Bargarh District with KVK Intervention	➤ One crop calendar showing different crop management windows has been prepared and submitted to CDAO Office for reference	
4			Promotion of suitable poultry breed for backyard.	➤ FLD on Popularization of RIR Chicks has been taken up ➤ 800 chicks of RIR has been provided to 20 farmers under SCSP covering 4 villages khaliapalli, patikarpalli, katapalii & Nalichuan of 3 blocks. ➤ Training has also imparted on Rearing management of improved poultry to 125 Farmers	
5			Expansion of Off season vegetables such as Cauliflower, Tomato for massive cultivation	➤ Cabbage (Pusa Mukta), 3600 cauliflower (Pusa early synthetic, Pusa Deepali), 8000 Tomato seedlings (A. Rakshak, A. Apeksha, A. Vishesa) were supplied to 110 beneficiaries covering 3 blocks of Bargarh district. ➤ OFT On kharif Tomato- Raddish has been conducted involving 7 farmers of Bijepur Block	
6			Crop diversification with pulses and vegetables in paddy areas	➤ 6qtls of Pigeon pea var. LRG-52(CFLD) and 4 qtl of Green gram var. Virat has been supplied to 50 Small pulse growers and 10 seed producers(Seed Hub) for this purpose of 2 blocks Ambabhona and Shohella. ➤ Training was given to 125 no. of beneficiaries on ICM of pulses and IPDM of Vegetables ➤ Sowing by Tractor drawn Seed cum Fertilizer drill has been demonstrated in 3 villages in 32 farmers field by help of CSISA project at Bhatli, Ambabhona & Attabira Block. ➤ Brinjal and Okra seeds 100 kg var. Pusa Shyamala (NSC) & Pusa Bhindi -5(NHRDF) has been supplied to 90 farmers for vegetable production. Under SCSP Programme in Attabira & Shohella Block	
7			Better marketing strategy for vegetables to reduce wastage.	➤ Training was also imparted to 75 no. of beneficiaries spreading the awareness on Grading and Sorting. ➤ Demonstration on Double row Trellis System conducted in 10 Farmers field in 5 hectre area to get vegetables with bright color and good shape under SCSP ➤ Training and demonstration has been imparted on value addition of Vegetables to 125 no. of farm women of 3 blocks in collaboration with NGO at Paikamal, Sohela, Gaisilet.	

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
8			Promotion of greengram & blackgram in rice-fallow areas	<ul style="list-style-type: none"> ➤ FLD has been undertaken during current Rabi season on YMV and stress tolerant green gram var. Virat. 4.5Qtls seeds provided to 55 farmers in 3 blocks –Ambabhona, Jharbandh & Sohella) ➤ Training will also be conducted on INM Practices including supply of 50 litres of Rhizobium culture, 50 litres of PSB, 50 Liters of Trichoderma viridi to 152 farmers for seed treatment and soil application. ➤ 500 Pcs of Yellow sticky trap has been used and demonstrated for management of sucking pest in Rabi green gram ➤ 10 varieties of greengram and Blackgram suitable for Bargarh has been exhibited in District level Farmers Fair for creating better awareness among farmers 	
9			Strengthening of FPOs activities with help of NABARD	<ul style="list-style-type: none"> ➤ 4 no. of trainings has been imparted on proper pest and disease management in colecrops & Solanaceous vegetables to 160 farmers from 6 villages in collaboration with BFPO, Bhatli, VSSFPO, Ambavona, Krishnahira FPO, Paikamal ➤ 5 diagnostic field visits were made covering 60 farmers of 9 villages and were suggested adequate PP measures particularly on DBM management in cauliflower of Bhatli Block ➤ One lady BOD member of KHFPO has been nominated and awarded as Best performing FPO of Bargarh district at OUAT Farmers Fair. ➤ Two FPOs has been felicitated on OUAT foundation day on 24.08.2023 	
10			Promotion of labelling, packaging with registration of value-added products of SHGs	<ul style="list-style-type: none"> ➤ Trainings has been imparted to 75 SHG - members, covering 3 villages in 3 blocks (Bhatli, Ambabhona, Bargarh) . ➤ Labelled products has been sold in the brand name of “Sarvani” with help of Mission Shakti & District Adm. At Bargarh town. 	
11			Promotion of super & smart napier grass	<ul style="list-style-type: none"> ➤ Awareness has been made on their cultivation at District level Animal fair & Animal Health camp involving 350 farmers. ➤ Trainings have been imparted to 50 farm women on ICM practices in different fodder crops ➤ 1600 slips has been provided to 12 farmers for multiplication. ➤ One fodder cafeteria has been established at KVK Campus 	
12			Intensification of rice – fallow with lentils should be evaluated	<ul style="list-style-type: none"> ➤ Seeds var. Pusa Ageti & L-4717 has been procured from KVK, Malda for this and Sowing done at KVK farm . 	
13			Field survey necessity for promotion of wheat crop.	<ul style="list-style-type: none"> ➤ Done ,It is observed that farmers of Shohella and Ambabhona are interested for cultivation of wheat to meet domestic consumption only in small areas compromising profit. 	
14			Introduction of Paddy-mustard-paddy in seed drill	<ul style="list-style-type: none"> ➤ 150 farmers has been trained for this .Demonstration in DSR conducted in 20 ha area during last kharif and mustard var. Tapeswari in 25 ha area in current rabi season in Attabira and Ambabhona Block. 	

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
15			More skill trainings & income generating training of long duration to be included.	<ul style="list-style-type: none"> ➤ Six Trainings has been provided to 150 farmers in collaboration with NGO Debadatta club & New life foundation, SBIRETI, TRIRANGA NGO etc on preservation of fruits and vegetables, processing of Dal and Paira cropping of pulse ➤ Two trainings(5-days) on Preparation of Biopesticides from Natural resources has been imparted to 30 Rys at KVK campus ➤ Two trainings has been granted by ASCI on Farm Mechanization and Organic grower that will conducted during Feb-March2024. 	

* Salient recommendation of SAC in bullet form

Attach a copy of SAC proceedings along with list of participants Page 99

2.a. District level data on agriculture, livestock and farming situation (2021)

Sl. no.	Item	Information
1	Major Farming system/enterprise	Paddy-Paddy, Paddy-Pulse, Paddy-oilseed, Paddy-vegetables-vegetables, Paddy-Fallow, Dairy, Poultry, Mushroom, NTFP
2	Agro-climatic Zone	West Central Table Land
3	Agro ecological situation	<ul style="list-style-type: none"> • Plain Land Irrigated • Plain Land Rainfed • Undulating Plain Drought-prone • Undulating Sub-mountainous Tract Rainfed
4	Soil type	Red & Yellow, Lateritic, Black soil
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others (q/ha.)	Paddy-45.3 (K), Paddy-68.0 (R), Greengram-3.0(K), Greengram-6.16(R), Groundnut-17.5 (K), Groundnut-24 (R), Wheat-14.7, Maize-33.0, Blackgram-2.75, Pigeonpea-11.5, Mustard-8.75, Sesamum-2.1, Potato-103.5, Brinjal-220, Chilli-65Mango-52.2, Banana-18.3
6	Mean yearly temperature, rainfall, humidity of the district	14-43 ⁰ c, 1367.3mm, 74%
7	Production of major livestock products like milk, egg, meat etc.	Milk-45700MT, Meat-16400 MT, Egg-70.94 million

Note: Please give recent data only

2.b. Details of operational area / villages (2022-23)

Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
Cheptibahal	2022	Sohela	55	450	84
Dechuan	2022	Ambabhona	79	237	73
Birmal	2022	Bargarh	49	2295	381
Ammunda	2022	Padampur	68	592	110
Jhiliminda	2022	Attapura	08	2546	421

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	Bargarh	Sohela	Cheptibahal	Paddy, Maize, Sesamum, Vegetables & Poultry	<ul style="list-style-type: none"> • Low yield and non availability of location specific drought tolerant Rice Variety • Poor yield due to incidence of Blast disease in paddy • Low income from local maize variety • Distress sale and spoilage due to high perishability nature of tomato • More cost of production due to heavy use of chemical pesticides in Brinjal • Less profit from sesamum due to local variety • Food and Nutritional insecurity in farming community • High Mortality and loss due to wilting in brinjal • High degree of drudgery on fam women 	<ul style="list-style-type: none"> • ICM in paddy • Varietal evaluation of paddy • Varietal evaluation of maize • Value addition • IPM in brinjal • Varietal evaluation of seshamum • Household foods & nutritional security • Varietal evaluation of brinjal • Drudgery reduction
2	Bargarh	Ambabhona	Dechuan	Paddy, Wheat, Greengram, Mustard Vegetables,	<ul style="list-style-type: none"> • Cultivation of low yielding wheat variety and Distress sale of paddy in Bargarh district • Poor yield due to incidence of Blast disease in paddy • Low income from greengram due to YMV infestation • Low income from mustard due to traditional variety • Poor yield of Chilli due to local varieties • Low yield of tomato due to Bacterial wilt infestation • Low yield due to poor growth in initial stage of watermelon • High degree of drudgery on fam women • Food and Nutritional insecurity in farming community 	<ul style="list-style-type: none"> • Varietal evaluation of Wheat • Varietal evaluation of Paddy • IDM in ingreengram • crop production technology of mustard • ICM in Mustard • Varietal evaluation of Chilli • IDM in tomato • ICM In watermelon • Drudgery reduction • Household foods & nutritional security • Foods & nutritional security

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
3	Bargarh	Bhatli	Birmal	Paddy, Greengram Vegetables, Dairy	<ul style="list-style-type: none"> • Poor yield due to incidence of Blast disease in paddy • Low yield of Direct seeded rice due to attack of stem borer • Scarcity of labour during weeding of paddy • Less profit from pigeon pea due to local varieties with traditional practices • Low yield of tomato due to Bacterial wilt infestation • Low yield due to late planting of potato • High degree of drudgery on fam women • Food and Nutritional insecurity in farming community 	<ul style="list-style-type: none"> • Varietal evaluation of paddy • IPM in paddy • Farm mechanisation of paddy • CFLD on pigeon pea • IDM in tomato • ICM in potato • Drudgery reduction • Household foods & nutritional security
4	Bargarh	Padampur	Ammunda	Paddy, Pigeonpea, Mustard, Dairy	<ul style="list-style-type: none"> • Less Profit due to low yield in groundnut sole crop • Poor availability of quality seeds of pigeon pea • Poor yield of greengram due to traditional practices • Food and Nutritional insecurity in farming community • High degree of drudgery on fam women 	<ul style="list-style-type: none"> • Intercropping in groundnut • CRP in pigeonpea • IDM in greengram • Household foods & nutritional security • Drudgery reduction
5	Bargarh	Attabira	Jhilminda	Paddy, vegetables, Mushroom, Duckery ,Fishery	<ul style="list-style-type: none"> • Low yield and non availability of location specific drought tolerant Rice Variety • Poor yield due to incidence of Sheath rot disease of Rabi paddy • Low return from brinjal due to pest & disease incidence • Food and Nutritional insecurity in farming community • Poor utilisation of agro- by products • Poor availability of compost • Low return from local poultry • Less return from pond 	<ul style="list-style-type: none"> • Varietal evaluation of paddy • IDM in paddy • Ipm in brinjal • Varietal evaluation of brinjal • Drudgery reduction • Household foods & nutritional security • Mushroom production • Vermicompost producton • Poultry management • Yearling production

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2023-24) for its development and action plan

Name of village	Block	Action taken for development
Cheptibahal	Sohela	• FLD, OFT, CFLD, Training, Soil Testing, Diagnostic Field Visit, Convergence programme with line Departments
Dechuan	Ambabhona	• FLD, OFT, CFLD, Training, Soil Testing, Diagnostic Field Visit, Convergence programme with line Departments
Birmal	Bargarh	• FLD, OFT, CFLD, Training, Soil Testing, Diagnostic Field Visit, Convergence programme with line Departments
Ammunda	Padampur	• FLD, OFT, CFLD, Training, Soil Testing, Diagnostic Field Visit, Convergence programme with line Departments
Jhiliminda	Attabira	• FLD, OFT, CFLD, Training, Soil Testing, Diagnostic Field Visit, Convergence programme with line Departments

2.1 Priority thrust areas

1.	Introduction of suitable varieties with improved packages of practices
2.	Organic farming
3.	Reclamation of degraded land
4.	Integrated Nutrient Management practices
5.	Integrated Disease and Pest Management Practices
6.	Quality seeds and seedlings production
7.	Skill/enterprise related technology for rural youths
8.	Value addition in seasonal vegetables
9.	Integrated farming system
10.	Rearing management of animals & birds
11.	Farm Mechanization
12.	Off season vegetable cultivation
13 .	High degree of drudgery of farm women
14	Poor nutritional status of farming community

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
8	8	56	18	4	3	2	21	8	42	14	56	16	16	160	32	11	12	7	76	22	120	40	160

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
69	69	1600	34	58	7	3	40	19	77	86	165	1200	1288	12000	216	532	112	326	759	102	1088	188	1277
			2	2	0	8	0	3	3	1	7	0			12	5	56	8	92	64	60	57	23

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	M	F	T	
1600	1657	31	53	6	3	34	17	72	74	146	12000	127723	1831	412	945	246	6214	821	8991	1480	10472	
		1	4	3	4	7	9	1	7	8	0			2	8	5	7	5	4	2	9	1

Seed production (q)						Planting material (in Lakh)					
Target			Achievement			Target			Achievement		
172			180			5.0000			5.2100		

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
0.40000	0.40900	0.00200	.01120

* 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							
Seminar/conference/ symposia papers							
Books							
Bulletins	3	3000					
News letter	1	1000					
Popular Articles							
Book Chapter							
Extension Pamphlets/ literature							
Technical reports	4	10					
Electronic Publication (CD/DVD etc)							
TOTAL							

Achievements on technologies assessed and refined

OFT-1

1.	Title of On Farm Trial	Assessment of chilli varieties against leaf curl virus disease
2.	Problem diagnosed	Poor yield of Chilli due to leaf curl disease
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP : LOCAL VARIETY-Krishan,(VNR),spraying of Imidachloprid 17.8sl@0.3ml/lit TO1::ARKA Tejasvi(IIHR2021),yield potential100q green,20q dry/acre, Tolerant to leafcurl virus, Seed treatment with Imidachloprid 600FS @ 5ml /kg seed and Foliarspraying of spiromesifen 22.9%SC @ 1 ml/ l of water twice at 30and 45 DAT TO2::KASHI ABHA(IIVR2019), yield potential80q green,15q dry/acre, dry/acre,Resistant to leafcurl virus Seed treatment with Imidachloprid 600FS @ 5ml /kg seed and Foliarspraying of spiromesifen 22.9%SC @ 1 ml/ l of water twice at 30and 45 DAT
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIHR,Bangalore& IIVR2019
5.	Production system and thematic area	Vegetable-vegetable-fallow & IDM
6.	Performance of the Technology with performance indicators	% of curled leaves 45DAS, fruits/plant, Yield dry chilly(q/ha)
7.	Final recommendation for micro level situation	Arka Tejasvi is the suitable variety for controlling leaf curl virus
8.	Constraints identified and feedback for research	Seed availability is less
9.	Process of farmers participation and their reaction	Active participation, Individual contact, field visit, Farmer are happy but they are skeptical about the availability of seeds.

Thematic area: IPM

Problem definition: **Poor yield of Chilli due to leaf curl disease**

Technology assessed:

TO-1ARKA Tejasvi(IIHR2021),yield potential100q green,20q dry/acre, Tolerant to leafcurl virus, Seed treatment with Imidachloprid 600FS @ 5ml /kg seed and Foliarspraying of spiromesifen 22.9%SC @ 1 ml/ l of water twice at 30and 45 DAT

TO2::KASHI ABHA(IIVR2019), yield potential80q green,15q dry/acre, dry/acre,Resistant to leafcurl virus Seed treatment with Imidachloprid 600FS @ 5ml /kg seed and Foliarspraying of spiromesifen 22.9%SC @ 1 ml/ l of water twice at 30and 45 DAT

Technology option	No. of trials	Yield component		Yield dry chilli (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		% of curled leaves 45DAS	Fruits/plant					
FP	7	12.3	178	14.50	75300	157950	82650	2.09
TO1	7	1.53	213	15.36	65600	154340	88740	2.35
TO2	7	2.45	197	12.8	69800	128230	58530	1.83

OFT-2

1.	Title of On Farm Trial	Assessment of chemical methods of control of seedling blight disease of Finger millet
2.	Problem diagnosed	Poor yield of Finger millet due to seedling blight disease
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers' practice :Sowing seeds with application of <u>FYM@0.5t/ha</u> only TO1::Soil application with Elemental sulphur @ 80 kg/ha just prior to sowingSource : IIMR, 2019 TO2::Soil application with Bleaching powder @ 30 kg/ha just 10 days prior to sowing + application of microbial consortium @ 2.5 kg/ha (mixed with seed) Source : IIMR, 2019 T3:Seed treatment with combined bio agents (<i>Ps. fluorescence</i> + <i>Trichoderma viride</i> @ 6gm/kg of seeds, Spraying of Vitavax 75% WP @ 5gm/L of water & Application of lime during last ploughing @ 250 kg/Ac Source: TNAU, 2014
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIMR, 2019& TNAU, 2014
5.	Production system and thematic area	Ragi –Fallow,Integrated Disease Management
6.	Performance of the Technology with performance indicators	Grain Yield (q/ha),Disease index,Mortality% of seedlings at 15DAS B:C
7.	Final recommendation for micro level situation	Seed treatment with combined bio agents (<i>Ps. fluorescence</i> + <i>Trichoderma viride</i> @ 6gm/kg of seeds, Spraying of Vitavax 75% WP @ 5gm/L of water & Application of lime during last ploughing @ 250 kg/Ac is best option to control seedling Blight Disease in Ragi during Kharif
8.	Constraints identified and feedback for research	Availability of combined bio agents (<i>Ps. fluorescence</i> + <i>Trichoderma viride</i> in local area .More thrust on Nursery Management modules
9.	Process of farmers participation and their reaction	Actively participated in both crop management and timely sowing.More survival of seedlings attracted other farmers.

Thematic area: Integrated Disease Management

Problem definition: Poor yield of Finger millet due to seedling blight disease

Technology assessed:

FP-Sowing seeds with application of FYM@0.5t/ha only

TO1::Soil application with Elemental sulphur @ 80 kg/ha just prior to sowing

TO2::Soil application with Bleaching powder @ 30 kg/ha just 10 days prior to sowing + application of microbial consortium @ 2.5 kg/ha (mixed with seed)

T3:Seed treatment with combined bio agents (*Ps. fluorescence* + *Trichoderma viride* @ 6gm/kg of seeds, Spraying of Vitavax 75% WP @ 5gm/L of water & Application of lime during last ploughing @ 250 kg/Ac -

Table:

Technology option	No. of trials	Yield component		Yield dry chilli (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Disease index	Mortality% of seedlings at 15DAS					
FP	7	3.7	13.3	10.50	43100	52500	9400	1.21
TO1	7	2.45	9.7	11.36	46600	56800	10200	1.21
TO2	7	1.67	6.9	12.8	49800	64000	14200	1.28
TO3	7	3.7	13.3	13.64	48600	67000	18400	1.37

OFT-3

1.	Title of On Farm Trial	Assessment of performance of grafted brinjal under different spacing
2.	Problem diagnosed	High Wilting in Hybrids of Brinjal
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP-Planting of Hybrid Brinjal VNR-218,Plant at 1m X 2 m TO-1Planting of Grafted Brinjal Plant at 1m X 1 m TO-2Planting of Grafted Brinjal Plant at 1.5m X 1.5 m
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TNAU2017
5.	Production system and thematic area	Vegetable –fallow & HOV
6.	Performance of the Technology with performance indicators	Seedling mortality (%),Yield q/ha,
7.	Final recommendation for micro level situation	Planting Grafted Brinjal produces more yield than normal seedlings with less plant mortality.
8.	Constraints identified and feedback for research	Availability of grafted seedlings in local market. Finding exact days of planting after grafting being done/days old grafts
9.	Process of farmers participation and their reaction	Actively participated both physically and over phone & more preferred due to higher yield .

Thematic area: HOV

Problem definition: **low yield due to High Wilting in Hybrids of Brinjal**

Technology assessed:

TO-1Planting of Grafted Brinjal Plant at 1m X 1 m

TO-2Planting of Grafted Brinjal Plant at 1.5m X 1.5 m

Table:

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
		Seedling mortality (%)	No of fruits/plant					
FP	7	13.7	20	132.7	92500	132700	40200	1.43
TO1	7	3.1	18	103.7	97600	103700	6100	1.06
TO2	7	2.7	23	144.8	98900	144800	45900	1.46

OFT-4

1.	Title of On Farm Trial	Assessment of Efficacy of biopesticides for the management of <i>M. incognita</i> affecting Okra
2.	Problem diagnosed	Low yield of Okra due to Nematode Infestation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers' practice :seed treatment with <i>T.viride</i> @5gm/kg seed TO1:Seed treatment with <i>P. lilacinum</i> @ 5 ml/kg + application of vermicompost @ 2.5 ton/ha enriched with <i>P. lilacinum</i> (@ 10 ml/kg) TO2:Seed treatment of okra with liquid formulation of <i>Bacillus pumilus</i> 1% A.S @ 10 ml/kg seed and application of 20 tons of FYM enriched with <i>B. pumilus</i> @ 5 lit
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP onNematodes, BBSR,2018&IIHR,2017
5.	Production system and thematic area	Vegetables –Fallow,Integrated crop Management
6.	Performance of the Technology with performance indicators	Disease index,% of wilted plants,Yield,B:C
7.	Final recommendation for micro level situation	Seed treatment with <i>P. lilacinum</i> @ 5 ml/kg + application of vermicompost @ 2.5 ton/ha enriched with <i>P. lilacinum</i> (@ 10 ml/kg) is better to controlRootknot Nematode complex in Cowpea
8.	Constraints identified and feedback for research	Availability of Bio pesticide in Local Market .Varietal screening for Nematode tolerance
9.	Process of farmers participation and their reaction	Show interest in seeing Biopesticides and willing to purchase if available at local market

Thematic area: Integrated Disease Management

Problem definition: **Low yield of Okra due to Nematode Infestation**

Technology assessed:

TO1:Seed treatment with *P. lilacinum*@ 5 ml/kg + application of vermicompost @ 2.5 ton/ha enriched with *P. lilacinum*(@ 10 ml/kg)

TO2:Seed treatment of okra with liquid formulation of *Bacillus pumilus* 1% A.S @ 10 ml/kg seed and application of 20 tons of FYM enriched with *B. pumilus* @ 5 lit

Table:

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
		%of affected Plants	No of fruits/plant					
FP	7	9.32	17.3	82.7	76500	124050	47550	1.62
TO1	7	3.27	21.7	101.2	77200	151800	74600	1.96
TO2	7	4.52	25.6	94.5	78300	141750	63450	1.81

OFT-5

1.	Title of On farm Trial	Assesment of nano urea liquid fertilizer in transplanted rice
2.	Problem diagnosed	Low yield due to improper use of urea fertilizer
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO1:50% recommended N+100% P and K as basal application and two sprays Nano urea @ 0.2 % tillering and PI stage TO2:75% recommended N+100% P and K as basal application and two sprays Nano urea @ 0.2 % tillering and PI stage
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AAU(2019-20)
5.	Production system and thematic area	Rice-Rice, Soil fertility management
6.	Performance of the Technology with performance indicators	Initial and post harvested soil test value, plant height in different stages, no of tillers/plant, yield, economics, B:C ratio
7.	Final recommendation for micro level situation	75% recommended N+100% P and K as basal application and two sprays Nano urea @ 0.2 % tillering and PI stage
8.	Constraints identified and feedback for research	Low yield due to high weed infestation, application of herbicide needed
9.	Process of farmers participation and their reaction	Farmers are satisfied with the technology

Thematic area:

Problem definition:

Technology assessed: TO1:50% recommended N+100% P and K as basal application and two sprays Nano urea @ 0.2 % tillering and PI stage

TO2:75% recommended N+100% P and K as basal application and two sprays Nano urea @ 0.2 % tillering and PI stage

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Plant height (cm)	Panicle length	Test wt. (100 grain wt.)						
FP:100 % NPK	7	76	19	22		42	56200	91686	45486	1.63
TO1:50% recommended N+100% P and K as basal application and two sprays Nano urea @ 0.2 % tillering and PI stage	7	92	20	23		44	57100	96052	48952	1.68
TO2:75% recommended N+100% P and K as basal application and two sprays Nano urea @ 0.2 % tillering and PI stage	7	99	22	23		46	58500	100418	41918	1.71

OFT-6

1.	Title of On Farm Trial	Assessment of suitable varieties for value added products (Puree) of Tomato
2.	Problem diagnosed	Distress sale and spoilage due to high perishability nature of tomato
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP-Value added product of local variety TO1-Value added product of tomato Var- ArkaVishesh TO2-Value added product of tomato Var- ArkaApeksha
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIHR,Bengaluru,2019
5.	Production system and thematic area	Homestead & value addition
6.	Performance of the Technology with performance indicators	Amount of pulp(%), consistency TSS(BRIX),B:C ratio
7.	Final recommendation for micro level situation	ArkaApekshya is the most suitable variety for processing
8.	Constraints identified and feedback for research	Availability of quality seeds of the recommended variety
9.	Process of farmers participation and their reaction	Actively participated in both crop management & preparation of value added products. The shelf life of the fruit attracted the farm women & they were happy by getting more puree due to high pulp content.

Thematic area: value addition

Problem definition: Distress sale and spoilage due to high perishability of tomato

Technology assessed: FP-Value added product of local variety

TO1-Value added product of tomato Var- ArkaVishesh

TO2-Value added product of tomato Var- ArkaApeksha

Table:

Technology option	No. of trials	Yield component			Gross cost of intervention (Rs)	Gross return (Rs/)	Net return (Rs./)	BC ratio
		Yield (q/ha)	TSS (Brix)	Conversion Puree (%)				
FP-	7	282.6	4.1	28	1714	2520	806	1.45
TO1-	7	326.3	4.5	33	1729	2970	1241	1.71
TO2-	7	334.2	4.6	35	1735	3150	1415	1.81

OFT-7

1.	Title of On Farm Trial	Assessment of the improved techniques for cultivation of Paddy straw mushroom (<i>Volvariella volvacea</i>) using crumpled straw
2.	Problem diagnosed	Less income due to low yield & poor utilization of crumpled paddy straw
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP-Rectangular compact method Size-45x60x30cm.Mushroom production by using crumpled paddy straw -5kg with normal practice (soaking in water 5hrs with 2% calcium carbonate), unknown age of spawn, 3% of dry substrate weight), pulse powder 3% dry substrate weight, TO1-Square compact bed size (30 × 30 cm) , 14-20 days age spawn at 2% of dry substrate weight and coarsely ground horse gram powder (at 2% dry substrate weight) T02-Circular compact bed size -(45 cm diameter, 30 cm height)Mushroom production technique is same as TO1
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	DepartmentofPlantPathology,TamilnaduAgriculturalUniversity,Coimbatore-2012
5.	Production system and thematic area	Mushroom Production& Homestead
6.	Performance of the Technology with performance indicators	Yield (k.g./ bed), B. E (%),B:C ratio
7.	Final recommendation for micro level situation	Crumpled paddy straw can be effectively used for paddy straw mushroom production
8.	Constraints identified and feedback for research	Availability of suitable frame for circular compact bed.Research can be done for mushroom production byusingcombine harvester crumpled straw
9.	Process of farmers participation and their reaction	Individual contact, field visit, Telephonic contact Farm women are satisfied with the performance of circular compact bed techniques

Thematic area: IGA

Problem definition:

Technology assessed:

FP-Rectangular compact method Size-45x60x30cm.Mushroom production by using crumpled paddy straw -5kg with normal practice (soaking in water 5hrs with 2% calcium carbonate), unknown age of spawn, 3% of dry substrate weight), pulse powder 3% dry substrate weight,
TO1-Square compact bed size (30 × 30 cm) , 14-20 days age spawn at 2% of dry substrate weight and coarsely ground horse gram powder (at 2% dry substrate weight)
T02-Circular compact bed size -(45 cm diameter, 30 cm height)Mushroom production technique is same as TO1

Table:

Technology option	No. of trials	Yield (k.g./ bed)	B. E (%)	Gross Cost/100 beds	Gross Return/100 beds	Net Return	B:C
FP	7	0.490	9.8	4700	7350	2650	1.56
TO1	7	0.520	10.4	4300	7800	3500	1.81
TO2	7	0.540	10.8	4300	8100	3800	1.88

OFT-8

1.	Title of On farm Trial	Assesment of in-situ soil moisture conservation methods in tomato raddish sequence
2.	Problem diagnosed	Less soil moisture result in taking only one crop leading to less income/unit area and intensive weed problem result in less productivity
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO1: Ridge and furrow method with organic mulch TO2: Broad bed furrow method TO3:Broad bed furrow method with organic mulch
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on Dryland Agriculture, Annual Report, 2017-18.
5.	Production system and thematic area	Rice- Fallow & Soil water conservation
6.	Performance of the Technology with performance indicators	Yield(t/ha), moisture content, growth parameters
7.	Final recommendation for micro level situation	Ridge and Furrow with organic mulch gave good result
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Active participation, Individual contact, field visit, Farmer are happy

Thematic area: soil moisture conservation

Problem definition: Less soil moisture result in taking only one crop leading to less income/unit area and intensive weed problem result in less productivity

Technology assessed:

TO1: Ridge and furrow method with organic mulch

TO2: Broad bed furrow method

TO3:Broad bed furrow method with organic mulch

Table:

Technology option	No. of trials	Yield component		Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		OFT E. yield(t/ha)	% increase in yield				
TO1	5	17.36	50.9	170000	347200	177200	2.04
TO2	5	12.25	6.5	150000	245000	95000	1.63
TO3	5	13.71	19.21	170000	274200	104200	1.61

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

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	RICE	ICM	Growing of var. Swarna Shreya Medium Duration (120-125), Aerobic Rice variety, withstand drought, average productivity 4.5-6.0t/ha, under severe drought-2.0-2.5t/ha	2.0	2.0	8				2		10		10	
2	RICE	IDM	ST with P. fluorescens @ of 10g/kg of seed followed by seedling dip @ of 2.5 kg dissolved in 100 litres & dipping the seedlings for 30 minutes. Foliar spraying with Azoxystrobin 23SC @ 1ml/ha for controlling sheath rot in paddy.	2.0	2.0	2	0	2	0	6	0	10	0	10	
3	Fingermillet	INM	Application of lime @ 0.25 LR (applied 15 days before flowering) along with 50 % N-P2O5-K2O (30-20-20 kg/ha)	2.0	2.0	3	0	1	0	6	0	10	0	10	
4	MAIZE	ICM	sweet corn var-Misti, medium tall (150-155cm), lodging resistant, yield-9.5-10.5 t/ha, Spacing 75cmx45cm, STBF	2.0	2.0	10	0	0	0	0	0	10	0	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					
RICE	KHARIF	Rainfed	SL	465	42	281	FALLOW	20.06.2023	10.10.2023	1094	43
RICE	RABI	IRRIGATED	CL	516	45	310	RICE	03.01.2024	Continuing	35.2	4
Fingermillet	Kharif	IRRIGATED	SL	388	43	306	RICE	04.06.23	Continuing	1094	43
MAIZE	RABI	IRRIGATED	SL	285	41	290	Cowpea	19.11.2023	28.02.2024	35.2	4

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

Cereals:

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
RICE	ICM	Growing of var. Swarna Shreya Medium Duration (120-125), Aerobic Rice variety, withstand drought, average productivity 4.5-6.0t/ha, under severe drought-2.0-2.5t/ha	10	2.0	50.6	34.8	45.40	74300	106260	31960	1.43	57400	73080	15680	1.27
RICE	IDM	ST with P. fluorescens @ of 10g/kg of seed followed by seedling dip @ of 2.5 kg dissolved in 100 litres & dipping the seedlings for 30 minutes. Foliar spraying with Azoxystrobin 23SC @ 1ml/ha	10	2.0	Contg.										
FINGER MILLET	INM	Application of lime @ 0.25 LR (applied 15 days before flowering) along with 50 % N-P2O5-K2O (30-20-20 kg/ha)	10	1.5	14	11	27	21200	53844	32644	2.5	18800	42306	23506	2.2
MAIZE	ICM	sweet corn var- Misti, medium tall (150-155cm), lodging resistant, yield-9.5-10.5 t/ha, Spacing 75cmx45cm, STBF	10	2.0	94.3	84.5	11.59	86800	191840	105040	2.21	66300	118600	52300	1.78
Total			50	10.0											

Pulses

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.	Green gram	IPM	Seed treatment with Imidacloprid 600 FS @ 5 ml/ kg seed + Installation of Yellow Sticky Trap @ 50/ ha + Spraying Neem oil formulation 0.15% @ 2 ml/ l of water at 30 DAS + Diafenthiuron 50% WP @ 1 gm /l at 45 DAS	2.0	2.0	1		2	0	7	0	10	0	10	
2.	Lentil	ICM	HYV- Seed treatment with Carboxin 37.5% + Thiaram 37.5% @ 2.5gm/kg seed , Spraying of Nuvaluron 5.25 + Indoxacarb 4.5 @ 1ml/lit at 60DAS	1.0	1.0					5		5		5	

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					
Greengram	RABI	Rainfed	SL	256	48.3	325	RICE	11.11.2023	7..02.2024	0	0
Lentil	RABI	Rainfed	SL	256	48.3	325	RICE	21.12.2023	To beharvested	0	0

Frontline demonstration on pulse 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
GREENGRAM	IPM	Seed treatment with Imidacloprid 600 FS @ 5 ml/ kg seed + Installation of Yellow Sticky Trap @ 50/ ha + Spraying Neem oil formulation 0.15% @ 2 ml/ l of water at 30 DAS + Diafenthiuron 50% WP @ 1 gm /l at 45 DAS	10	2.0	6.94	4.95	28.94	53800	69400	15600	1.28	39700	49500	9800	1.24
Lentil	ICM	HYV- Seed treatment with <u>Carboxin 37.5%+ Thiaram 37.5% @ 2.5 gm/kg seed</u> ,Spraying of Nuvaluron5.25 + <u>Indoxacarb 4.5@ 1ml/lit</u> at 60DAS	5	1.0	To be harvested										
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 Crops:

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/Demonstration									Reasons for short fall in achievement	
				Proposed	Actual	SC		ST		Others		Total				
						M	F	M	F	M	F	M	F	T		
1	BRINJAL	IDM	Growing of brinjal Hybrid var. Arka Anand, Planting the seedling at 75cm X 75cm m with a fertilizer dose of 200: 100:100 NPK kg/ha	1	1	0	10	0	0	0	0	0	0	10	10	
2	Chilli	IPM	Four Spraying with Acephate @1.5 g/l + Neem oil @ 2 ml/l followed by Fipronil @1.0 ml/l + Neem oil @ 2 ml/l followed by Imidacloprid @ 2 g/15 l + Neem oil @ 2 ml/l followed by Cyazypyr @ 1.8 ml/ l at weekly interval from 45DAT till fruit formation	1.0	1.0			8		2			10		10	
3	Pumpkin	IDM	Growing of two rows of maize as border crop+ use of agri silver mulch sheet, Seed treatment with Carbendazim 12% + Mancozeb 63% @ 3 g/kg, Drenching of Captan 70% + Hexaconazole 5% WP @ 0.1% 15 days after germination, Spraying of Tebuconazole 50% + Trifloxystrobin 25% @1g/l + spray with (Imidacloprid 17.8 SL @7.5 ml/ 15 L+ Neem oil 0.2%) followed by Fosetyl-AI @ 0.1% at 10 days interval	1.0	1.0	2		2		6			10		10	
4	Tube rose	ICM	Cultivation of var.Prajwal with spacing 45cmx10cm ,fert.dose 200:200:200Kg/ha	1.0	1.0					5			5		5	
5	Onion	IDM	Seed treatment with Carboxin 37.5% + Thiram 37.5% (0.2%) + three foliar spraying with Tebuconazole 25 EC (0.1%) at 15 days interval starting from initiation of the infection	1.0	1.0	3		2		5			10		10	
6	WATER MELON	ICM	watermelon seedlings prepared in polythene bags (200 gauge,10 cm diameter & 15 cm height). The polythene filled with 1:1:1 soil, sand & FYM. Then transplanted the 12 days old seedling in main field.	2.0	2.0	2	0	2	0	6	0	10	0	10		
7	BRINJAL	IPDM	Application of Neem cake @ 200 kg/acre + Pheromone trap + Clipping of infested twigs + 4 times spraying of 5 % NSKE	2.0	2.0	1	0	1	0	8	0	10	0	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					
BRINJAL	KHARIF	RAINFED	SL	302	41	295	FALLOW	2.07.2023	10.10.2023	1094	43
Chilli	Kharif	Rainfed	SL	512	42	320	Fallow	12.07.2023	21.10.2023	1094	43
Pumpkin	Rabi	RAINFED	SL	354	45	310	Cowpea	21.07.2023	31.12.2023	1094	43
Tube rose	KHARIF	RAINFED	SL	512	42	320	FALLOW	30.06.2023	12.12.2023	1094	43
Onion	RABI	IRRIGATED	CL	546	45	325	RICE	12.11.2023	27.02.24	35.2	4
WATERMELON	RABI	IRRIGATED	SL	285	40	280	RICE	25.01.2022	10.01..24	35.2	4
BRINJAL	Rabi	IRRIGATED	CL	365	42	280	Greengram	20.11.2023	29.02.2024	35.2	4
Cotton	Kharif	Rainfed	SL	512	42	320	Fallow	12.07.2023	14.12.24	1094	43

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
BRINJAL	IDM	Growing of brinjal Hybrid var. Arka Anand Planting the seedling at 75cm X 75cm m with a fertilizer dose of 200: 100:100 NPK kg/ha	10	2.0	231.8	172.1	31.25	150.6 AV fruit wt. in gm	123.9	102840	236800	133960	2.3	87680	184400	101720	2.1
Chilli	IPM	Four Sprayings with Acephate @ 1.5 g/l + Neem oil @ 2 ml/l followed by Fipronil @ 1.0 ml/l + Neem oil @ 2 ml/l followed by Imidacloprid @ 2 g/15 l + Neem oil @ 2 ml/l followed by Cyazypyr @ 1.8 ml/l at weekly interval from 45DAT till fruit formation	10	1.0	16.2	12.3	31.70	7.3 (Leaf curled (%) at 75DAS)	2.9	105800	239760	133960	2.26	94600	196320	101720	2.07
Tuberose	ICM	Cultivation of var.Prajwal with spacing 45cmx10cm ,fert.dose 200:200:200Kg/ha	5	1.0	103.5	86.7	19.37	76.9 Av.f lower stalk length cm	63.5	101900	206500	104600	2.02	92540	175500	82960	1.89

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
Pumpkin	IDM	Growing of two rows of maize as border crop+ use of agri silver mulch sheet, Seed treatment with Carbendazim 12% + Mancozeb 63% @ 3 g/kg, Drenching of Captan 70% + Hexaconazole 5% WP @ 0.1% 15 days after germination, Spraying of Tebuconazole 50% + Trifloxystrobin 25% @1g/l + spray with (Imidacloprid 17.8 SL @7.5 ml/ 15 L+ Neem oil 0.2%) followed by Fosetyl-Al @ 0.1% at 10 days interval	10	1.0	146.2	112.3	30.35	2.4 Av. fruit wt -kg	1.6	80500	176300	95800	2.19	78800	131520	52720	1.66
Onion	IDM	Seed treatment with Carboxin 37.5% + Thiram 37.5% (0.2%) + three foliar spraying with Tebuconazole 25 EC (0.1%) at 15 days interval starting from initiation of the infection	10	1.0	185.9	125.3	48.36	153.5 AV bulb wt. in gm	124.3	78650	184000	158500	2.34	58160	114000	83500	1.94
BRINJAL	IPDM	Application of Neem cake @ 200 kg/acre + Pheromone trap + Clipping of infested twigs + 4 times spraying of 5 % NSKE	10	2.0	243.9	185.1	31.89	356.2 AV fruit wt. in gm	295.2	98600	259000	160400	2.62	85600	210000	124400	2.45
Cotton	INM	One spary of 2 % uraea and one spray of 1 % urea + 1 % MgSo4 during flowering to boll development stage	10	4	14	12	16.7	50200	98280	48080	1.96	44500	84240	39740	1.89	1.	Cotton

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
WATER MELON	ICM	watermelon seedlings prepared in polythene bags (200 gauge,10 cm diameter & 15 cm height). The polythene filled with 1:1:1 soil, sand & FYM. Then transplanted the 12 days old seedling in main field.	10	2.0	185.9	155.6	19.35	3.69 AV fruit wt. kg	2.64	97500	198300	100800	2.03	81590	123200	45250	1.57

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.)			
					Demonstration	Check		Demonstration	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																	
Quails	IGA	Rearing of Quail birds- (Space requirement – 1.5 sq.ft/bird, Feeding management	10	30	Avg. body wt. (gm.)/4 months- 210	830		Egg production (No./4 months)- 58	--								
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	Them atic 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 tration	Check		Demons tration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	
Mussels																	
Ornamental fishes																	
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

Other enterprises

Category	Name of the technology demonstrated	No. of Far mer	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				
				Demonstration	Check		Demons tration		Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Paddy straw mushroom																	
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (Fingermillet)	preparation of Ragi Malt Powder- Soaking of fingermillet ,germinate at room temp. for 48 hrs in moist cloth, Sun Drying for 8 hr. Roasting, milling	10	10	Conversion (%) - 88.3	97.5	9.2	Shelf life (days) -75	90	7947	5600	2347	1.4	4800	5850	1050	1.2	

* 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

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Rice	Low tillering and more yield of Swarnshreya liked by farmers.
2	Brinjal	Farmer like the Arka Anand variety due to higher yield and wilt resistant
3	Tomato	Bacterial wilt is effectively controlled.
4	Watermelon	Less seed rate in transplanting method attracted the farmers
5.	Maize-Sweet corn	Sweetness attracted and developed more interest
6	Brinjal	No wilting and no fruit Borer attack liked by farmer and wanted to know source of seed.
7	Onion	Purple blotch disease of onion is effectively controlled.
8	Pumpkin	Good quality pumpkin fetched higher price .
9	Quail	Accepted by the farmers due to its medicinal value.
10	Fingermillet malt powder	Nutrient rich malt food can easily be prepared at home.

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	02. 11.23, 06.11.23 20.02.24,26.02.24, 07.03.24	8	370	Microbial consortium in Cauliflower, Sheath blight in paddy, INM in onion, Value addd products from Tomato Arka apeksha, Leaf curl in chilli
2.	Farmers Training	.11.07.23, 01.08.23, 05.08.23 10.08.23	14	350	IDM in paddy, Tractor operated seed cum fertilizer drill, power operated Fingermillet thresher, IDM in chilli
3.	Media coverage	13.03.23	1	Mass	Farm mechanisation
4.	Training for extension functionaries	08.02.24,11.03.24,	2	30	IDM in paddy, INM in onion

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2023-24 and Rabi 2023:

- | | | | |
|--------------------------------------|---------|----------------------------|---------------|
| 1. Name of KVK : | BARGARH | 2. Year of establishment : | 1992 |
| 2. Host Institution : | OUAT | 4. Address : | Gambharipalli |
| 5. District : | Bargarh | 6. State : | Odisha |
| 7. Performance of the demonstration: | | | |

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) varietyname	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.	Av.	D	S	P
1	Arhar	Desi kandula	6.59	540	486	1424	Var. LRG-52, Line showing, Spacing of 90 x 60, seed treatment with rhizobium 10g per 1 kg seed, application of zyprmite plus 2.5 q per ha, application of prophenophus 50 EC @ 2 ml per lt of waterafter 75 DAS, application of Carbendazim 12% + mancozeb 63 % @ 2.5g per 1 lt, application of NAA 4.5 % w/w @ 1 ml per 4.5 lt of water (10 ppm).	120	30	11.4	7.807	9.493	100	100	66.64

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	Var. LRG-52, Line showing, Spacing of 90 cmx 60cm, seed treatment with rhizobium 10g per 1 kg seed, application of zyprmite plus 2.5 q per ha, application of prophenophus 50 EC @ 2 ml per lt of waterafter 75 DAS, application of Carbendazim 12% + mancozeb 63 % @ 2.5g per 1 lt, application of NAA 4.5 % w/w @ 1 ml per 4.5 lt of water (10 ppm).	43300	58410	15110	1.34	60500	85410	24910	1.41

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold(Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1	Arhar Var. LRG-52, Line showing, Spacing of 90cm x 60cm, seed treatment with rhizobium 10g per 1 kg seed, application of zyprmite plus 2.5 q per ha, application of prophenophus 50 EC @ 2 ml per lt of waterafter 75 DAS, application of Carbendazim 12% + mancozeb 63 % @ 2.5g per 1 lt, application of NAA 4.5 % w/w @ 1 ml per 4.5 lt of water (10 ppm).	28495	210	90	2400	895	Repayment of loan, purchase of grossory and medicine and bank savings	32

D. 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	Line showing, Spacing of 90cm x 60cm, seed treatment with rhizobium 10g per 1 kg seed, application of zymite plus 2.5 q per ha, application of prophenophus 50 EC @ 2 ml per lt of waterafter 75 DAS, application of Carbendazim 12% + mancozeb 63 % @ 2.5g per 1 lt, application of NAA 4.5 % w/w @ 1 ml per 4.5 lt of water (10 ppm).	Ideal	KVK, State Agri. Dept., Input dealer, ICAR	Manageable	Yes (long gestation period and monkey menace)	Yes	Involvement of FPOs and RMCs for seed procurement.

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Line showing, Spacing of 90cm x 60cm, seed treatment with rhizobium 10g per 1 kg seed, application of zymite plus 2.5 q per ha, application of prophenophus 50 EC @ 2 ml per lt of waterafter 75 DAS, application of Carbendazim 12% + mancozeb 63 % @ 2.5g per 1 lt, application of NAA 4.5 % w/w @ 1 ml per 4.5 lt of water (10 ppm).	Pods/plant Plant height Test weight	180 (Demo), 94(Check) 254 cm (Demo), 230 cm (Check) 90.4 gm (Demo), 65.5 gm (Check)	Eye catching Bigger bold and red colour seeds, mind blowing drooping bunch touching soil.

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmers attended
PIGEONPEA			
1	Awareness camp on integrated crop management of kharif pigeon pea	Dt. 02.09.2023 Vil: Bara, Block: Ambabhona, Dt. 18.09.2023 Vil: Ruchida, Block: Ambabhona	51 44
2	Field visit	Dt. 25.09.2023 Vil: Lambarupali, Block: Sohela, Dt. 10.09.2023 Vil: Bara, Block: Ambabhona Dt. 17.10.2023 Vil: Nalichuan, Block: Bhatli, Dt. 16.11.2023 Vil: Badadarlipalli, Block: Ambabhona Dt. 07.12.2023 Vil: Saplahar, Block: Paikamal	10, 14 15, 11 10
3	Group meeting	Dt. 15.09.2023 Vil: Jhankarpali, Block: Padampur, Dt. 21.09.2023 Vil: Bhukta, Block: Ambabhona Dt. 12.10.2023 Vil: Baulsingha, Block: Bhatli, Dt. 07.11.2023 Vil: Katharpali, Block: Sohela Dt. 15.12.2023 Vil: Tumuripani, Block: Jharbandh	15, 12 10, 14 15
4	Field day	Dt.29.12.2023 Vil: Bara, Prakashpur Block: Ambabhona	100

8. Photographs (as per crop stages i.e., growth & development):

 <p>Latitude: 21.559502 Longitude: 83.373758 Elevation: 205.5927 m Accuracy: 8.6 m Time: 12-08-2023 09:10 Note: Badshaha Ruchida</p>		 <p>Latitude: 21.583104 Longitude: 83.369078 Elevation: 213.0527 m Accuracy: 5.0 m Time: 05-11-2023 08:30 Note: Gurucharan PADHAN, Beherapali Ruchida</p>
<p>Vegetative stage of Arhar crop at Village Ruchida</p>	<p>Peak vegetative stage of Arhar crop at Village Bara</p>	<p>Flowering stage of Arhar crop at Village Behera Palli</p>
 <p>Bara, Odisha, India HCR5+487, Bara, Odisha 768045, India Lat 21.690409° Long 83.408796° 29/12/23 02:29 PM GMT +05:30</p>	 <p>Latitude: 21.066555 Longitude: 83.045491 Elevation: 220.8238 m Accuracy: 9.4 m Time: 08-01-2024 09:46 Note: arhar crop cutting</p>	
<p>Fruiting stage of Arhar crop at Village Bara</p>	<p>Crop cutting programme of Arhar crop at Village Darlipalli</p>	

9. Farmers' training photographs:

 <p>31/08/2023 13:25</p>		 <p>02/09/2023 14:11</p>
<p>Farmer training & input supply at village Ruchida</p>	<p>Farmer training and input supply at village Bara</p>	<p>Farmer training and input supply at village Prakashpur</p>

10. Quality Photographs of field visits/field days and technology demonstrated:

		
Field visit of Arhar crop at village Nuapara, Attabira	Field visit at village Prakashpur, Ambabhona	Field Day at Bara, Prakashpur, Ambabhona

11. Details of budget utilization

Crop(Provide crop wise information)	Items	BudgetReceived(Rs.)	BudgetUtilization(Rs.)	Balance(Rs.)
	i) Critical input	0	170000	170000
	ii) TA/DA/POL etc. for monitoring	0	30000	30000
	iii) Extension Activities (Field Day)	0	55000	55000
	iv)Publication of literature	0	15000	15000
	Total	0	270000	270000

1. Name of KVK: BARGARH

3. Host Institution: OUAT

5. District: Bargarh

7. Performance of the demonstration:

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.	Av.	D	S	P
1	Sesamum	Maghi rashi	3.95	250	242	1200	Smarak, Seed treatment followed by line showing with carboxin 37.5+ thiram 37.5 @ 2.5 g per 1 kg seed, Soil application of ZYPMITE plus @ 2.5q per ha, Spraying of prophenophus 40 % + sypermethrin 60% @ 2 ml per 1 ltr.	62	20	5.44	4.93	5.18	100	100	43.16

2. Year of establishment: 1992

4. Address: Gambharipalli

6. State: Odisha

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	Smarak, Seed treatment followed by line showing with carboxin 37.5+ thiram 37.5 @ 2.5 g per 1 kg seed, Soil application of ZYPMITE plus @ 2.5q per ha, Spraying of prophenophus 40 % + sypermethrin 60% @ 2 ml per 1 ltr.	23100	39500	16400	1.71	24900	51800	26900	2.08

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1	Smarak	10355	105	100	3100	745	Labour Payment, loan payment, purchase of grocery, clothes for family members, school uniform for children etc.	19

D. 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	Smarak, Seed treatment followed by line showing with carboxin 37.5+ thiram 37.5 @ 2.5 g per 1 kg seed, Soil application of ZYPMITE plus @ 2.5q per ha, Spraying of prophenophus 40 % + sypermethrin 60% @ 2 ml per 1 ltr.	ideal	KVK, State Agri.Dept, NGO, Input dealer	Good	No	yes	Purchase of oilseeds by RMCs.

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Sesamum Var. Smarak, duration 75 days, Bold seeded, Light Brown seeds, thin seed coat, Draught tolerant,	Pods/plant Plant height	Av 153pods/plant (Demo) 93pods/plant(check) Av 98cm (Demo) 115cm (check)	Better pods /plant in line sown crop than broadcasted one. Seed Size of local var. is bigger than HYV supplied.

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmers attended
1	Field visit	18.08.2023, Gopalpur	14
		04.09.2023, Beherapalli,Hatisar	12
2	Group meeting	12.09.2023, Bhatli	12
		21.09.2023, Nalichuan	15
3	Awareness Camp	31.08.2023, Gopalpur	65
4	Field day-cum-Exposure visit	1.11.2023, Gopalpur	50

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

		
<p>Vegetative stage of sesamum crop at village : Gopalpur, Block : Bhatli</p>	<p>Flowering stage of sesamum crop at village :Hatisar, Block : Bhatli</p>	<p>Harvesting of sesamum crop at village : Gopalpur, Block : Bhatli</p>

9. Farmers' training photographs

Farmers training at village : Gopalpur, Block : Bhatli

10. Quality Photographs of field visits/field days and technology demonstrated.



Field visit of sesamum crop early vegetative growth stage at villsge :Hatisar, Block : Bhatli

11. Details of budget utilization

Crop (Provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input	80000	80000	-
	ii) TA/DA/POL etc. for monitoring	6000	6000	-
	iii) Extension Activities (Field Day)	14000	14000	-
	iv) Publication of literature	-	-	-
	Total	100000	100000	0

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				
Dairy Management													
Poultry Management	2	0	0	0	0	50	50	0	0	0	0	50	50
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total	2	0	0	0	0	50	50	0	0	0	0	50	50
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	3	0	11	11	0	64	64	0	0	0	0	75	75
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Processing & cooking													
Gender mainstreaming through SHGs													
Storage loss minimization techniques	1	0	0	0	0	0	25	25	0	0	0	25	25
Value addition	5	0	43	43	0	80	80	0	2	2	0	125	125
Women empowerment													
Location specific drudgery reduction technologies	1	0	1	1	0	0	0	0	24	24	0	25	25
Rural Crafts													
Women and child care	1	0	0	0	0	25	25	0	0	0	0	25	25
Others (Mushroom production)													
Total	11	0	55	55	0	169	194	25	26	26	0	275	275
VI. Agril. Engineering													
Farm machinery & its maintenance	4	56	9	65	29	6	35	0	0	0	85	15	100
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	5	0	0	0	0	125	125	0	0	0	0	125	125
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	2	15	1	16	20	7	27	7	0	0	0	10	50

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Integrated farming														
Seed production														
Production of organic inputs														
Planting material production														
Vermiculture														
Mushroom Production														
Beekeeping														
Sericulture														
Repair and maintenance of farm machinery and implements	1	0	0	0	15	0	15	0	0	0	15	0	15	
Value addition														
Small scale processing														
Post Harvest Technology														
Tailoring and Stitching														
Rural Crafts														
Production of quality animal products														
Dairying														
Sheep and goat rearing														
Quail farming														
Piggery														
Rabbit farming														
Poultry production	1	0	0	0	0	15	15	0	0	0	0	15	15	
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	2	0	0	0	15	15	30	0	0	0	15	15	30	

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				
Fish processing and value addition														
Total														
IX. Production of Input at site														
Seed Production														
Planting material production	1	0	16	16	0	8	8	0	1	1	0	25	25	
Bio0agents production														
Bio0pesticides production														
Bio0fertilizer production														
Vermi0compost production														
Organic manures production														
Production of fry and fingerlings														
Production of Bee0colonies and wax sheets														
Small tools and implements														
Production of livestock feed and fodder	2	0	0	0	0	50	50	0	0	0	0	50	50	
Production of Fish feed														
Mushroom production	2	0	0	0	0	0	0	0	0	0	0	50	50	
Apiculture														
Total	5	0	16	16	0	58	58	0	1	1	0	125	125	
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														
Total														
XI. Agro forestry														
Production technologies														
Nursery management														
Integrated Farming Systems														
Total														
XII. Others (Pl. Specify)														

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			
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Total	7	20	0	20	60	25	85	0	0	0	80	25	105

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops													
Integrated Pest Management	2	10	15	25	8	2	10	0	0	0	18	17	35
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing	2	0	22	22	0	6	6	0	2	2	0	30	30
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													
Total	4	10	37	47	8	8	16	0	2	2	18	47	65

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
Plant Protection	F&FW	Integrated Pest and Disease Management in Finger Millet	1	Off campus	14	11	25	14	11	25
Plant Protection	F&FW	Integrated Pest and Disease Management for medium land Rice	1	Off campus	19	6	25	19	6	25
Plant Protection	F&FW	Integrated Pest and Disease Management for medium land Rice	1	Off campus	13	12	25	13	12	25
Plant Protection	F&FW	Management strategy for Neck Blast Disease in Rabi Rice	1	Off campus	11	14	25	11	14	25
Plant Protection	F&FW	Integrated Pest and Disease Management in Finger Millet	1	Off campus	18	7	25	18	7	25
Plant Protection	F&FW	Integrated Nematode Management in Okra During Kharif Season	1	Off campus	19	6	25	19	6	25
Plant Protection	F&FW	Importance of Tolerance Variety for crop production	1	Off campus	18	7	25	18	7	25
Plant Protection	F&FW	Integrated Pest&Disease Management in Rabi Onion	1	Off campus	15	10	25	15	10	25
Plant Protection	F&FW	Integrated Pest Management	8	Off campus	17	8	25	16	5	21
Plant Protection	F&FW	Management of YMV Disease in Cucumber	1	Off campus	17	8	25	15	7	22
Plant Protection	F&FW	Integrated Disease Management in Kharif chilli	1	Off campus	16	9	25	12	9	21
Plant Protection	F&FW	Management of YMV Disease in Cucumber	1	Off campus	15	10	25	12	10	22
Plant Protection	F&FW	Integrated Disease Management in Pointed Gourd	1	Off campus	13	12	25	12	9	21
Plant Protection	F&FW	Integrated Disease Management in Rabi rice	1	Off campus	12	13	25	10	12	22
Plant Protection	F&FW	Integrated Disease Management	5	Off campus	19	6	25	16	5	21
Plant Protection	F&FW	Preparation of Organic Formulations	1	Off campus	13	12	25	12	9	21
Plant Protection	F&FW	Integrated Management of Direct seeded Rice	1	Off campus	17	8	25	15	7	22
Plant Protection	F&FW	Safe and Judicious use of GLYPHOSATE	1	Off campus	11	14	25	9	11	20
Plant Protection	F&FW	Safe and Judicious use of Pesticides	1	Off campus	9	6	15	6	6	12
Plant Protection	F&FW	Safe and Judicious use of GLYPHOSATE	1	Off campus	8	7	15	6	7	13
Plant Protection	F&FW	Bio control of pests and diseases	2	Off campus	9	6	15	7	6	13
Plant Protection	F&FW	Production of bio control agents and bio pesticides	1	Off campus	10	5	15	7	5	12
Plant Protection	F&FW	Others	2	Off campus	14	11	25	14	11	25
Home Science	F&FW	Improved crop management practices in nutritional garden	2	OFF Campus	0	25	25	0	14	14
Home Science	F&FW	Improved methods of raising vegetable seedlings in nursery	1	OnCampus	0	25	25	0	9	9
Home Science	F&FW	Rearing management of improved poultry	1	OFF Campus	0	25	25	0	25	25
Home Science	F&FW	Value added products of fingermillet	1	OFF Campus	0	25	25	0	25	25
Home Science	F&FW	crop management practices in nutritional garden	1	OFF Campus	0	25	25	0	25	25
Home Science	F&FW	Supplementary feed with azolla for milch cows	1	Off campus	0	25	25	0	0	0
Home Science	F&FW	Production Techniques & feeding practices of super napier fodder	1	OFF Campus	0	25	25	0	25	25
Home Science	F&FW	Storage techniques of greengram	1	OFF Campus	0	25	25	0	25	25
Home Science	F&FW	Raising of vegetable seedlings in nursery	1	OFF Campus	0	25	25	0	25	25
Home Science	F&FW	Use of different weeder for drudgery reduction	1	OFF Campus	0	25	25	0	24	24

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
Home Science	F&FW	Rearing management of Duckery	1	OFF Campus	0	25	25	0	25	25
Home Science	F&FW	Income generation through paddy straw mushroom cultivation	1	OFF Campus	0	25	25	0	25	25
Home Science	F&FW	Early childhood care for farm women	1	OFF Campus	0	25	25	0	25	25
Home Science	F&FW	Value added products of milk	1	OFF Campus	0	25	25	0	25	25
Home Science	F&FW	Value added products of fingermillet	1	OFF Campus	0	25	25	0	7	7
Home Science	F&FW	Value added products of Tomato	1	OFF Campus	0	25	25	0	25	25
Home Science	F&FW	Scientific method of oyster mushroom cultivation	1	OFF Campus	0	25	25	0	25	25
Home Science	F&FW	Value added products of tomato	1	OFF Campus	0	25	25	0	0	0
Home Science	RY	Self employment through planting material production	2	ON Campus	0	15	15	0	15	15
Home Science	RY	Brooding management of improved poultry	2	ON Campus	0	15	15	0	15	15
Home Science	RY	Self employment through Seedling production	2	ON Campus	0	15	15	0	15	15
Home Science	VT	Income generation through mushroom farming	5	ON Campus	0	10	10	0	10	10
Home Science	I S	Formulation of low cost nutrient rich weaning food	1	OFF Campus	0	15	15	0	5	5
Home Science	I S	Preparation of low cost baby food from millet	1	OFF Campus	0	15	15	0	3	3
AG.ENGG	F/Fw	Use and maintainance of paddy transplanter	1	OFF Campus	25	-	25	7	-	7
AG.ENGG	F/Fw	Operation of different bullock drawn farm implement	1	OFF Campus	19	6	25	7	9	9
AG.ENGG	F/Fw	Different tractor drawn machinery , its function and maintainance	1	ON Campus	21	4	25	8	3	11
AG.ENGG	F/Fw	Operation and maintainance of different power operated weeder	1	ON Campus	20	5	25	7	1	8
AG.ENGG	F/Fw	Women friendly farm implement for drudgery reudvton	2	OFF Campus	0	50	50	0	46	46
AG.ENGG	F/Fw	Use of different types of chaffcutter	2	OFF Campus	10	40	50	10	25	35
AG.ENGG	F/Fw	Use of different harvesting equipments in paddy	1	ON Campus	0	25	25	0	25	25
AG.ENGG	F/Fw	Different small interculture operation tools	1	OFF Campus	0	25	25	0	25	25
AG.ENGG	F/Fw	Operation and maitainance of power tiller for puddling	1	OFF Campus	15	0	15	15	0	15
AG.ENGG	F/Fw	Operation and maintainance of tractor drawn seed cum fertilizer drill for direct sowing of different crop	1	OFF Campus	15	0	15	15	0	15
AG.ENGG	F/Fw	Techniques of seedling raising in protray	1	OFF Campus	0	25	25	0	25	25
AG.ENGG	F/Fw	Imp. Of different water conservation techniques in tomato	1	OFF Campus	14	11	25	14	11	25
AG.ENGG	F/Fw	Use of different types of weeders in kharif vegetables	1	OFF Campus	-	25	25	-	25	25
AG.ENGG	F/Fw	Use of different types of weeders in tomato cultivation	1	OFF Campus	-	25	25	-	25	25
AG.ENGG	F/Fw	Use of pulse mill for milling pulses	1	ON Campus	15	10	25	12	7	19
AG.ENGG	F/Fw	Micro irrigation system, its working and maintainance	1	ON Campus	15	10	25-	12	7	19
AG.ENGG	F/Fw	Operation of different power operated millet threshers	1	OFF Campus	25	-	25	15	0	15
AG.ENGG	F/Fw	use of sprinkler irrigation	1	OFF Campus	-	25	25	-	12	12
AG.ENGG	F/Fw	use of tractor drawn seed cum fertilizer drill in groundnut	1	OFF Campus	-	25	25	-	15	15

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
AG.ENGG	F/Fw	Different post harvest management for grains	1	OFF Campus	25	-	25	12	-	12
AG.ENGG	F/Fw	Use of mulching for weed and water management in horticultural crop	1	ON Campus	24	1	25	7	-	7
AG.ENGG	F/Fw	Different post harvest management for fruits	1	ON Campus	25	0	25	12	0	12
Soil Science	F/FW	Biofertilizer application in paddy	1	OFF campus	17	8	25	4	3	7
Soil Science	F/FW	Application of B & Mo for management of browning & whiptail disease in cauliflower	1	OFF campus	21	4	15	7	4	11
Soil Science	F/FW	Sulphur application in onion for enlargement of bulb	1	OFF campus	25	0	25	5	0	5
Soil Science	F/FW	Nutrient management practices in Ragi	1	OFF campus	25	0	25	9	0	9
Soil Science	F/FW	Integrated nutrient management in Paddy	1	OFF campus	25	0	25	11	0	11
Soil Science	F/FW	Foliar application of nano urea fertilizer in transplanted rice	1	OFF campus	16	9	25	8	4	12
Soil Science	F/FW	Nutrient management practices in cotton	1	OFF campus	25	0	25	4	0	4
Soil Science	F/FW	Effect of lime coating and seed treatment in greengram	1	OFF campus	19	6	25	6	0	6
Soil Science	F/FW	Use of LCC for management of Nitrogen in paddy	1	OFF campus	25	0	25	5	0	5
Soil Science	F/FW	Vermicompost production in HDPE polybags	1	OFF campus	25	0	25	1	0	1
Soil Science	F/FW	Micronutrient application in sweetcorn cultivation	1	OFF campus	25	0	25	7	0	7
Soil Science	F/FW	Green manuring in paddy	1	OFF campus	22	3	25	4	1	5
Soil Science	RY	Vermicompost production technology	2	On campus	15	0	15	1	0	1
Soil Science	RY	Importance of soil testing and fertilizer recommendation	2	On campus	15	0	15	3	0	3
Soil Science	IS	Role of organic manure for soil health management	1	On campus	11	4	15	2	1	3
Soil Science	IS	Biofertilizer application for soil improving the physical, chemical & biological properties of the soil	1	OFF campus	13	2	15	3	0	3

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	
Mushroom production	Income generating activities	Income generation through mushroom farming	5	0	10	10	Thatched mushroom production unit	6	6	2
Bio pesticides production	Organic farming	Preparation of organic and Botanical formulation from local	5	15	0	15	11	11	11	3

*training title should specify the major technology /skill transferred

b) Details of participation

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST				F	T	
		M	F	T	M	F	T	M	F	T				
Crop production and management														
Commercial floriculture														
Commercial fruit production														
Commercial vegetable production														
Integrated crop management														
Organic farming														
Other														
Total														
Post harvest technology and value addition														
Value addition														
Other														
Total														
Livestock and fisheries														
Dairy farming														
Composite fish culture														
Sheep and goat rearing														
Piggery														
Poultry farming														
Total														
Income generation activities														
Vermicomposting														
Production of bioagents, biopesticides, biofertilizers etc.	1	2	0	2	6	0	6	7	0	7	15	0	15	
Repair and maintenance of farm machinery & implements														
Rural Crafts														
Seed production														
Sericulture														
Mushroom cultivation	1	0	0	0	0	7	7	0	3	3	0	10	10	
Nursery, grafting etc.														
Tailoring, stitching, embroidery, dying etc.														
Agril. Para-workers, para0vet training														
Total														
Agricultural Extension														
Capacity building and group dynamics														
Other														
Total														
Grand Total	2	2	0	2	6	7	13	7	3	10	15	10	25	

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

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	12	294	196	490	31	12	7	19	306	203	509
KisanMela	4	775	425	1200	32	8	3	11	783	428	1211
KisanGhoshi	12	185	0	185	26	9	3	12	194	3	197
Exhibition	5	832	268	1100	38	16	7	23	848	275	1123
Film Show	28	450	225	675	32	22	7	29	472	232	704
Method Demonstrations	24	346	112	458	28	13	6	19	359	118	477
Farmers Seminar	1	32	18	50	33	2	2	4	34	20	54
Workshop	2	128	72	200	29	4	3	7	132	75	207
Group meetings	28	255	165	420	33	8	4	12	233	169	402
Lectures delivered as resource persons	32	649	311	960	32	7	7	14	656	318	974
Advisory Services	46	102386	15702	118088	28	37	20	57	102423	15722	118145
Scientific visit to farmers field	76	289	78	367	36	31	13	44	320	91	411
Farmers visit to KVK	877	554	323	877	38	41	16	57	595	339	934
Diagnostic visits	48	36	12	48	27	11	6	17	47	18	59
Exposure visits	3	36	4	40	36	7	2	9	43	6	49
Ex-trainees Sammelan	1	18	7	25	26	1	1	2	19	8	27
Soil health Camp	2	74	16	90	24	2	1	3	76	17	93
Animal Health Camp	1	43	7	50	33	3	1	4	46	8	54
Agri mobile clinic	-			-							
Soil test campaigns	12	248	127	375	29	8	4	12	256	131	387
Farm Science Club Conveners meet	16	238	0	238	21	16	6	22	254	6	260
Self Help Group Conveners meetings	15	0	284	284	34	5	16	21	5	288	305
MahilaMandals Conveners meetings	-			-							
Celebration of important days (specify)	6	271	104	375	33	8	4	12	279	108	387
Sankalp Se Siddhi	-			-							
Swatchta Hi Sewa	36	455	216	671	38	24	7	31	479	223	702
MahilaKisan Divas	1	0	50	50	24	0	1	1	1	51	52
Any Other (Specify)											
Total	1288	108594	18722	127316	741	295	147	442	108860	18857	127723

Others (Pl. specify)												
Fisheries												
Indian carp												
Exotic carp												
Mixed carp												
Fish fingerlings												
Spawn												
Others (Pl. specify)												
Grand Total												

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 :	Mr. N. C. Barik
Address :	KVK, Gambharipali, Bargarh
e-mail :	Kvkbargarh.ouat@gmail.com
Mobile :	09437414979

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2023	Arhar	LRG 52	40	5	4	FS
Rabi	Greengram	Virat	30	6	6.2	CS-II

iii) Financial Progress

	Fund received		Expenditure (Rs. in lakhs)		Unspent balance(Rs. in lakhs)		Remarks
	Infrastructure	Revolving fund	Infrastructure	Revolving fund	Infrastructure	Revolving fund	
2022-23	-	-	-	243582	-	-	
2023-24	-	-	-	154453	-	-	

iv) Infrastructure Development

Item	Progress
Seed processing unit	complited, registration not done
Seed storage structure	<i>Completed</i>

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	Bina kharcha re praktikakrushhi	Mr.N.C.Barik,SS&H,KVK,Bargarh Mrs. SusritaSahu, Scientist(Home Sc), Mr. R. D Behera, SMS (Soil Sc.) Mrs. SanghamitraBiswal , scientist (Ag.Engg.)	500	490
	Prustikara mandiaru mulyayukta utapada	Mrs. SusritaSahu, Scientist(Home Sc) Mr.N.C.Barik,SS&H,KVK,Bargarh, Mr. A.K.Sahoo, SMS, Agril Ext. Mrs. SanghamitraBiswal , scientist (Ag.Engg.)	1000	990
	Udbhidupoyogiposhakupadanagudikarakriyakalap, abhabajanitalakshyana o eharanirakarana	Mr. R. D Behera, SMS (Soil Sc.) Mr.N.C.Barik,SS&H,KVK,Bargarh Mrs. SusritaSahu, Scientist(Home Sc), Mrs. SanghamitraBiswal , scientist (Ag.Engg.) Mr. D. jena, Prog. asst. (Seed sc.), Mrs. Prarthana Mohanty Farm Manager, KVK, Bargarh	1000	990
News letter	Dhanushree	All staff	1000	990
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature				
Technical reports	Annual Progress Report 2021	All staff	10	9
	Action plan 2022	All staff	10	9
Electronic Publication (CD/DVD etc)	Natural Farming	Mr.N.C.Barik,SS&H,KVK,Bargarh	5	4
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	Zonal workshop	Zonal workshop of KVKS	Mr.N.C. Barik,, SS&H,KVK, Bargarh	07.06.23-09.06.23	ICAR, Kolkata
2.	Zonal workshop	Zonal workshop on Natural Farming	Mr. N.C.Barik, SS&H ,KVK, Bargarh	16.02.24-17.02.24	ICAR, Kolkata
3.	Refresher training	Refresh training ofPP discipline	Mr .N.C. Barik, SS&H, KVK,Bargarh	16.01.23-18.01.23	DEE,OUAT,BBSR
4.	Refresher training	Early childhood care for working women	Mrs. Susrita Sahu,, Scientist(Home Sc),	07.02.23-08.02.23	DEE,OUAT,BBSR
5.	State Level conclave	OUAT Mushroom conclave	Mrs. Susrita Sahu, Scientist (Home Sc)	.07.01.23	DEE,OUAT,BBSR
6	State Level conclave	Agri journalism conclave	Mrs. Susrita Sahu, Scientist(Home Sc)	11.12.23	DEE,OUAT,BBSR
7	Refresher training	Refresh training of Soil Sc. discipline	Dr. R.D. Behera, SMS (Soil Sc.)	12.02.24-13.02.24	DEE,OUAT,BBSR
8.	State Level conclave	FPO conclave	Dr. R. D . Behera, SMS (Soil Sc.)	12.02.24	DEE,OUAT,BBSR
9.	Refresher training	Big Data Analysis	Mr. Sanat Kumar Meher, Prog. Asst. Computer	16.02.24-17.02.24	DEE,OUAT,BBSR

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

Name of farmer	Prahallad Bhue
Address	Vill/Po/GP/: Hatisara, Block- Bhatli, Dist. Bargarh, Odisha,
Contact details (Phone, mobile, email Id)	Mob:9937198653
Landholding (in ha.)	1.2
Name and description of the farm/ enterprise	<p>Prahalad Bhueis a village farmer Vill/Po/GP/:Hatisara, Block- Bhatli, Dist. Bargarh,Odisha practicing rice cultivation in his two acre land during Kharif and vegetables during rabi season leaving another one acre fallow in every kharif season .The drying and very less grains per panicle during every kharif season made his frustrated due to cessation of rain by end of September forcing his to leave the land fallow .Grazing of domestic animals is also a great problem in his area in semi or less cropped area during kharif. As a result, he was unable to get sufficient crop from his entire land. One day during a farmers-training interaction programme at his village where KVK scientists awaked him about sesamum crop that germinates under low soil moisture and can be successfully cultivated during kharif under drought condition. It is the most preferable crop that resists animals, monkeys, and birds due to offensive odour.</p> <p>After that he decided and took up sesamum in 0.3 ha. land during kharif 2022-23. He was supplied sesamum seed var.Smarak from KVK. He followed Line sowing behind plough 30 cm x 10 cm, Seed treatment with Vitavax Power @ 2.5 gm/kg seed, STBF, Application of <u>Phospho-Gypsum @ 2.5Q/Ha. Spraying</u> of Indoxacarb 14.5 SC @ 1ml/liter of water, Spraying of Carbendazim 12 % % plus Mancozeb 63 % @ 3 gm /Lit of water. He has also kept clean the plot himself after weeding twice manually.</p>
Economic impact	He reaped a very good crop that he had never seen before and harvested153kg of seed from 0.3-hectare land. He sold 100 kg of seeds to other farmers @Rs80/kg, earns a marginable profit as well as used the sticks for fuel purpose.
Social impact	He is happy with the additional income from barren land . He is now able to pay his daughter's tuition fee in timely.
Environmental impact	This is the only profitable crop that can be grown under all odds and particularly during kharif. Being a short duration (75 days) variety, it helped him to plan a sure crop in unbounded uplands of his village for improving economy of local farmers. resourcesThe

	barren land is effectively used for sessamun cultivation as it require less water a&care.Itis also resistant to pest & diseases. So, there is a less chance of environmental pollution due to less use of chemicals.
Horizontal/ Vertical spread	Looking to the success of Sri Bhue 36 farmers of near by villages followed him and decided to go for sessamum in fallow land. .
 	

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
1.	Combine activity with line Departments		Series of activities in a converged way

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
1	Fingermillet	Spraying of cow dung solution in fingermillet.	To control Blast &BLB .

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)
1	Paddy	205	6400q	284	Y
2	Pulse	322	1216q	576	Y
3	Vegetable	230	18860q	1325	Y

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
1	PRA, Survey, Field visit, Group meetings, Farmers scientist interaction,SAC meeting	To identify the problem of Farmers & Farm women
2	Field visit, Query redressal, Diagnostic field visit ,Whatsapp group	To sort out the constraints faced by Rural Youths
3	Strategy meeting of Line departments , Discussion during R-E linkage meeting &bi-weekly meeting	To upgrade the knowledge of In-service Personnel

3.11. a. Details of equipment available in Soiland Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
01	MridaParikshyakSoilTestingKit (Minilab)	3

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			
120	0	120	290	32	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	<ul style="list-style-type: none"> • Seminar • Exhibition 	1000	2	Mr. D. Acharya, MLA, Baragarh	120	542

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
Awareness on importance of fingermillet	1	50	Value added products of fingermillet
Kisan mela	1	Mass	Creating awareness on new Technologies
Awareness camp on Seed treatment	1	30	Seed treatment with seed treating chemicals
Film show	1	25	vermicompost production, poultry rearing
Awareness on Soil test	1	40	Collection &testing of soil sample
Seedling distribution	1	22	Tomato seedling for nutritional garden
Awareness on Natural Farming	1	25	Use of beejamrit&jeevaamrit

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

No of student trained	No of days stayed
18	

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
10.03.23	Mr. Suresh Pujari, Hon'ble M.P, Bargarh	Graced the event "Natural Farming workshop".
30.05.23	Prof. Pravat Roul, V. C, OUAT	KVK Visit
07.04.23	Mrs. Lopamudra Mohanty, Registrar, OUAT	KVK Visit
22.08.23	Mr. Moinak Mukherjee, Deputy Secretary, Ministry of Defence, GOI	KVK visit under Jal shakti Abhijan
30.01.24	Dr. Sarbani Das, JDE, DEE, OUAT	For SAC meeting
30.01.24	Dr. Kalyan Sundar Das, Principal scientist, ICAR-ATARI, Kolkatta	For SAC meeting

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 drought tolerant Rice variety Swarna Shreya	3500	92	9500/ha	26800/ha
Demonstration of Nutritional Garden for Improving Nutritional Security of farm families	2000	86	2150/.02 ha	4100/.02 ha.
Seed treatment with Imidacloprid 600 FS @ 5 ml/ kg seed + Installation of Yellow Sticky Trap @ 50/ha + Spraying Neem oil @ 3ml/ l of water at 30 DAS + Diafenthiuron 50% WP @ 1 gm /l at 45 DAS for controlling YMV in greengram	625	93	9800/ha	15600/ha
Power operated Finger millet thresher for threshing of fingermillet	550	86	Cost of threshing/ q-600	200
Planting by Nov-15 th , well spouted tubers weighing 40 – 50 grams, at 30 cm apart, 15 t/ha of FYM and 2 kg each of <i>Azospirillum</i> and <i>Phosphobacterium</i> as basal and 120 kg N, 240 kg P and 120 kg K/ha in two splits; half as basal and the balance for top dressing on 30 days after sowing for better yield of potato.	375	84	96000/ha	129000/ha

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

4.2. Cases of large scale adoption **Popularisation of sweet corn** (Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread
Popularisation of sweet corn var. Misti ST with Carbendazim, Spacing-75 cm *60 cm with STBF & need based PP measures	Spread in 26 villages of 4 blocks

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
1	Four Sprayings with Acephate @1.5 g/l + Neem oil @ 2 ml/l followed by Fipronil @1.0 ml/l + Neem oil @ 2 ml/l followed by Imidacloprid @ 2 g/15 l + Neem oil @ 2 ml/l followed by Cyazypyr @ 1.8 ml/ l at weekly interval from 45DAT till fruit formation for controlling vector borne diseases in chilli.	Effective management of vector borne disease	Increase in yield by 31.7%
2	Growing of brinjal Hybrid var. Arka Anand Planting the seedling at 75cm X 75cm m with a fertilizer dose of 200: 100:100 NPK kg/ha	Mortality rate has been reduced to a great extent.	Increase in yield by 21.5%
3	Application of lime @0.25 LR (applied 15 days before flowering) along with 50 % N-P2O5-K2O (30-20-20 kg/ha) for better yield in finger millet	Higher yield	Increase in yield by 27%
4	Demonstration of power operated groundnut thresher	Time and money is saved as labour requirement is less.	Output is enhanced from 6.3 to 70 k.g/hr

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	MARVELLOUS MILLET PRODUCTS MAKE MONEY (value added products of millet)
Name & complete address of the entrepreneur	Mrs. Prabhasini Meher Address-At-Gangadhar Nagar, ward No. 14 P.O-Bargarh Dist-Baragarh PIN-768028 Contact No.- 8249624324
Role of KVK with quantitative data support:	<ul style="list-style-type: none"> Mrs. Prabhasini Meher is a young enthusiastic graduate woman of Bargarh district. She always dreamt of to run a business to raise her family income after her marriage. So, she convinced her husband to open a restaurant where she will cook and serve the traditional foods (desi items such as greengramdal, horse gram dal-rice, saga, water rice, yam dishes etc) with a low investment. Gradually in addition to this she took orders and supply foods to the home, offices & meetings.

	<ul style="list-style-type: none"> • One day in a training on value addition of finger millet products of KVK she came in contact with the KVK scientist where she had given the orders to provide the meals for the trainees. • Influenced by the training she has raised her query on the importance and marketing of value added products of finger millet. • Then She was trained on preparation of different value-added products of millets by KVK scientist. • Some products have been displayed by KVK to her. • Five k.g of finger millet has been supplied to her in the training • She was suggested to prepare some millet products on day-to-day basis. • She was advised to sell ragi dosa, idli, uttapam, tea in breakfast, kodo pulao, curd rice in lunch, millet pakoda, bara, samosain snacks & multi millet roti, payasam for dinner. • In addition to these items, she started to sell millet cakes, different types of millet namkeen, mixture, dried samosa, pancakes, & sweets like gulab jamun, laddoo, kalakanda for special occasions..
Timeline of the entrepreneurship development	<p>2021-22- she started a restaurant for serving traditional foods.</p> <p>2022-23- She started to serve millet products after getting training from KVK.</p> <p>2023-24- She renamed her restaurant as “<i>Desi Cafe</i>” to attract more customers. She also shifted her restaurant to a near by panchayat college, Bargarh so that more student will be her regular customer .</p>
Technical Components of the Enterprise	Different millets (Finger millet, Kodo millet, Little millet), Sealing machine
Status of entrepreneur before and after the enterprise	Earlier she used to get net profit of Rs.16500/ month- from her traditional foods in the restaurants.. After getting technical guidance from KVK, she is earning net profit of Rs. 27000/- per month by selling the millet based products at her restaurant.
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	She is very popular for her millet products in Baragarh district. She is at present preparing different types of millet powder from millet seeds to reduce the cost of millet flour.. For her outstanding efforts , She has been awarded by various Institutes & NGOs. Many peoples are also made aware of healthy benefits of consumption of millet products. She has now given employment opportunity to three peoples in her restaurant.
Horizontal spread of enterprise	<ul style="list-style-type: none"> • She is acting as a master trainer for other trainings organised by NGOs. • For her outstanding efforts , She has been awarded by various Institutes & NGOs. • Inspired by her success, many women & SHG members of are now showing their interest towards establishing agro entrepreneurship through millet based Value added products. .



4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
ICAR-IIHR, Bengaluru	Supplying vegetable seeds to KVK
ICAR-NRRI, Cuttack	Agro advisory services, contingent planning, improved paddy sseeds
ICAR-CHES, BBSR	Supply of pineapple suckers
ICAR-CIWA, BBSR	Popularisation of women friendly tools
ICAR-CRIJAF, Bamara	Supply of critical inputs & technologies of Sishal cultivation
Dept. of Agriculture, Bargarh	Creating awareness Campaign on Soil Health and safe use of pesticides, collaborative celebration of special days, Selection of input dealers for insecticide management training, Resource Person for HRD training
Dept. of Horticulture, Bargarh	Resource Person for HRD training, Inspection of nurseries
Animal Resources Dept. Bargarh	Participated in Dist. Level Animal Exhibition & Animal health camp
Dept. of Fishery, Bargarh	Joint field visit, Departmental training prog. at KVK
Watershed Mission	Participated in Meeting & Exhibition organized by the Watershed Dept.
Dept. of women & Child Development & Mission Shakti, BBSR	Capacity Building of women SHGs Developed under Mission Shakti
District Administration, Bargarh	For taking up initiative measures to control pest & disease incidence in the district
Odisha state seed corporation, Bargarh	Production of foundation & certified seed of paddy & Pulses
All India Radio, Sambalpur	Participation in Farm & Home programme, SAC meeting, Radio talks

5.2. List of special programmes undertaken during 2023 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.)
Repair of Boundary wall	For safety purpose	March, 2022	ICAR	494000
Installation of Borewell	For irrigation purpose	March, 2022	ICAR	300000

(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.	Mushroom demo unit			V. volvacea& P. sajorcaju	Mushroom	100	4500	7500	publicsale
	Total								

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	

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.					

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

Sl.No	Nameof the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.							

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)-25

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
November	15	7	
Total :			

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed: Yes Only One

No. of staffquarters: One, Date of completion: 2002

Occupancy details:

Months	Q I	Q II	Q III	Q IV	Q V	Q VI
Jan.2021 -Nov.2021						N.

7. FINANCIAL PERFORMANCE (up to 31.12.2023)

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Contingency (ICAR Funding)	State bank of India	Godbhaga	10777584215
Revolving fund	State bank of India	Godbhaga	30163765041
Seed hub	State bank of India	Kadobahal	36026592693
ATMA (Other than ICAR Funding)	State bank of India	Godbhaga	39378025653
CFLD Oilseeds	State bank of India	Godbhaga	41603817820
CFLD Pulses	State bank of India	Kadobahal	42009894337
Natural Farming	State bank of India	Kadobahal	42009750848
Skill Dev. Training Programme	State bank of India	Godbhaga	42622050226
RPL/Up-Scalling	State bank of India	Godbhaga	42622048398

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April, 2022
	Kharif	Summer	Kharif	Summer	
Sesamum	100000		75000		0
Ground nut		108000		75000	0

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2022
	Kharif	Rabi	Kharif	Rabi	
P. Pea	270000	0	200000	0	0

7.4 Utilization of KVK funds during the year 2022-23

Sl. No.	Items / Head	Sanctioned grant (Council's share)	Opening Balance on 01.04.2022	Grant received (Council's share)	Expenditure (Council's share)	Variation		Reason for variation
						(+)Saving	(-)Saving	
1	2	3	4	5	6	7	8	9
A. RECURRING CONTINGENCIES								
1.	Pay and allowances	-		-	-	-		
2.	Travelling allowances	1,20,000	26,635	1,20,000	119,569	431		
3.	HRD	30,000	21,200	30,000	6,000	24,000		
4.	Contingencies	27,00,000	18,985	27,00,000	25,55,136	1,44,864		
a.	Stationary, telephone, postage & other	2,40,000		2,40,000	2,39,943	57		

	exp. on office running publication of newsletters							
b.	POLs, repair of vehicles, tractor & equipments							
c.	Meals / refreshment for residential and non-residential training							
d.	Training materials (need based material and equipments for conducting the training)	1,80,000		1,80,000	1,79,900	100		
e.	Frontline Demonstration	90,000		90,000	89,980	20		
f.	On-farm testing (on need-based location specific and newly generated information of the major production systems of the area)	90,000		90,000	89,905	95		
g.	Integrated Farming system (IFS)	-		-				
h.	Training of Extension functionaries	-		-				
i.	Extension Activities	-		-				
j.	Farmers' Field School	-		-				
k.	EDP / Innovative activities	-		-				
l.	Soil & Water testing & issue of soil Health cards	-		-				
m.	Display Board0	-		-				
n.	Maintenance of buildings	-		-				
o.	SCSP	21,00,000	4,023	21,00,000	19,55,408	1,44,592		
	Total (A)	28,50,000	66,820	28,50,000	26,80,705	1,69,295		
B. NON-RECURRING CONTINGENCIES								
1	Equipment's & Furniture							
	Procurement of Tractor	7,50,000	0	7,50,000	7,50,000	0		
	Equipment's & Furniture	60,000	2,560	60,000	59,145	855		
	Information Technology	50,000	0	50,000	49,797	203		
2	Works (Boundary wall)	4,94,000	0	4,94,000	4,94,000	0		
	Bore Well	3,00,000	0	3,00,000	3,00,000	0		
3	Vehicle	9,00,000	0	9,00,000	9,00,000	0		
4	Library (purchase of assets like books & journals back volume)	10,000	0	10,000	10,000	0		
	Total (B)	25,64,000	2,560	25,64,000	25,62,942	1,058		
	TOTAL (A+B+C)	54,14,000	48,180	54,14,000	52,43,647	1,70,353		

Utilization of KVK funds during the year 2023 (1.4.2023 to 31.12.203)

Sl. No.	Items / Head	Sanctioned grant (Council's share)	Grant received (Council's share)	Expenditure (Council's share)	Variation		Reason for variation
					(+)Saving	(-)Saving	
1	2	3	4	5	6	7	8
A. RECURRING CONTINGENCIES							
1.	Pay and allowances	105,00,000	-	-	-		
2.	Travelling allowances	1,50,000	1,12,500	42,638			
3.	HRD	30,000	30,000	300			
4.	Contingencies	25,00,000	14,24,000				
a.	Stationary, telephone, postage & other exp. on office running publication of newsletters	3,60,000	2,98,800	4,34,012			
b.	POLs, repair of vehicles, tractor & equipments						
c.	Meals / refreshment for residential and non-residential training	2,70,000	2,25,000	2,39,596			
d.	Training materials (need based material and equipments for conducting the training)						
e.	Frontline Demonstration	1,35,000	1,12,500	1,25,706			
f.	On-farm testing (on need-based location specific and newly generated information of the major production systems of the area)	1,35,000	1,12,500	1,02,747			
g.	Integrated Farming system (IFS)	-	-				
h.	Training of Extension functionaries	-	-				
i.	Extension Activities	-	-				
j.	Farmers' Field School	-	-				
k.	EDP / Innovative activities	-	-				
l.	Soil & Water testing & issue of soil Health cards	-	-				
m.	Display Board0	-	-				
n.	Maintenance of buildings	-	-	-	-	-	-
o.	SCSP	16,00,000	13,44,500	11,87,370			
	Total (A)	26,80,000	22,45,800	21,32,369			
B. NON-RECURRING CONTINGENCIES							
1	Equipments& Furniture						
	a) Equipments& Furniture	1,00,000	0	0	0		
	b) Information Technology	0	0	0	0		
2	Works (Irrigation Channel)	0	0	0	0		
3	Vehicle	-	-				
4	Library (purchase of assets like books & journals back volume)	10,000	10,000	0	0		
	Total (B)	1,10,000					
C. Revolving Fund							
	TOTAL (A+B+C)	27,90,000	22,55,800	21,32,369			

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 31 st December of each year (Kind + cash)
2015-16	0.22	17.21	14.84	2.46
2016-17	2.46	2.30	5.16	0
2017-18	0	4.20	6.84	2.64
2018-19	2.64	9.53	6.56 + 5.0 (Profit Deposit toDEE, OUAT) = 11.56	0.61
2019-20	0.61	5.71	5.56	0.26
2020-21	0.26	10.26	4.20 + 4.50 (Profit Deposit toDEE, OUAT) = 8.90	1.72
2021-22	1.72	6.73	4.15 + 2.5 (Profit Deposit toDEE, OUAT) = 6.65	1.98
2022-23	1.98	4.13	5.49(Profit Deposit toDEE, OUAT) = 0.50	0.12
2023-24	0.12	12.55	10.78 (Profit Deposit toDEE, OUAT) = 6.50	1.89

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-value added products from rice, fingermillet& vegetables.Mushroom production, Duckery, poultry, Dairy management,vermicompostproduction,Use of gender friendly farm tools, vegetable cultivation,

(iii) Details of marketing channels created for the SHGs- Marketing of vegetables has been channelized to Sambalpur, Jharasugarh& Bhubaneswar market &paddy straw mushroom to near byBargarh&Attabira NAC market

7.7. Joint activity carried out with line departments and ATMA

Nameof activity	Number of activity	Season	With line department	With ATMA	With both
Research-Extension linkage meeting	6	Kharif & Rabi	-	-	Both
Celebration of special days (KrishakDiwas, World Food Day, Women in Agriculture Day, Mahila Kisan Divas, y etc.)	6	Kharif & Rabi	-	-	Both
Field visit	89	Kharif & Rabi	-	-	Both
Dist. Level Farmers Fair	3	Rabi	-	-	Both
Dist. Strategy meeting	2	Kharif & Rabi	-	-	Both
Selection of NGOs for Millet Mission	4	Kharif & Rabi	CDAO, Baragarh	-	-

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)
BPH	Paddy	18.09.23	800	54	42000
Blast	Fingermillet	17.10.23	60	52	1200

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)
Foot & mouth disease	Local young calves	07.11.2022	12	200	800

9.1. Nehru YuvaKendra(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/ SMSPortal)

Type of message	No. of messages	No. of farmers covered
Crop	17	118145
Livestock	1	-
Fishery	1	-
Weather		-
Marketing		-
Awareness	4	118145
Training information		-
Other	1	118145
Total	24	118145

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	118145
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
02.10.23	Cleaning of village surroundings at Naikenpali
03.10.23	Awareness prog. at Jhiliminda
04.10.22	Vemicompost production at khalkhalitikra
05.10.22	Crop residue management at Dechuan
06.10.22	Cleaning of cow shed at Gurkhapali
07.10.23	Vemicompost production at cheptibahal
09.10.23	Crop residue management at village Gopalpur
10.10.23	Use of waste water in horticultural demo unit
11.10.23	Swachhata rally at village Karnatikravill
12.10.23	Village surrounding cleaning
13.10.23	Awareness prog. at KVK during celebration of world Egg Day
14.10.23	Vemicompost production at Tala
15.10.23	Plantation prog. at Jahnapada
16.10.23	Awareness prog. at KVK campus on the eve of world food day
17.10.23	Cleaning of KVK Campus
18.10.23	Crop residue management in KVK Field
19.10.23	Cleaning of office campus on the eve of KVK foundation day
20.10.23	Cleaning of poultry unit at Katapali
25.10.23	Weeding at KVK
26.10.23	Swachhata campaign at village Gudesira
27.10.23	Awareness campaign at village Baragaon
30.10.23	Plantation prog. at village Kansingha
31.10.23	Vemicompost production at Nalichuan

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	8	-
2. Basic maintenance	5	3200
3. Sanitation and SBM	11	2000
4. Cleaning and beautification of surrounding areas	13	8500
5. Vermicomposting/Composting of biodegradable waste management & other activities on generate of wealth for waste	4	7500
6. Used water for agriculture/ horticulture application	4	1200
7. Swachhta Awareness at local level	5	2000
8. Swachhta Workshops	1	1500
9. Swachhta Pledge	1	
10. Display and Banner	4	2000
11. Foster healthy competition	1	100
12. Involvement of print and electronic media	1	
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	1200	4200
14. No of Staff members involved in the activities	14	-
15. No of VIP/VVIPs involved in the activities	3	
16. Any other specific activity (in details)		
Total		32200

9.6. Observation of National Science day

Date of Observation	Activities undertaken

9.7. Programme with SeemaSurakshaBal/ 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 Swachhta Hi Surakshaprogramme(16-31.12.2022) organized

Sl.No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)

9.10. Details of MahilaKisan Divas programme(15.10.2022) organized

Sl.No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
15.10.23	<ul style="list-style-type: none"> • Promoting SHG activity • Distribution of Nutritional garden kit and seedlings • Felicitation to best Farm women 	1	50	1	Mr. A. K. Sahoo, CDAO, Bargarh

9.11. 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
1	Mr. Surendra Barik	Gopalpur, Bhatli, 9348574800	Groundnut
2	Sri.Jagadananda Padhan	Gudesira ,Baragarh7809389860	Natural Farming
3	Sri jayanta Sahoo	Nuagarh, Bhatli9348374402	Mango rchard
4	Sri Jaya kumar Behera	Remenda, Bheden,8327734630	Poultry
5	Sri Satya narayan Mahananda	Cheptibahal,Sohela99 38817610	Sweet corn
6	Sri Gokul Barik	Gurkhaplai, Attabira, 6371351282	vegetable
7	Sri Susanta Naik	Barapali, Baragarh9337564041	Fishery
8	Sri Balgopal Bhoi	Bhoitikra, Barapali7008141461	Farm Machinaries
9	Smt. Ilabati Meher	Boromunda, Barapali,7735332281	Mushroom
10	Mrs. Prabhasini Meher	GangaNagar, Baragarh, 8249624324	Value added products of millet

9.12. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Sponsored Training		ATMA
2.			

9.13. Resource Generation:

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

9.14. Performance of Automatic Weather Station in KVK

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

9.15. Contingent crop planning

Odisha	Bargarh	ICM	5	310	Foliar application of 1%Pottasium nitrate or 2%Kaolinite clay is recommended to increase drought tolerance.
		IPM	4	285	Spraying of Triflumesopyrim 10SC @94ml/acre or Clothianidin50WDG@10gm/acre to control BPH Population.
		INM	2	80	Spraying of 2 % borax to control cracking in cauliflower
		IWM	2	150	Spraying of Bisprbac sodium to control weed in Kharif paddy
		CRP	6	300	Gap filling should be done to compensate poor germination of paddy seedlings due to early seasondrought

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						

11. Celebration of World Food Day in 2021

Sl. No.	Activities undertaken	No. of VIPs attended	No. of participants		
			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	

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		

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	

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		

Capacity building

Thematic area	No of Courses	No of beneficiaries											
		SC		ST		Other		Total					
		M	F	M	F	M	F	M	F	T			

Extension activities

Thematic area	No of activities	No of beneficiaries											
		SC		ST		Other		Total					
		M	F	M	F	M	F	M	F	T			

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
1	Best FPO Award of Bargarh district	BhatliFPCL	2023	OUAT, BBSR	-	Felicitation of FPO on the eve of OUAT Foundation Day
2	Best FPO Award of Bargarh district	Budhasambar Dal & veg. FPCL	2023	OUAT, BBSR	-	Felicitation of FPO on the eve of OUAT Foundation Day
3	Best FPO Award of Bargarh district	Krushnahira FPCL, Jharabandha	2023	OUAT, BBSR		Felicitation of FPO on the eve of OUAT Farmers' Fair (Agri-Edu Fair)

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	Demonstration of Tractor operated multi-crop seed cum fertilizer drill for direct seeding of rice	Sowing is done by tractor operated seed cum fertilizer drill	25000/ha	220	
2	Demonstration of Integrated Management of vector borne viral diseases of chilli	Four Sprayings with Acephate @1.5 g/l + Neem oil @ 2 ml/l followed by Fipronil @1.0 ml/l + Neem oil @ 2 ml/l followed by Imidacloprid @ 2 g/15 l + Neem oil @ 2 ml/l followed by Cyazypyr @ 1.8 ml/ l at weekly interval from 45DAT till fruit formation	133960/ha	115	
3	Popularisation of wilt resistant brinjal var. Arka Anand	Planting the seedling at 75cm X 75cm m with a fertilizer dose of 200: 100:100 NPK kg/ha	139240/ha	120	
4	Demonstration of sweetcorn	Sweet corn var-Misti, Medium tall (150-155cm), lodging resistant, yield- 9.5-10.5 t/ha, Spacing 75cm x 45 cm, STBF	74000	110	

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
5	Demonstration on nutrient management in Finger millet	Application of lime @0.25 LR (applied 15 days before flowering) along with 50 % N-P2O5-K2O (30-20-20 kg/ha)	32644	130	

18. a) Information on **ASCI** Skill Development Training Programme, if undertaken during 2021

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 2021

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	
Farm Mechanisation	STRY on Farm Mechanisation	56	2	0	4	0	9	0	15	0	15	42,000

19. 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

20. Specific programmes for the period

i. Achievements in SCSP (Scheduled Caste Sub-Plan) (Specific for SC farmers only)

Sl. No.	Activity	No. of SC farmers/ stakeholders		
		Male	Female	Total
1	On- farm trials	18	4	22
2	Frontline demonstrations	76	34	110
3	No. of Training programmes for farmers	34	11	45
4	Farmers trained	850	275	1125
5	No. of Training programmes for Extension Personnel	4	2	6
6	Extension Personnel trained	29	16	45
7	Participants in extension activities	3224	1641	4865
8	Distribution of seed	168	74	242
9	Planting material distributed	482	216	698
10	Livestock strains and fingerlings distributed	32	40	72
11	Soil, water, plant, manures samples tested	47	2	49
12	Mobile agro-advisory provided to farmers	32200	4800	37000
13	Other (Please specify)			

ii. Capacity building of farmers through training on Profitable Dairy Farming and Livestock Management (In case your KVK has Scientist (Animal/Veterinary Science))

Sl. No.	Title of the training	Date/ Duration	No. of Participants								
			SC		ST		Other		Total		
			M	F	M	F	M	F	M	F	

iii. Status of Natural Farming

Crop/ Commodity involved in Natural farming	Area covered under such farming (ha)	No. of farmers practicing Natural farming at present	Details of individual farmers (Name and Contact No.)	Organic component/ inputs used for such farming
Green gram	134	250	Attached in Annexure-2	FYM, Mustard, OILCAKE, Jeevamrut, Bijamrut, Cowurine, woodash, local seeds
Mustard	72	100		FYM, Mustard, OILCAKE, Jeevamrut, Bijamrut, Cowurine, woodash, local seeds
Cowpea	34	65		FYM, Mustard, OILCAKE, Jeevamrut, Bijamrut, Cowurine, woodash, local seeds
Maize	60	132		FYM, Mustard, OILCAKE, Jeevamrut, Bijamrut, Cowurine, woodash, local seeds

iv. Farmer Producer Organizations

a) General information

Sl. No.	Name & Address of FPO	Name & Contact No. of Head of FPO	No. of farmer members of FPO			Crop/ Enterprise dealt with by FPO	Kind of support provided by KVK in running/ starting of FPO (in brief)
			M	F	T		

b) Financial information

Name & Address of FPO	Date of Registration	FPO Registered (Y/N)	Application Submitted for Registration (Y/N)	No. of share-holding farmer members	Equity Amount Collected (Rs.)	Bank Account Opened (Y/N)	Board Reconstituted after attaining minimum membership (Y/N)

v. Nutri-gardens (Village wise)

Sl. No.	Name of village	Name of crop	Area under the crop (acre)	No. of farmers			Whether bio-fortified variety of crop used (If yes, mention variety & crop)
				M	F	T	

vi. Progress report on scientific beekeeping (2020-21 & 2021-22)

Name of KVK	Total budget allotted (Rs.)	Total budget utilized (Rs.)	Physical Training organized			Online Training organized				
			No. of training	No. of participants	total	No. of training	No. of participants	total		
				M	F	T		M	F	T

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

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

Proceedings of the 20th Scientific Advisory Committee (SAC) Meeting KVK, Bargarh

The 20th Scientific Advisory Committee meeting of KVK, Bargarh was held on 19.01.23 at 10.00 am in KVK Conference Hall under the Chairmanship of Prof. B. D. Pradhan, representative of Hon'ble Vice chancellor, OUAT, Bhubaneswar. The members present in the meeting are given in Annexure-I. Mr. N.C. Barik, Sr. Scientist & Head deliberated welcome address. The meeting was inaugurated with lighting of lamp jointly by the Chairman along with Dr. A. Haldar, Principal Scientist, ATARI, Zone-V, Kolkata, Dr. A. Khuntia, JDE (Monitoring). After a brief introduction about the members, the Chairman requested to present the proceedings as per the agenda.

Agenda – 1: Approval of the proceedings of the last SAC meeting

The Senior Scientist & Head stated that the proceeding of the 19th SAC meeting was circulated to all the members. He also presented the proceeding on brief. The Chairman taking the consent of the members approved the proceedings.

Agenda – 2: Action taken on the proceeding of the last SAC meeting

The Senior Scientist & Head presented the action taken on the recommendation of the last SAC meeting as detailed below.

Sl No	Recommendations	Action taken
1	Promotion of processing machines & value addition of finger millet	<ul style="list-style-type: none"> • FLD on Power Operated Finger millet thresher for drudgery reduction of farm women has been done during Rabi-2022-23. (A total of 6 SHGs were benefited in 3 blocks of Bargarh district by this thresher) • Training was also imparted to 75 no. of beneficiaries spreading the awareness of millet processing machines. • Training and demonstration has been imparted on value addition of finger millet to 125 no. of farm women of 3 blocks in collaboration with NGO at Paikamal , Sohela, Gaisilet.
2	IPM Brinjal in Organic way	<ul style="list-style-type: none"> • FLD has been undertaken during Kharif season. (2000 seedlings of var. Arka Anand have been provided to 15 farmers in 2 blocks –Attabira & shohella) • Training will also be conducted on IPM Practices in Brinjal to 50 farmers
3	Development of region specific crop calender for Bargarh District	<ul style="list-style-type: none"> • One crop calender showing different crop management windows has been prepared and submitted to CDAO Office for reference
4	Expansion of Off season vegetables & massive tomato cultivation	<ul style="list-style-type: none"> • 4500 Cabbage (Pusa Mukta), 3600 cauliflower (Pusa early synthtic, pusa Deepali), 8000 Tomato seedlings (A. Rakshak ,A. Apeksha,A. Vishesa) were supplied to 110 beneficiaries covering 3 blocks of Bargarh district.
5	Promotion of suitable poultry breed for backyard.	<ul style="list-style-type: none"> • 800 chicks of kaveri & kalinga brown breed has been provided to 7 farmers covering 4 villages of 3 blocks under OFT programme. • Training has also imparted on Rearing management of improved poultry to 125 Farmers. • 1000 no. of Leaflet on popularisation of Kadaknath poultry has been published.
6	Popularisation of Small Tools and Machineries	<ul style="list-style-type: none"> • Small drudgery reducing farm implements (50 no. of improved sickle, Bhendi plucker, 15 no. of rake weeder and 20 no. of hand hoe) were distributed to 80 no. of beneficiaries of 3 blocks under SCSP programme 2022-23. • Training was given to 50 no. of beneficiaries on small farm tools and machineries.

SI No	Recommendations	Action taken
7	Expansion of third crop in Bargarh District.	<ul style="list-style-type: none"> 55 kg of sesamum (Smarak from KVK Farm & CFLD programme) has been collected for demonstration and distributed to 25 farmers under SCSP programme during current season
8	Promotion of grafted brinjal for wilt management	<ul style="list-style-type: none"> OFT undertaken covering 3 villages in 3 blocks (Bhatli, Attabira, Bargarh) involving 10 farmers One training has been imparted on improved crop management of Brinjal to 25 farmers.
9	Popularisation of different HYV fingermillet with aphid and stem borer management.	<ul style="list-style-type: none"> One millet cafeteria has been done at village in collaboration with NGO at village and exhibited to 110 farmers during Field Day. Three Trainings on IPDM in finger millet have been provided to 90 farmers at Bijepur & Gaisilot Block during last Kharif Season.
10	Awareness camp for FPOs on cultural practices against insect pest management	<ul style="list-style-type: none"> 4 no. of trainings has been imparted on proper pest disease management in cole crops to 100 farmers from 6 villages. 5 diagnostic field visits were made covering 60 farmers of 9 villages and were suggested adequate pp measures particularly on DBM management in cauliflower of Bargarh Block.
11	Popularizations of bio-fortified Sweet Potato	<ul style="list-style-type: none"> One FLD has been conducted involving 10 farm women at village Ainlapali, Dupalpali, Banjhipali, Baulsingha (Var. Bhusona). Trainings have been imparted to 50 farm women on ICM practices of bio-fortified sweet potato.
12	Promotion of Aromatic plants in Bargarh district	<ul style="list-style-type: none"> One small cafeteria covering Lemon grass, has been established in KVK campus. 65 farmers has been trained for its production.
13	Capacity building of Dairy farmers and Promotion of Smart Napier grass	<ul style="list-style-type: none"> Cafeteria made at kvk campus 500 cuttings supplied to farmers for multiplication. 50 farmers has been trained for its production
14	More Trainings for NGO members on fruits, vegetable and cash crop.	<ul style="list-style-type: none"> Six Trainings has been provided to 150 farmers in collaboration with NGO Debadatta club & New life foundation etc on preservation of fruits and vegetables, Processing of Dal and Pinda cropping of pulses

Agenda – 3: Achievements made by KVK-

The Senior Scientist & Head presented the overall achievements of KVK activities conducted during 2022-23. A total of eight numbers of On farm trials involving 56 beneficiaries, eighteen Frontline Demonstrations in 13.6 hectares area covering 180 farmers, 1650 farmers were trained in 72 trainings and 89000 farmers were covered under different extension activities like farmers fair, Diagnostic field visits, input sale etc. Some of the salient achievements of the OFT & FLD are given below.

- Two suitable varieties of tomato i.e. Arka Apekshya & Arka vishesha have tested against local varieties. It has been found that more puree can be prepared from Arka apekshya with a yield of 326 q/ha than Arka vishesha of 312 q/ha & utkal kumarai of 253q/ha.
- Three wheat varieties HD 2894, RVW 4106, CG 1023 were tested for High Yielding varieties of Wheat for Irrigated Medium land in this district. Out of which RVW 4106, have produced effective tiller no. 14/hill with an max. yield of 24.5Q/ha.

- Planting of potato on the month of November showed higher yield i.e. 120.3q/ha more than Oct. (109.2q/ha) followed by Dec. (106.1q/ha).
- Two chili varieties resistant to leaf curl virus Arka Tejasvi (IIHR,2021) & Kashi Abha (IIVR,2019), were tested against FP var. Kisan & produced yield of 213 & 197 q/ha which are 11.7% & 5.5% more than farmer's variety respectively.
- Seed treatment With Carbosulfan 25 EC @5ml/kg of seeds followed by spraying of Spinetoram 6% & Methoxyfenozide30SC@375ml/ha has been founded to be effective control the YSB management in direct seeded rice (DSR) with a yield of 32.45 q/ha than Seed treatment with imidacloprid 70 WS @ 5ml/kg seed with Flubendiamide 240 SC & Thiachloprid 240 SC @ 300 ml/ha which produced a yield of 34.23 q/ha and Seed treatment of Vitavax power (Carboxin 37.5% +Thiaram37.5%) @ 2.5gm/kg seed having a yield of 23.78 q/ha in farmers practice.
- Bio-fortified sweet potato varieties Bhu sona were demonstrated against local variety for raising the nutritional status of the community. Bhu sona produced higher yield i.e. 184 q/ha than 116 q/ha in local variety.
- Vegetable consumption (gm./member/day) has been increased from 188 to 292 gm through adoption of intervention practices in nutritional garden such as growing vegetables round the year covering leafy vegetables, Solanaceous vegetables, Roots and Tubers, cucurbits suiting to consumption pattern.
- The Working capacity has been increased from 3.4 to 27 kg./hr for Processing of dal through Mini Dal mill.
- Soil application of bleaching powder @ 15 kg/ha and Soil amendment with lime (Calcium carbonate) @ 1t/ha at 7 days & 10 days before transplanting followed by Seedling root dip for 30 minutes in streptomycin solution @ 200ppm/l of water and Soil drenching with 0.3% copper oxychloride thrice at 10 days interval starting from 20 DAT for management of Bacterial wilt in tomato produced a better yield of 198.32 q/ha than spraying of Metalaxyl8%+Mancozeb64% @2.5gm/lit after appearance of the symptom with a yield of 123.25q/ha.
- Application of Neem cake@200kg/acre and Pheromone trap and Clipping of infested twigs and 4 times spraying of 5 % NSKE in brinjal produced a yield of 253.25 q/ha. than two Spraying of Cartap Hydrochloride50SP@1.5gm/lit which produced a yield of 159.36 q/ha.
- The working capacity has been increased from 12.5 to75.5 kg./hr during threshing of finger millet with power operated fingermillet thresher.
- Drought tolerant Rice variety Swarna Shreya yielded 52.5 q/ha which is 48.7 % more than MTU 1010 in transplanted Rainfed Medium land.
- The wilt resistant brinjal Hybrid variety Arka anand produced a yield of 294.2 & 266.4 q/ha which is 22.2% more than farmer's variety VNR -218.
- The net income has been increased from Rs. 4350 to 4550 per hundred beds through the production of Paddy straw mushroom with crumbled straw(5kg straw, Pulse powder 3%,Soaking period 5hr) than the bundled straw.
- The labour required for weeding in transplanted paddy has been reduced from 23 to 4 per ha. by using a mechanical weeder.

Under Cluster Frontline Demonstrations:

Pigeonpea var. PRG 176 covering 40 ha. area involving 125 farmers produced an yield of 9.68q/ha in demo plots against 5.78 q/ha from farmers field. Whereas sessamum var. Smarak covering 20 ha. area involving 60 farmers produced an yield of 5.12 q/ha in demo plots against 2.76 Q/ha from farmers field in kharif season. Mustard var. sushree has been demonstrated in 10 ha. area involving 30 farmers in in rabi season.

Other Extension Activities:

Several activities such as Three no. of exhibition (1200 farmers), six Field Days (330farmers), celebration of Nutrition Maah(400farmers & farm women),ten numbers of Film Show,eight no. of soil awareness campaign (320 farmers), one Animal Health Camp (50farmers),National Handloom day (50 farmers), celebration of parthenium week (120 farmers), Mahila Kissan Diwas (50 farmwomen), World Food Day (100 farmers) , Capacity building of FPO-BOD members (50 BOD members), Awareness campaign on Jal Shakti Abhijan (500 Farmers), four no. of radio talk ,Swachhata abhijan (600 famers) have been organised.

Agenda – 4: Action Plan-

The Senior Scientist & Head presented the action plan for 2023-24 as per the recommendation of the SAC meeting, RE meeting feedback of extension personnel, Problems identified by the scientists during the Field visit, ZREAC meeting of Agro-climatic zone, SLREC meeting of the state, Zonal workshop of ICAR-ATARI, Zone -V, Kolkata. The KVK has planned to conduct 8 OFTs, 16 FLDs, 72 nos. of training and other extension activities. OFTs on Assessment of chemical methods of control of seedling blight disease of Finger millet, Assessment of Efficacy of biopesticides for the management of *M. incognita affecting Okra* , Assessment of Method of planting in Pigeon Pea in Upland Situation , Assessment of puddled rice with different water saving irrigation method, Assesment of in-situ soil moisture conservation methods in tomato raddish sequence , Assessment of processing and packaging methods of tender jackfruit , Assessment of the improved techniques for cultivation of Paddystraw mushroom (*Volvariella volvacea*) using crumpled straw, Assessment on use of plant growth regulator to check flower & fruit drop in mango, Assessment of Spine gourd variety for more yield will be taken up. Under FLD Demonstration Integrated Management of vector borne viral diseases of chilli , Popularization of IDM packages for cucurbit diseases , Demonstration of Management of the purple blotch disease of onion , Popularization of Package of practices for YSB management in direct seeded rice (DSR) , Demonstration on IWM in cotton, Demonstration on Sustainable Intensification of rice fallows , demonstration on pineapple as an intercrop in mango orchards, Demonstration of amc for yield enhancement in chilli , Demonstration on Protray /Polythene planting technology in Water melon ,Popularisation of Bunch feeding of Banana, Demonstration of Tractor operated multi-crop seed cum fertilizer drill for direct seeding of rice, Demonstration of Tractor Operated Straw Baler for collection of Paddy straw , Demonstration of power operated groundnut thresher , Demonstration of walk behind 6 row paddy transplanter , Demonstration of improved poulktry breed RIR in backyard, Demonstration of mango leather, Popularization of tomato var. Arka Apekshya for value added products (Puree)of Tomato. Demonstration on new packaging material (insecticide incorporated polypropylene bags – zero fly) on storability of green gram seed, Demonstration of Nutritional Garden for Improving Nutritional Security of farm families, Demonstration on Marigold variety Bidhan marigold-2 will be conducted during 2022-23.

Agenda – 5: Constraint of the KVK

1. Non availability of Staff Quarter,
2. Position of KVK at one corner of the dist.
3. Water leakage from roof of the administrative building
4. Short and straight approaching road from main road (SH-54 to KVK).

Agenda – 6: SAC Recommendation

The following action points were suggested by SAC members.

1. Promotion of third crop in Bargarh district.
2. Seedling blight disease management of Finger millet should include both fungicide & nutrient treatment.
3. Development of region-specific crop calendar with KVK intervention.
4. Promotion of suitable poultry reed for backyard.
5. Expansion of off-season vegetables such as cabbage, cauliflower & tomato.
6. Crop diversification with pulses & vegetables in paddy areas.
7. Better marketing strategy for vegetables to reduce wastage.
8. Promotion of greengram & blackckgram in rice-fallow areas
9. Strengthening of FPOs activities with help of NABARD.
10. Promotion of labelling, packaging with registration of value-added products of SHGs.
11. Promotion of super & smart napier grass.
12. Field survey necessity for promotion of wheat crop.

13. Intensification of rice –fallow with lentils should be evaluated.
14. Introduction of Paddy-mustard-paddy in seed drill.
15. More skill trainings & income generating training of long duration to be included.

Annexure – I

Sl. No.	Name	Designation & Address	Member / Invitee
1.	Dr. B. D. Pradhan	Prof. & HoD, Dept. of PBG, CA, OUAT, Representative of Hon'ble Vice-Chancellor, OUAT, Bhubaneswar	Chairman
2.	Dr. A. Halder	Director, ATARI Zone-V	Member
3.	Prof. A Khuntia	JDE, Extension, OUAT, BBSR	Member
4.	Mr. G. Padhan	ADH, Padampur	Member
5.	Mr. H. Behera	DDM, NABARD, Bargarh	Member
6.	Dr. S.K.Bhaudeka	JD, CCBF, Chiplima	Member
7.	Mr. R.G. Dash	Dy. CEO, ORMAS	Member
8.	Dr. A.C. Dash	FS, SRF, Gambharipali, Representative of ADR, RRTTS, SBP	Member
9.	Mrs. P. Pradhan	AAO, Attabira, Representative of CDAO, Bargarh	Member
10.	Dr J.P.Behera	BVO, Attabira, Representative of CDVO, Bargarh	Member
11.	Mrs. M. Sahu	Farmwomen, Katapali,	Member
12.	Mr. D. Patra	Farmer, Ludupali, Ambabhona	Member
13.	Mr. G. Mendali	Farmer	Member
14.	Mrs. R.Bhoi	Farmwomen, Ainlapali	Member
15.	Mr. K. Sahu	Transmission Executive, AIR, Sambalpur	Member
16.	Mr.S.Sahu	NGO, Bhitibhumi NGO	Member
17.	Mr. R.Mahapatra	AHO, Attabira	Invitee
18.	Mr. K.Deep	Chairman, NLFT, Bargarh	Invitee
19.	Mr. B. Bagarhi	ARC, Bhitibhumi NGO	Invitee
20.	Mr. J.Karna	FPO Director, Bhatli	Invitee
21.	Mr. S. Nanda	FPO, Bhatli	Invitee
22.	Mr. S.C.Sahu	AHO, Bargarh	Invitee
23.	Dr. S. Srichandan	SS&H, Sambalpur	Invitee
24.	Dr. B. Pattnaik	SS&H, Sonapur	Invitee
25.	Dr T. Khandaitray	Scientist, (PP), KVK, Sonapur	Invitee
26.	Dr. R. D., Behera	SMS, (Soil Sc), KVK, Balangir	Invitee
27.	Mr. N. C. Barik	SS&H, Bargarh	Member-Secretary

22. Good quality action photographs (with proper caption) of overall achievements of KVK during the year (best 10)

		
<p>Assessment of chilli varieties against leaf curl virus disease</p>	<p>Assessment of suitable varieties for value added products (Pure) of Tomato.</p>	<p>Assessment of chemical methods of control of seedling blight disease of Finger millet</p>
		
<p>Assessment of nano urea liquid fertilizer in transplanted rice</p>	<p>Assessment of in-situ soil moisture conservation methods in tomato raddish sequence</p>	<p>Assessment of the improved techniques for cultivation of Paddy straw mushroom (<i>Volvariella volvacea</i>) using crumpled straw</p>
		
<p>Popularisation of sweet corn for more income</p>	<p>Demonstration of drought tolerant Rice variety Swarna Shreya in DSR</p>	<p>Popularisation of wilt resistant brinjal var. Arka Anand</p>



Popularization of IDM packages for diseases of Pumpkin



Popularization of Tube rose var. Prajwal in Bargarh District



Demonstration on nutrient management in cotton



Demonstration on nutrient management in Ragi



Demonstration of Tractor operated multi-crop seed cum fertilizer drill for direct seeding of rice



Demonstration on preparation of Ragi (Finger millet) Malt Powder



Demonstration of power operated groundnut thresher



Demonstration on pineapple as an intercrop in mango orchards



Demonstration of tractor drawn seed cum fertilizer drill for groundnut



Demonstration of drought tolerant Rice variety Swarna Shreya in DSR



Demonstration of walk behind 6 row paddy transplanter



Demonstration on Quail farming under intensive system for income generation



Demonstrations on drought tolerant rice varieties Swarnashreya (SCSP)



IPDM in nutritional garden through sprayer (SCSP)



Lemon Saplings for Nutritional garden (SCSP)



Demonstrations drought tolerant Ragi vrietie-Arjun (SCSP)



Demonstrations on garden rake (SCSP)



,Establishment of mango orchad in sc farmers field(SCSP)

		 <p>Latitude: 21.194119 Longitude: 83.651715 Elevation: 162.89253 m Accuracy: 11.1 m Time: 05-10-2023 16:58 Note: Chandipali</p>
<p>ORCHADS,REARING OF YEARLINGS(SCSP)</p>	<p>Shednet for Mushroom production unit (SCSP)</p>	<p>Net for trellis system (SCSP)</p>
	 <p>Latitude: 21.59502 Longitude: 83.373758 Elevation: 205.6927 m Accuracy: 8.6 m Time: 12-08-2023 09:10 Note: Baudharhi Ruchda</p>	 <p>CFLD PULSES KALP, JALPA 0000-0000-0000, 000 000 000</p> <p>SRMP AI QUAD CAMERA Shot on mobile</p>
<p>Cluster demonstration on pulse (Pigeon Pea)</p>	<p>Cluster demonstration on pulse (vegetative Stage)</p>	<p>Cluster demonstration on pulse (Maturing Stage)</p>
 <p>31/08/2023 18:31</p>		 <p>GPS Map Camera</p> <p>Gopalpur, Odisha, India Gopalpur, Odisha 768030, India Lat 21.447607° Long 83.56079° 01/11/23 02:20 PM GMT +05:30</p>
<p>Cluster demonstration on oilseed crops (Sesamum)</p>	<p>Cluster demonstration on oilseed crops (vegetative stage)</p>	<p>Cluster demonstration on oilseed crops(Harvesting stage)</p>



Qualityplanting material production:



Qualityplanting material production:



Qualityplanting material production:



Vermicompost Unit



Duckery unit



NADEP compost Unit



Roseary unit



Bioinputs unit



Azolla production unit

Latitude: 21.349607
Longitude: 83.842357
Elevation: 231.09±13 m
Accuracy: 1.5 m
Time: 25-08-2023 12:30
Note: visiting of farm women to rose garden of kvk, bargarh

Latitude: 21.358427
Longitude: 83.842275
Elevation: 235.19±15 m
Accuracy: 3.9 m
Time: 29-09-2023 13:46
Title: farm youth pp



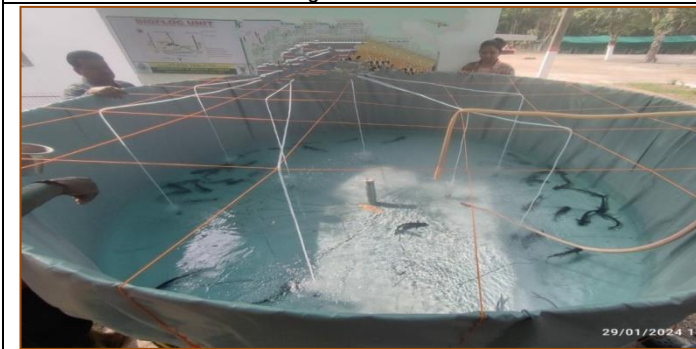
Dragon fruit unit



Trelly Unit



Nutritional garden unit



Bio-floc Unit



Poultry unit



Mushroom unit



Celebration of World Environment Day



Vanamahotsavapalan



Celebration of World Egg Day



VBSY programme Farmers Fair on Natural Farming on 10.03.23 attended by Hon'ble MP, Bargarh



Celebration of Parthenium Awareness Week



Celebration of Mahila Kissan Diwas



Celebration of WORLD SOIL DAY20



Celebration of 75 th ICAR Foundation day



Conversance activities with IRRI



Animal Health Camp



JALSHAKTI ABHIYAN-2023



Training of Pest Control Operators for restricted use of Glyphosate



Training (Ag Engg)



Training (Home Science)



Training (soil sc.)



Convergence with Horticulture Department



Training on Natural farming



Millet Recipe Contest on the eve of International year of millet



DIAGOSTIC FIELD VISITS for paddy stem borer



Radio Talk



Exposure visit of Farmers from Hort. Dept. Sonpur



Swachhata Abhijan



Visit of Respected Collector cum DM to our exhibition stall on Dist. Level Animal & fishery Mela



Students from CA.&CH, OUAT, Chipilima



VISIT OF Hon'ble. VICE CHANCELLOR, OUAT, BHUBANESWAR



VISIT OF REGISTRAR, OUAT, BHUBANESWAR



VISIT OF Dy ,Secy. Moinak Mukherjee .Min.Defence, Govt. of India and CNO. Jalshakti Abhijan
