

ANNUAL PROGRESS REPORT 2019

(January 2019 to December 2019)



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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 2019

Krishi Vigyan Kendra, Bargarh.

Chief Editor

Mr Nrusingha Charan Barik, Senior Scientist & Head. (I/c)

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Typing

Mr. Sumant Kumar Jally, Steno-cum-Computer Operator

Laying & Designing

Mr. Sanat Kumar Meher, Programme Assistant (Computer)

Printed

Krishi Vigyan Kendra, Bargarh

Contact:

Krishi Vigyan Kendra, Bargarh

At – Gambharipali,

PO – Larambha,

Dist – Bargarh

Pin – 768102

Odisha.

Phone :06682-225238

Email: kvkbaragarh.ouat@gmail.com

Web: www.kvkbaragarh.org

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(January 2019 to December 2019)

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	06682- 225238	06682-225238	kvkbaragarh.ouat@gmail.com baragarhkvk@yahoo.com

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	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 31.12.2019)

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	15600-39100 + AGP-6000 (21390)	22.07.2011	Temporary	OBC
2	Subject Matter Specialist	Mrs. Susrita Sahu	Scientist	Home Science	15600-39100 + AGP-6000 (22220)	06.06.2010	Temporary	OBC
3	Subject Matter Specialist	Mr. Sanat Kumar Meher	Scientist	Horticulture	15600-39100 + AGP-6000 (21390)	31.05.2015	Temporary	OBC
4	Subject Matter Specialist	Ms. Rukeiya Begum	Scientist	Plant Science	15600-39100 + AGP-6000 (17610)	29.05.2015	Temporary	Other
5	Subject Matter Specialist	Mr. Tarak Chandra Panda	Scientist	Agril. Engineering	15600-39100 + AGP-6000 (17610)	04.12.2015	Temporary	Other
6	Subject Matter Specialist	Mr. Alok Kumar Sahoo	Subject Matter Specialist	Agril. Extension	15600-39100 + AGP-5400 (15600)	31.01.2019	Temporary	OBC
7	Programme Assistant	Mr. Deepankar Jena	Programme Assistant	Seed Science	9300-34800 + GP4200 (11010)	06.02.2015	Temporary	Other
8	Computer Programmer	Mr. Sanat Kumar Meher	Programme Assistant	Computer	9300-34800 + GP-4200 (11940)	06.02.2016	Temporary	OBC
19	Farm Manager	Mrs. Prarthana Mohanty	Farm Manager	Horticulture	9300-34800 + GP-4200 (11470)	04.02.2019	Temporary	Other
9	Accountant / Superintendent	Vacant	-	-	-	-	-	-
11	Stenographer	Mr.Sumant Kumar Jally	Steno cum Comp. Operator	-	5200-20200 + GP-2400 (6430)	14.02.2014	Temporary	SC
12.	Driver	Mr. Anirudhha Chhanda	Driver cum Mechanic	-	5200-20200+ GP – 1900 (7400)	23.07.2008	Temporary	OBC
13.	Driver	Mr. Jagannath Sahoo	Driver cum Mechanic	-	5200-20200+ GP – 1900 (7400)	23.05.2018	Temporary	OBC
14.	Supporting staff	Mr. SafetlalDebata	Peon cum Watchman	-	4440-7440 +GP – 1700 (6290)	28.07.2008	Temporary	Other
15.	Supporting staff	Mr. OkilKhamari	Peon cum Watchman	-	4440-7440+ GP -1700 (6290)	28.07.2008	Temporary	OBC

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.	Goatary 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
16.	Vermi compost Unit					√	80.4		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
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	2011	6,30,000	2,15,627	Good
Tractor	2009	4,20,000	2823.22 (Running Hours)	Good
Motor Cycle	2010	51,000	84,817	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
Paddle Paddy Thresher	2017	6225	Good	ICAR
power pulse thresher	2018	84375	Good	ICAR (Seed Hub)

Name of Equipment	Year of Purchase	Cost (Rs.)	Present Status	Source of Fund
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
LCD Projector	2017	38500	Good	ICAR
LED TV	2018	38691	Good	ICAR
Projection Screen	2018	17900	Good	ICAR
Print Scan cum Copier	2018	14000	Good	ICAR
Solar Light	2018	20499	Good	ICAR
DSLR Digital Camera	2018	47806	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.	15.03.2019	25	<ul style="list-style-type: none"> • Technological dissemination of pigeon pea var. PRG176 with nipping practice • Popularization of vegetable production during Kharif season • Production of Tomato seedling var. ArkaRakshak for line departments • Demonstration of sun hemp as green manuring • Performance evaluation of millets through farm mechanization • Studies on performance of Kadaknath poultry in backyard • A trial for BPH management in paddy through ITK • Popularization of floating feed in fisheries. 	<ul style="list-style-type: none"> • One OFT has been planned on the performance of different pigeon pea varieties • Raising of seedlings has been started under FLD& RF programme • The seedling will be produced as per demands of line department • Demonstration on green manuring with Sunhemphas proposed. • Seed cum- Fertilizer drill and cycle Weeder will be introduced in the FLD based on finger millet cultivation. • OFT on performance of Kadaknath poultry in backyard has been planned • Afield study is to be taken on the effect of spraying of Mahua oil cake extract with Kirozin Oil for BPH management • Already done in last year & will spread in more area in this year through FLD and training programmes 	

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
2	21.10.2019	25	<ul style="list-style-type: none"> • Assessment of the performance of BPH tolerant and stress tolerant paddy varieties • Evaluation of different Onion varieties released by DOGR, Pune • Technological dissemination of water and nutrient management of paddy in collaboration with line Department • Promotion of quality seed production of Tomato • Assessment of the performance of Kadaknath breed of poultry • Popularisation of protein rich rice in irrigated areas • Promotion of Millet cultivation for nutritional security • Creation of chain of WhatsApp group for dissemination of technology • Study of the market linkage of SHGs and FPOs. • Popularisation of catch crop in rice-rice cropping system • Study the feasibility status of cover crops in the fallow lands 	<ul style="list-style-type: none"> • OFT on BPH tolerant var. Hasanta has been done and stress tolerant var. Swarna shreya will be conducted. • OFT will be carried out during the yr. 2020-21 • Training and awareness programme will be conducted with Agriculture and Watershed Dept.. • Supplied healthy seedlings under ATMA for production of quality seeds. • OFT on performance of Kadaknath poultry in backyard has been conducted • FLD on Protein Rich Rice var. CR Dhan 311 has been planned. • Fingermillet Var. Arjun has been already done in 2019-20 & will spread in more area in the next year through FLD and Millet mission programme. • Technology dissemination in frequent interval both push and pull method. • Market linkage of SHGs has been promoted during training under Mission Shakti. • Promoted Mustard cultivation under CFLD Programme. • Sensitized NGOs to take up Leguminous crop Production in the fallow land 	

* Salient recommendation of SAC in bullet form

Attached a copy of SAC proceedings along with list of participants (Annexur-1)

Agenda – 3: Achievements made by KVK-

The Senior Scientist & Head presented in PPT the overall achievements of 2018-19 KVK activities with results. The summary of the activities is as follows:

Category	Achievement (No.)	Number of beneficiaries
OFT	12	80
FLD	20	200
Training	53	1175
Extension Activities	213	88933
Total	298	90388

Agenda – 4: Action Plan-

The Senior Scientist & Head briefed that the action plan for 2019-20 will be prepared by the recommendation of the SAC meeting, Best OFT and FLD of the year 2018-19, 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 12 OFTs, 24 FLDs, 49 nos. of training for farmer and farm women, 13 nos. of training for Rural youths, 7 nos. of training for Extension functionaries and 7 nos. of vocational training for rural youths and 120 extension activities such as World Food Day, Mahila Kisan Diwas, Women in Agriculture Day, World Soil Day, Field day, Kisan Mela, Kisan Gosthi, Exhibition, Method Demonstration, Farm Advisory Services, Scientist Visit to Farmers Field, Diagnostic Visit, Ex-Trainees Sammelan, SHG Convenors meet, Soil Test Campaign etc.

Agenda – 5 Constraint of the KVK

1. Non availability of Staff Quarter
2. Reclamation of Swampy land into Pond
3. Repairing of farmers' hostel

Agenda – 6**SAC Recommendation**

Discussions were made on the activities of KVK, Bargarh and following suggestions were made.

1. Technological Dissemination of pigeon pea var. PRG 176 with nipping practice.
2. Popularisation of vegetable production during Kharif season.
3. Production of Tomato seedling var: Arka Rakshak for line departments.
4. Demonstration of sunhemp as green manuring.
5. Performance evaluation of millets through farm mechanisation.
6. Studies on performance of Kadaknath poultry in backyard.
7. A trial for BPH management in paddy through ITK.
8. Popularisation of floating feed in fisheries.

Sr. Scientist & Head
KVK Bargarh

Senior Scientist & Head
KUSHI VIGYAN KENDRA
OUAT, Bargarh- 768102

Joint Director
DEE, OUAT, Bhubaneswar

Dean
DEE, OUAT, Bhubaneswar

Annexure – I

Sl No.	Name	Designation & Address	Member / Invitee
1.	Dr. B.K. Mohapatra	Joint Director Extension, OUAT, Bhubaneswar	Chairman
2.	Dr. A K Mohanty	ADR, RRTTS, OUAT, Chiplima	Member
3.	Mr. D. Gandhi	Dy Director of Agriculture, Bargarh	Member
4.	Mr S K Seth	Asst Director of Horticulture, Bargarh	Member
5.	Mr P K Pattnaik	Addl. Fishery Officer, Bargarh	Member
6.	Mr J S Pradhan	Asst Snail Conservation Officer, Bargarh	Member
7.	Mr Anil Dahanga	DPC, MS, DSWO, Baragarh	Member
8.	Mr N N Ray	Watershed , Bargarh	Member
9.	Mr Firoz Ku Sahu	Progressive farmer, Bbatli, Bargarh	Member
10.	Mrs Diptimayee Pradhan	Progressive farm women, Attabira, Bargarh	Member
11.	Sri Uddhabu Bhoi	Progressive farmer, Bheden, Bargarh	Member
12.	Mr N C Barik	Scientist (PP), KVK Bargarh (Nominated)	Member
13.	Mr Sudam Sahu	Representative of NGO	Member
14.	Mr. Santanu Das	Representative of NGO	Member
15.	Dr. A.K. Swain	Sr. Scientist & Head, KVK, Bargarh	Member
16.	Dr R K Pattnaik	Associate Dean, C A, OUAT, Chiplima	Invitee
17.	Mr Himansu Pradhan	Progressive farmer, Attabira, Bargarh	Invitee
18.	Dr. J. Sen	Sr. Scientist & Head, KVK, Sonepur	Invitee
19.	Dr J. Udgate	Sr. Scientist & Head, KVK, Jharsuguda	Invitee
20.	Dr. S. Pattnaik	Sr. Scientist & Head, KVK, Sambalpur	Invitee
21.	Mrs. S. Sahu	Scientist (H. Science)	Invitee
22.	Miss. R. Begam	Scientist (P. Science)	Invitee
23.	Er. T.C.Panda	Scientist (Ag. Eng)	Invitee
24.	Mr. Alok Ku Sahoo	SMS (Ag. Extension)	Invitee
25.	Mr. Dipankar Jena	Programme Asst (Seed Sc.)	Invitee

Sr. Scientist & Head,
KVK Bargarh
Senior Scientist & Head
KUSHI VIGYAN KENDRA
OUAT, Bargarh- 768102

2.a. District level data on agriculture, livestock and farming situation (2019-20)

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-62.9 (R), Greengram-3.0(K), Greengram-4.9(R), Groundnut-17.5 (K), Groundnut-23.85 (R), Wheat-14.1, Maize-33.0, Blackgram-2.75, Pigeonpea-11.5, Mustard-8.75, Sesamum-2.1, Potato-103.5, Brinjal-220, Chilli-65 Mango-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 (2019-20)

Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
Bandenbahal	2017	Sohela	98	833	225
Lahanda	2017	Attabira	18	6183	1493
Patrapalli	2015	Bhatli	69	2500	280
Kusmuda	2017	Ambabhona	82	948	205
T. Gandapalli	2017	Bijepur	74	1390	349

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	Bandenbahal	Paddy, Pigeon pea, Groundnut Vegetables & Poultry	<ul style="list-style-type: none"> • Less yield due to more weed crop competition in DSR. • Less yield from local varieties of pigeon pea.. • Low yield and Non availability of improved variety in fingermillet • Poor productivity of groundnut due to disease complex • Food and Nutritional insecurity in farming community • Low productivity of country birds 	<ul style="list-style-type: none"> • Integrated weed management in rice • Integrated Crop management in Pigeon pea • Integrated crop management in fingermillet. • IPDM in groundnut. • Household foods & nutritional security • Income generating activities for rural women
2	Bargarh	Attabira	Lahanda	Paddy, Vegetables, Mushroom	<ul style="list-style-type: none"> • Poor Marketing of HYV rice • Difficulty to collect straw after harvest by combined Harvester in rice • Distress sale of Tomato in rabi season 	<ul style="list-style-type: none"> • Integrated crop management in rice • Farm Mechanization • Market Led Extension

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
					<ul style="list-style-type: none"> • Poor yield due to <i>Fusarium sp.</i> dominated wilt disease in tomato • More time in manual weeding in brinjal • Food and Nutritional insecurity in farming community • Low income from Paddy straw mushroom • Low income from traditional vegetables • Less income from Indian major carps (Catla, Rohu, Mrigal) with limited yield after 10months of culture period • . Slow growth rate of mrigal affects the average yield from composite carp culture • Fish mortality due to Epizootic Ulcerative Syndrome (EUS) disease 	<ul style="list-style-type: none"> • Poor yield due to <i>Fusarium sp.</i> dominated wilt disease in tomato • Farm Mechanization • Household foods & nutritional security • Income generation for rural women • Income generation from Floriculture • Composite fish culture • Carp fry and fingerling rearing • Fish disease management
3	Bargarh	Bhatli	Patrapalli	Paddy, Greengram, Vegetables, Groundnut, Sesamum, Fishery	<ul style="list-style-type: none"> • Low growth rate and yield of green gram during sowing in 4th week of Dec • severe yield loss due to incidence of leaf Weber & Capsule borers during maturity stage in sesamum. • Poor yield due to injudicious application of chemical fertilizer in okra • .Low yield due to bacterial wilting and yield loss upto 50% in tomato.. • Poor yield due to <i>Fusarium sp.</i> dominated wilt disease in tomato • Low yield of Onion 	<ul style="list-style-type: none"> • Integrated crop management in greengram • IPM in Sesamum • INM in okra • Varietal evaluation in tomato. • IDM in tomato • Off season vegetable cultivation

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
					<ul style="list-style-type: none"> • Low market price of cauliflower in rabi season • Fruit cracking in watermelon • More time in manual weeding in brinjal. • More weed and more water requirement in mango • Low growth rate of normal Rohu with low availability of natural plankton leading to less fish yield 	<ul style="list-style-type: none"> • Off season vegetable cultivation • INM in watermelon • • Farm Mechanization • IWM in Mango • Fish feed management
4	Bargarh	Ambabhona	Kusmuda	Paddy, Greengram Mustard, Dairy	<ul style="list-style-type: none"> • Low growth rate and yield of green gram during sowing 4th week of De • No income from fallow land after rice harvesting. • Difficulty to collect straw after harvest by combined Harvester in rice 	<ul style="list-style-type: none"> • Integrated crop management in greengram • crop production technology of mustard • Farm Mechanization in paddy
5	Bargarh	Bijepur	T. Gandapalli	Paddy, Greengram, pigeon pea Groundnut, vegetables Poultry	<ul style="list-style-type: none"> • Poor yield from local varieties in pigeon pea. • Poor mechanization in pulse crop • More time in manual weeding in brinjal. • Low productivity of country birds 	<ul style="list-style-type: none"> • Integrated crop management in pigeon pea • Farm Mechanization in pulses • Farm Mechanization in Brinjal • Income generating activities for rural women

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2019-20) for its development and action plan

Name of village	Block	Action taken for development
Bandenbahal	Sohela	Demonstration of Integrated Weed Management in Direct Seeded Rice production Assessment of short duration high yielding Pigeon pea varieties Introduction of HYV of Finger millet (Var. Arjun) Demonstration of Integrated Management of Disease Complex in Groundnut Demonstration of backyard poultry (Rainbow rooster) Demonstration of Nutritional garden for Improving Nutritional Security of farm family
Lahanda	Attabira	Demonstration on Aromatic rice production Var.NuaAcharmati Demonstration of Tractor Operated Straw Baler for collection of Paddy straw Assessment of different planting time for better market price of Tomato Assessment of "SEEDPRO" (Microbial plant growth promoter) against <i>Fusarium</i> wilt of Tomato. Demonstration on Dry land Power weeder for weeding in Brinjal. Demonstration of Nutritional garden for Improving Nutritional Security of farm family Demonstration of Paddy Straw mushroom "OSM-11" Demonstration of Tuberose "ArkaPrajwal" Assessment of different combination of carps in aquaculture System Assessment the incorporation of Amur carp in composite carp culture Demonstration on CIFAX for control of EUS disease of fish
Patrapalli	Bhatli	Assessment on performance of greengram var. IPM 02-14 with different date of sowing Demonstration of Eco-friendly pest management in Sesamum Assessment of Production of okra through INM. Demonstration of Triple Disease Resistant tomato Hybrid " ArkaRakshak" Assessment of "SEEDPRO" (Microbial plant growth promoter) against <i>Fusarium</i> wilt of Tomato. Demonstration of off season Cauliflower production Demonstration of Kharif Onion Demonstration of Micronutrient application on growth and yield of Watermelon Demonstration on Dry land Power weeder for weeding in Brinjal.

Name of village	Block	Action taken for development
		Demonstration of plastic mulching in new mango orchard Demonstration of supplementary feeding management in pisciculture
Kusmuda	Ambabhona	Assessment on performance of green gram var. IPM 02-14 with different date of sowing CFLD on mustard Demonstration of Tractor Operated Straw Baler for collection of Paddy straw
T. Gandapalli	Bijepur	Assessment the performance of different pigeon pea varieties Assessment on ridge and furrow method of planting for Pigeon pea Demonstration on Dry land Power weeder for weeding in Brinjal. Demonstration of backyard poultry (Rainbow rooster)

2.1 Priority thrust areas

S. No	Thrust area
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.	Use of gender friendly farm tools for drudgery reduction
14.	Doubling farmers income through need based livelihood option
15.	Conservation of natural resources.

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
12	12	80	2	1	8	0	56	13	66	14	80	23	23	200	12	3	20	3	178	24	210	30	240

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
60	55	1390	12	3	10	6	58	26	81	36	118	1164	1827	8923	123	18	102	12	573	132	799	162	962
			8	7	5	6	5	4	8	7	5			5	48	12	38	16	67	48	53	76	29

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		
50	40	3	1	2	1	11	5	16	7	23	89235	96229	8423	1204	6345	512	46477	9273	61245	10989	72234		

Seed Production (q)						Planting Material (in Lakh)					
Target			Achievement			Target			Achievement		
310			342.2			50000			112360		

Livestock strains and fish fingerlings produced (in lakh)*						Soil, water, plant, manures samples tested (in lakh)					
Target			Achievement			Target			Achievement		
10000			6500			100			85		

* 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	1	-	-	-	-	-	-
Books	-	-	-	-	-	-	-
Bulletins	4	1100	-	-	-	-	-
News letter	1	500					
Popular Articles	8	-	-	-	-	-	-
Book Chapter	-	-	-	-	-	-	-
Extension Pamphlets/literature				-	-	-	-
Technical reports	3	70					
Electronic Publication (CD/DVD etc)	-	-	-	-	-	-	-
TOTAL							

1 Achievements on technologies assessed and refined OFT-1

1.	Title of On farm Trial	Assessment on performance of green gram var. IPM 02-14 with different date of sowing
2.	Problem diagnosed	Low growth rate and yield of green gram during sowing 4 th week of Dec
3.	Details of technologies selected for assessment/refinement	Assessment FP: Seed @20kg/ha, seed treatment & inoculation, sowing 4 th week Dec TO ₁ :Seed @20kg/ha, seed treatment & inoculation, line sowing 2 nd week Jan TO ₂ :Seed @20kg/ha, ST& inoculation, line sowing 4 th week Jan FP: Seed @20kg/ha, seed treatment & inoculation, sowing 4 th week Dec
4.	Source of Technology	OUAT,2016
5.	Production system and thematic area	Irrigated medium land Rabi (Paddy-Greengram) , Integrated Crop Management
6.	Performance of the Technology with performance indicators	No. of pod per plant, No.of seeds per pod,yield(q/ha), B:C ratio
7.	Final recommendation for micro level situation	Sowing at 4 th week of January recorded better yield as more plant survival percentage and less attacked of disease and pest
8.	Constraints identified and feedback for research	Difference in sowing date as per availability of soil moisture and irrigation facilities.
9.	Process of farmers participation and their reaction	Farmers were more involved during time of sowing & harvesting. They are yet to be realized the yield after 2-3 years.

Thematic area: Integrated Crop Management (ICM)

Problem definition: Low growth rate and yield of green gram during sowing 4th week of Dec

Technology assessed: Assessment on performance of green gram var. IPM 02-14 with different date of sowing

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
		Germination (%)	No. of Pods/plant						
FP: Seed @20kg/ha, seed treatment & inoculation, sowing 4 th week Dec	7	72	9	23	2.5	10400	12500	2500	1:1.2
TO ₁ :Seed @20kg/ha, seed treatment & inoculation, line sowing 2 nd week Jan	7	76	12	12	3.2	12300	16000	3700	1:1.3
TO ₂ :Seed @20kg/ha, ST & inoculation, line sowing 4 th week Jan	7	84	22	8	3.8	12600	19000	6400	1:1.5

OFT-2

1.	Title of On farm Trial	Assessment of short duration high yielding Pigeon pea varieties
2.	Problem diagnosed	Low yield from local variety Unavailability of short duration variety
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Variety-PRG 176 Variety-BRG 4 Variety- Rajeev Lochan
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICRISAT, Hyderabad, 2016 UAS, Bangalore ,2014, IGKV, Raipur 2011
5.	Production system and thematic area	Rainfed upland Kharif (Pigeon pea-Fallow), Varietal evaluation
6.	Performance of the Technology with performance indicators	Plant height (cm), No of pod per plant, Test weight, Yield:q/ha ,B:C ratio
7.	Final recommendation for micro level situation	Nipping at 40-45DAS for profused branching and INM for yield enhancement.
8.	Constraints identified and feedback for research	Research on maturity duration of var. PRG 176
9.	Process of farmers participation and their reaction	Group involvement in crop management & farmers are happy because fruit maturity was completed before depletion of soil moisture.

Thematic area: Integrated crop management(ICM)

- Problem definition: Low yield from local variety and Unavailability of short duration variety
- Technology assessed: Assessment of short duration high yielding Pigeon pea varieties.

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)	No. of Pods/ plant	Test wt. (100 grain wt.)						
FP	7	227	82	15.3	35	7.4	29574	41995	12421	1:1.42
TO ₁	7	216	115	14.4	9	10.2	27564	57885	30321	1:2.1
TO ₂	7	196	94	14.8	12	9.5	28677	53912	25235	1:1.88
TO ₃	7	231	106	14.6	11	9.8	28520	55615	27095	1:1.95

OFT-3

1.	Title of On farm Trial	Assessment of “SEEDPRO”(Microbial plant growth promoter) against <i>Fusarium</i> wilt of Tomato.
2.	Problem diagnosed	Poor yield due to <i>Fusarium sp.</i> dominated wilt disease Complex.
3.	Details of technologies selected for assessment/refinement	FP: Seed treatment with only carbendazim TO ₁ :seed treatment with Carbendazim 1.5gm/kg of seed followed by <i>Trichoderma viridae</i> @5gm/kg seed after 10 days TO ₂ :seed treatment with Carbendazim 1.5gm/kg of seed followed by SEEDPRO@4gm/kg seed after 10 days
4.	Source of Technology	SOURCE:IIHR-2017
5.	Production system and thematic area	Irrigated Upland,Rabi,Paddy-veg-fallow, Integrated Disease Management
6.	Performance of the Technology with performance indicators	Disease index,% of affected plant/Sq.meter, Yield(q/ha), B:C ratio
7.	Final recommendation for micro level situation	Farmers are suggested to gofor seed treatment of tomato seeds with SEEDPRO @5gmkg before sowing
8.	Constraints identified and feedback for research	Poor availability of seed pro at local market & formulation of seed pro from local resources
9.	Process of farmers participation and their reaction	Active participation during seedtreatment&mortality observation at peak vegetative stage. They are delighted after getting more fruits per plant with maximum plant survivability

Thematic area: Integrated Disease Management

Problem definition: Poor yield due to *Fusarium sp.* dominated wilt disease Complex.

Technology assessed:Assessment of “SEEDPRO”(Microbial plant growth promoter) against *Fusarium* wilt of Tomato.

Results: 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
		Seedling mortality	No.offruits/ plant (gm)						
FP: Seed treatment with only carbendazim	7	17	28	19	135	73000	108000	35000	1.47
TO ₁ : Seed treatment with Carbendazim 1.5gm/kg of seed followed by <i>Trichoderma viridae</i> @5gm/kg seed after 10 days	7	4	36	8	157	77600	125600	48000	1.61
TO ₂ : Seed treatment with Carbendazim 1.5gm/kg of seed followed by SEEDPRO@4gm/kg seed after 10 days	7	2	49	4	198	106900	158400	51500	1.48

OFT-4

1.	Title of On farm Trial	Assessment of Brown Plant Hooper (BPH) tolerant Rice varieties
2.	Problem diagnosed	Severe yield loss due to attack of BPH in paddy
3.	Details of technologies selected for assessment/ Refinement-Assessed (Mention either Assessed or Refined)	FP: MTU-7029 (Duration:140 days, Resistant to BLB,susceptible to BPH, Yield Potential:48q/ha, Year of Release:1982 TO ₁ :HASANTA (Duration:145 days, Resistant to BPH, Yield Potential:50q/ha,Year of Release:2014 TO ₂ :PRATIKHYA(Duration:145 days, Moderately Resistant to BPH, Yield Potential:45q/ha, Year of Release:2014
4.	Source of Technology	OUAT, DRR(2014)
5.	Production system and thematic area	Irrigated medium land, Kharif, Paddy-Paddy,
6.	Performance of the Technology with performance indicator	BPH Population/hill after 60,75 & 90 DAT , 1000 grain wt(gm) ,Yield(q/ha), B:C ratio
7.	Final recommendation for micro level situation	Hasanta can be taken in BPH endemic area where cyclone / heavy wind occurs very rarely
8.	Constraints identified and feedback for research	Lodging of the variety due to heavy wind & increasing the doses of potash to prevent lodging
9.	Process of farmers participation and their reaction	Observing BPH population at P.I stage & they are happy as Hasanta var. is not affected by BPH

Thematic area:

Problem definition: Severe yield loss due to attack of BPH in paddy

Technology assessed:Assessment of BPH tolerant Rice varieties

Table: 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
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP: MTU-7029 (Duration:140 days, Resistant to BLB, susceptible to BPH, Yield Potential:48q/ha, Year of Release:1982	7	34	24	23	21	42.8	56500	72760	16260	1.28
Paddy var. Pratikshya(2014)with recommended package of practices (142days duration, MR to WBPH,105Cm height, Yield potential - 45Q/Ha	7	30	27	24.2	4	54.4	64700	92650	27950	1.43
Paddy var. HASANTA(2014)with recommended package of practices (145days duration, Resistant to BPH,110Cm height, Yield potential -75Q/Ha	7	28	21	25.7	0	51.6	60800	87720	26950	1.44

OFT-5

1.	Title of On farm Trial	Assessment of babycorn in Rainfed upland during Kharif
2.	Problem diagnosed	Low income from oilseeds and pulses
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment FP-Farmer are growing sweet corn TO1-Growing Hybrid Maize TO2-Hybrid Baby corn
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source : AICRP Maize,OUAT,Transferable Technology 2016-17
5.	Production system and thematic area	Varietal Evaluation
6.	Performance of the Technology with performance indicators	Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio,
7.	Final recommendation for micro level situation	Even though the technology is viable but farmers are not interested.
8.	Constraints identified and feedback for research	Lack of awareness regarding Baby Corn and so marketing is a problem.
9.	Process of farmers participation and their reaction	Field Visit

Thematic area:

Problem definition:

Technology assessed:

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
		Avg. number of Fruit per Plant,	Avg. wt. of the fruit (gm.)	Average plant height (cm)					
Farmer are growing sweet corn	7	1.1	280	192	228(Green Cob)	72000	159600	87600	2.21
Growing Hybrid Maize	7	1.2	220	184	195(Green Cob)	66500	136500	70000	2.05
Hybrid Baby corn	7	1.8	8.2	176	16(cob without husk)	34100	64920	30820	1.90

OFT-6

1.	Title of On farm Trial	Assessment of INM of Broccoli in Rabi season.
2.	Problem diagnosed	Low income from cabbage and cauliflower
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assesment FP -Imbalanced Fertilizer Application TO1-Vermicomposteb2.5Tn + Half Dose of RDF(150:50:100) TO2-Application ofg Boric acid + MnSo4 @ 100PPM each three spray at 10 day interval
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Vermicomposteb2.5Tn + Half Dose of RDF(150:50:100)
5.	Production system and thematic area	Application ofg Boric acid + MnSo4 @ 100PPM each three spray at 10 day interval from 30DAT + RDF(150:50:100)
6.	Performance of the Technology with performance indicators	Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio,
7.	Final recommendation for micro level situation	In Broccoli, application of boric acid + MnSO ₄ @ 100 ppm each, three sprays at 10 days interval from 30 days after transplanting is recommended for maximum yield
8.	Constraints identified and feedback for research	Some time availability of Mnso4 is a problem at Market.
9.	Process of farmers participation and their reaction	Field Visit

Thematic area:

Problem definition:

Technology assessed:

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
		Avg. number of Fruit per Plant,	Avg. wt. of the fruit (gm.)	Average plant height (cm)					
FP Imbalanced Fertilizer Application	7	13.12	304.31	229.20	103	73500	154500	81000	2.10
Vermicomposteb2.5Tn + Half Dose of RDF(150:50:100)	7	12.72	292.20	213.60	112	88400	168000	79600	1.90
Application ofg Boric acid + MnSo4 @ 100PPM each three spray at 10 day interval from 30DAT + RDF(150:50:100)	7	13.10	313.12	252.30	125	81500	187500	106000	2.30

OFT-7

1.	Title of On farm Trial	Assessment on Performance of Tractor drawn Happy Seeder for Sowing Green Gram
2.	Problem diagnosed	Low yield due to delayed sowing and less net return due to high cost of cultivation, more labour and time consumption. To avoid burning of paddy straw by farmers left by combine harvester
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Broadcasting method of sowing TO ₁ : Line Sowing behind the plough TO ₂ : Sowing by Happy Seeder
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR
5.	Production system and thematic area	Rabi, Farm mechanization
6.	Performance of the Technology with performance indicators	Good, Field efficiency, Cost of operation, Cost reduction
7.	Final recommendation for micro level situation	Less weight machine needed
8.	Constraints identified and feedback for research	Weight of the machine to be reduced along with design of rotary
9.	Process of farmers participation and their reaction	Actively participated and some modification needed

Thematic area: Farm machinery

Problem definition: Low yield due to delayed sowing and less net return due to high cost of cultivation, more labour and time consumption. To avoid burning of paddy straw by farmers left by combine harvester

Technology assessed: Assessment on Performance of Tractor drawn Happy Seeder for Sowing Green Gram

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
		Seed rate (kg/ha):	Field capacity (ha/hr):	Labour (m.d. / ha.):						
FP: Broadcasting method of sowing	7	25	0.2	3	-	3.0	12500	15000	2500	1.20
TO ₁ : Line Sowing behind the plough	7	20	0.18	6	-	3.6	14280	18000	3720	1.26
TO ₂ : Sowing by Happy Seeder	7	18	0.4	1	-	4.1	15550	20500	4950	1.30

OFT-8

1.	Title of On farm Trial	Assessment on ridge and furrow method of planting for pigeon pea
2.	Problem diagnosed	Less germination of seed due to water stagnation and drainage problem
3.	Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)	FP: Ridge & furrow manually done TO ₁ : Use of Bullock draw plough TO ₂ : Tractor drawn ridger
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CIAE, Bhopal
5.	Production system and thematic area	Irrigated medium land, Kharif 2019, Farm Mechanisation
6.	Performance of the Technology with performance indicators	Field capacity (ha/hr), Cost of operation/ha, Yield(Q/hr), BC ratio
7.	Final recommendation for micro level situation	More OFT to be done
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Appreciated

Thematic area: Farm machinery

Problem definition: Less germination of seed due to water stagnation and drainage problem

Technology assessed: Use of Tractor drawn Ridger

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
		Field capacity (ha/hr):	Labour (m.d. / ha.):						
FP: Ridge & furrow manually done	7	0.2	13	-	7.2	36400	50400	14000	1.38
TO ₁ : Use of Bullock draw plough	7	0.18	6	-	9.1	34100	63700	29600	1.86
TO ₂ : Tractor drawn ridger	7	0.4	1	-	9.8	34800	68600	33800	1.97

OFT-9

1.	Title of On farm Trial	Assessment of different combination of carps in aquaculture System
2.	Problem diagnosed	Less income from Indian major carps (Catla, Rohu, Mrigal) with limited yield after 10months of culture period.
3.	Details of technologies selected for assessment/refinement	FP: Indian Major Carps TO ₁ :FP+Exotic carp TO ₂ :TO ₁ +Minor carp+ <i>P.gonionotous</i>
4.	Source of Technology	CIFA, Bhubaneswar, 2013
5.	Production system and thematic area	Pond based and Production & Management
6.	Performance of the Technology with performance indicators	Avg. wt. of carps (gm),Time required for table size (month), Yield (q/ha),B:C ratio, Farmers feed back
7.	Final recommendation for micro level situation	The TO ₂ gives more yield compared to TO ₁ . TO ₁ sustainability is better compared to TO ₂ as the availability of minor carp seeds are difficult at farmers level. (Best combination of Indian major carps, exotic carps and minor carps)
8.	Constraints identified and feedback for research	Seed production technology for different minor carps to be standardized
9.	Process of farmers participation and their reaction	IMC fish seed, pond and feeding management

Thematic area: Fishery

Problem definition: Less income from Indian major carps (Catla, Rohu, Mrigal) with limited yield after 10months of culture period

Technology assessed: Assessment of different combination of carps in aquaculture System

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
		Avg. wt of carps (gm)	Month for table size					
FP:Stocking with Indian major carps @6000 nos. of advanced fingerling per ha. with 10months of culture practice.	5	850	10	23.25	131320	279000	147680	2.12
TO ₁ : FP.+ Exotic carp (Silver carp, Grass carp and Common carp) @1000 nos. of advanced fingerling per ha.	5	1200	6	26.58	155830	352250	196420	2.26
TO ₂ :TO ₁ + Minor carp and Barb (<i>P. gonionotus</i>) @3000 nos. of fingerling per ha	5	1300	6	26.81	163350	382500	219150	2.34

OFT-10

1.	Title of On farm Trial	Assessment of the incorporation of Amur carp in composite carp culture
2.	Problem diagnosed	Slow growth rate of Mrigal affects the average yield from composite carp culture
3.	Details of technologies selected for assessment/refinement	Assessment FP: Catla :Rohu: Mrigal(30:40:30) TO ₁ :Catla : Rohu: Mrigal: Amur carp (30:40:20:10) TO ₂ : Catla : Rohu: Mrigal: Amur carp (30:40:10:20)
4.	Source of Technology	UAS, Bangalore, 2015
5.	Production system and thematic area	Pond based and Varietal Evaluation
6.	Performance of the Technology with performance indicators	Growth rate (%), Yield (q/ha), B:C ratio
7.	Final recommendation for micro level situation	Amur carp should be stocked with advanced fingerling
8.	Constraints identified and feedback for research	Availability of Amur carp fingerlings should be sufficiently available to the farmers
9.	Process of farmers participation and their reaction	Carp stocking, pond management and feeding management

Thematic area: Production and Management

Problem definition: Slow growth rate of mrigal affects the average yield from composite carp culture

Technology assessed: Assessment the incorporation of Amur carp in composite carp culture

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
		Avg. wt of carps (gm)	Growth rate per month (6month) (%)					
FP :Mrigal as bottom feeder with stocking rate of more than 30%	5	480	80	24.15	131620	275500	143880	2.09
TO ₁ : Stocking ratio catla: rohu : mrigal :Amur carp :: 30:40:20:10	5	680	113.3	25.68	157850	356850	199000	2.26
TO ₂ : Stocking ratio catla: rohu : mrigal :Amur carp :: 30:40:10:20	5	750	125	26.78	164430	385300	220870	2.34

OFT-11

1.	Title of On farm Trial	Assessment the efficiency of solar drier for value added products
2.	Problem diagnosed	Potato chips through open sun drying is a more time consuming and poor hygienic process
3.	Details of technologies selected for assessment/refinement	Assessment FP:Drying of Potato slices through open sun drying followed by blanching treatment with salt water TO ₁ :Drying of Potato slices through oven drying followed by blanching treatment with 2 gm. Potassium metabisulphite solution TO ₂ :Drying of Potato slices through Solar drier followed by blanching treatment with 2 gm. Potassium metabisulphite solution
4.	Source of Technology	OUAT, 2012
5.	Production system and thematic area	Homestead
6.	Performance of the Technology with performance indicators	Drying period (days), sensory evaluation (9- Point hedonic scale),BC Ratio, farmers feedback
7.	Final recommendation for micro level situation	Potato chips can be prepared in Solar dryer in more hygienic way with less time
8.	Constraints identified and feedback for research	Poor availability of the machine & Fixing of more reflectors to quicken the process
9.	Process of farmers participation and their reaction	Women are actively involved in making of potato chips & showed their interest towards the solar drier as it can also used for drying of papad, banana chips.

Thematic area: value addition

Problem definition: Potato chips through open sun drying is a more time consuming and poor hygienic process

Technology assessed: Assessment the efficiency of solar drier for value added products

Table:

Technology option	No. of trials	Yield component		Drying period (h)our	Cost of intervention (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Overall acceptability (0-9 point hedonic scale)	Moisture (%)					
FP:Drying of Potato slices through open sun drying followed by blanching treatment with salt water	7	6	9.4	14	500	900	400	1.8
TO ₁ :Drying of Potato slices through oven drying followed by blanching treatment with 2 gm. Potassium metabisulphite solution	7	8	8.9	7	500	990	490	1.98
TO ₂ :Drying of Potato slices through Solar drier followed by blanching treatment with 2 gm. Potassium metabisulphite solution	7	8	9.1	10	530	990	460	1.86

OFT-12

1.	Title of On farm Trial	Assessment of different substrates in vermicompost production
2.	Problem diagnosed	Non-commercialisation of Organic wastage
3.	Details of technologies selected for assessment/refinement	FP:Vermicomposting from Cow dung + vegetable waste (2:3) TO ₁ : Vermicomposting from Cow dung + Crop residue (2:3) TO ₂ : Vermicomposting from Cow dung + spent mushroom substrate (2:3)
4.	Source of Technology	KVK, OUAT, 2012
5.	Production system and thematic area	Homestead, Enterprise development
6.	Performance of the Technology with performance indicators	N-P-K status of the vermicompost (%), Conversion period (days), Conversion ratio,B:C ratio
7.	Final recommendation for micro level situation	Spent mushroom substrate can be better utilized with cow dung in 3:2 for vermicompost production.
8.	Constraints identified and feedback for research	Foul smell from spent mushroom substrate & Formulation of a chemical for quick decomposition other substrates without hampering the microbial activity
9.	Process of farmers participation and their reaction	Active participation in moisture maintenance & harvesting at regular interval. Farm women are overwhelmed as they are now able to earn extra income from mushroom wastages.

Thematic area: Vermi Compost production

Problem definition: Non-commercialisation of Organic wastage

Technology assessed: Assessment of different substrates in vermicompost production

Table:

Technology option	No. of trials	Yield component		Cost of cultivation (Rs./ annum)	Gross return (Rs.)	Net return (Rs.)	BC ratio
		N-P-K with Ca & B(%)	Conversion % of substrate after 3 months				
FP :Vermicomposting from Cow dung + vegetable waste (2:3)	7	0.96-0.92-0.62-1.28-0.04	28	3170	5680	2510	1.79
TO ₁ : Vermicomposting from Cow dung + Crop residue (2:3)	7	0.7-0.57-0.16-0.92-0.02	54	3370	7240	3870	2.14
TO ₂ : Vermicomposting from Cow dung + spent mushroom substrate (2:3)	7	1.66-0.87-0.59-1.6-0,02	59	3250	7540	4290	2.32

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for short fall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1	Rice	IWM	Demonstration of Integrated Weed Management in Direct Seeded Rice production (Application of pyrazosulfuron @ 20 g/ha as pre-emergence stage i.e 0-3 DAS followed by Bispyribac sodium @ 25 g/ha as post-emergence i.e 25 DAS)	4	4	-	-	1	-	9	-	10	-	10	
2	Rice	ICM	Aromatic Rice Production Var. Nua Acharmati Growing of Aromatic paddy Var.NuaAcharmati,Duration-130-134 days, Average Yield -4t/ha, it is resistant to lodging and shattering having easy threshability	2	2					10	-	10	-	10	
3	Finger millet	ICM	Introduction of HYV of Finger millet (Var.Arjun)	10	10	1	1	3	-	8	7	12	8	20	
4	Rice	IDM	Demonstration on Integrated Disease Management of blast in rice , Seed treatment with either Tricyclazole @ 3 gm/kg of seed or Carboxin 37.5%+ Thiram 37.5% @2.5 gm/kg and foliar spraying of either tricyclazole @ 300gm/ha or spraying of Isoprothilane 40% EC @ 750 ml/ha twice at 15 days interval starting from the initiation of disease	2.0	2.0	1				4		5		5	
5	Maize	IPM	Demonstration of IPM against stem borer in maize Flubendiamide 480 SC @0.1 ml followed by Flubendiamide 480 SC @0.2 ml and Deltamethrin 2.8 EC @ 0.8 ml/l of water proved highly effective and economical in reducing the shoot borer damage.	1.0	1.01	2				7	1	9	1	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	P2O5	K2O					
Rice	Kharif	Rainfed Medium land	Red laterite	219	41	245	fallow	19.06.2019	21.10.2019	1514.65	82
Rice	Kharif	Irrigated medium land	Red laterite	235	66	190	fallow	20.06.2019	25.10.2019	1514.65	82
Rice	Kharif	Irrigated medium land	Clayloam	242	54	265	Rice	23.06.2019	30.11.2019	1514.65	82
Maize	Kharif	Rainfed upland	RedLaterite	165	63	195	Fallow	12.06.2019	16.11.2019	1514.65	82

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

Frontline demonstrations on oilseed crops

Crop	The matic 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)			
					De mo	Chec k		Gros s Cost	Gross Return	Net Return	** BCR	Gros s Cost	Gross Return	Net Return	** BCR
Ground nut	IDM	Demonstration of Integrated Management of Disease Complex in Groundnut (Seed treatment with Tebuconazole 25WG @ 1.5gm/kg seed, Furrow application of <i>Trichoderma viridae</i> @ 4kg inoculated with 50kg of FYM, broadcasting of <i>Trichoderma viridae</i> at @ 4kg inoculated with 250 kg FYM AT 40DAS, 2 sprays of Tebuconazole 25.9EC@ @1ml/lit at 60 & 75 DAS)	10	1	15.9	11.8	34.7	40000	71550	31550	1.8	35000	53100	18100	1.5
Sesamum	IPM	Demonstration of Eco-friendly pest management in Sesamum (Seed treatment with Imidachloprid 70WG @ 5 gm/kg, intercropping with sesamum + black gram (5:3) with two foliar applications of Triazophos 40 EC @ 2 ml/lit)	10	1	7.04	4.17	68	11000	24640	13640	2.24	9000	14595	5595	1.6

* 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

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
Geengram	Integrated Weed Management	Demonstration on IWM in greengram (Application of pre-emergence weedicide (Pendimethalin 30EC @ 2000 ml/ha) within 3rd day and post-emergence (Quizalo-fop-Ethyl 5% Ec @ 1000 ml/ha at 20DAS)	10	1	4.2	3.5	20	12000	21000	8000	1:1.61	13200	17500	4300	1:1.3
Green gram	Post-harvest management	Demonstration on grain pro super bag for storage of greengram seeds (Use of grain pro super bag for storage of pulse seeds)	10	1	Insect infestation% 2.2% Germination % 82%	17.5% 74%	10.8	5200	6800	1600	1:1.3	5040	5750	710	1:1.14
Pigeon pea	IPM	Spraying of Azadiractin 0.15% @ 1.5 l/ha at 50% flowering followed by flubendiamide 48SC @ 200ml/ha (2ml/5 litre water) and Bt @ 1kg/ha (2g/litre) at 15 days intervals	10	1.0	4.8	10.7									

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

** BCR= GROSS RETURN/GROSS COST

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	**BCR	Gross Cost	Gross Return	Net Return	**BCR
Rice	IWM	Demonstration of Integrated Weed Management in Direct Seeded Rice production (Application of pyrazosulfuron @ 20 g/ha as pre-emergence stage i.e 0-3 DAS followed by Bispyribac sodium @ 25 g/ha as post-emergence i.e 25 DAS)	10	4	36	31	16	No. of tillers/hill 17	15	3630 0	6660 0	3030 0	1:1. 8	3820 0	5735 0	19150	1:1 .5
Rice	ICM	Aromatic Rice Production Var. Nua Acharmati Growing of Aromatic paddy Var.NuaAcharmati,Duration-130-134 days, Average Yield -4t/ha, it is resistant to lodging and shattering having easy threshability	10	2.5	42	39	7.6	Grains/ panicle 126	118	1063 /q of milled rice	4300 /q of milled rice	4012 /q of milled rice	1:4. 0	1251 /q of milled rice	3500 /q of milled rice	2249/ q of proces seed	1:2 .7
Finger millet	ICM	Introduction of HYV of Fingermillet (Var.Arjun)	20	10	18	12	50	No. of Fingers /head 7	5	2250 0	5580 0	3330 0	1:2. 48	2430 0	4030 0	16000	1:1 .65
Rice	IDM	Seed treatment with either Tricyclazole @ 3 gm/kg of seed or Carboxin 37.5%+ Thiram 37.5% @2.5 gm/kg and foliar spraying of either tricyclazole @ 300gm/ha or spraying of Isoprothilane 40% EC @ 750 ml/ha twice at 15 days interval starting from the initiation of disease	5	2.0	39.6	43. 7	10.3	4	14	5480 0	7429 0	1949 0	1.35	5430 0	6732 0	13020	1.2 3

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
Maize	IPM	Flubendiamide 480 SC @0.1 ml followed by Flubendiamide 480 SC @0.2 ml and Deltamethrin 2.8 EC @ 0.8 ml/l of water proved highly effective and economical in reducing the shoot borer damage	10	1.0	19.5	23.2	18.9	3	32	26700	34800	8100	1.3	23600	28350	4750	1.20
Tuberose	Varietal Evaluation	Popularization of Tuberose “ArkaPrajwal – Tube rose “ArkaPrajwal”	10	0.1	76	32	237	1.05	-	100000	304000	153000	3.04	36500	64000	27500	1.75
Cauliflower	Varietal Evaluation	Demonstration of off season Cauliflower production	10	0.2	123	112	8.9	0.23	0.22	90100	209100	119000	2.32	85200	190400	105200	2.23
Onion	Varietal Evaluation	Demonstration of Kharif Onion	5	0.4	142	130	9.2			132700	284000	151300	2.14	125000	260000	135000	2.08
Mango	Production management	Demonstration of plastic mulching in new mango orchard- Mulching with drip irrigation	10	1	10.2	9.6	9	-	-	15300	5464	9836	2.8	14400	6000	8400	2.4

Livestock

Category	Thematic Area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters (Live body wt. -kg./annum)		% change in major parameter	Other parameter (No. of eggs/annum)		*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	Backyard	Rearing management of Rainbow Rooster with timely vaccination (Rearing management of rainbow Rooster with timely vaccination)	10	100	3.300	1.750	180	144	56	5750	12720	6970	2.21	3950	7300	3350	1.84
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl. specific)																	
Total																	

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

** BCR= GROSS RETURN/GROSS COST

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters (Productivity in q/ha.)		% change in major parameter	Other parameter (Avg. body wt in 8months) gm.		*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	
Common carps																		
Mussels																		
Ornamental fishes																		
Indian Major Carps	Feeding Management	Supplementary feeding management (Floating feed) in pisciculture (Commercially formulated fish feed (with protein, fat, vitamins and mineral mix) of floating type (5-2% of avg. B. wt.)	10	10	38.5	21.2	81.6	890	540	269500	462000	192500	1.71	116600	254400	137800	2.18	
Indian Major Carps	Varietal Evaluation	Improved Rohu breed "Jayanti" (Replacement of "Jayanti" rohu fingerlings with normal rohu in the pond based culture system)	10	10	26.8	22.2	20.7	780	650	140400	321600	181200	2.29	111000	244200	133200	2.2	

* 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

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters (yield-Kg. /bed)		% change in major parameter	Other parameter (No. of days for pinhead formation)		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Paddy straw mushroom	Demonstration of Paddy Straw mushroom "OSM-11" (Cultivation of paddy straw mushroom strain OSM-11, Black in colour, Biological efficiency of substrate-15%.)	10	100	1.250	1.100	13.6	9	8	7700	12500	4800	1.62	7700	11000	3300	1.42
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																

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

** BCR= GROSS RETURN/GROSS COST

Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women	Demonstration of Nutritional garden for Improving Nutritional Security of farm family	10	Per day per capita availability (gm.)/Kharif-263	175	Continuing
Pregnant women					
Adolescent Girl					
Other women					
Children					
Neonatal					
Infants					

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Greengram	Less deterioration of seed quality and 10% increase in germination % as stored in grain pro super bag.
2	Rice	Integrated weed management in DSR increases the yield of rice to 15-20%
3	Rice	Processed Aromatic Rice increases the income to Rs 1763 per q of processed Rice
4	Fingermillet	New variety of fingermillet (Var.Arjun) increases the yield to 50% with less incidence of disease and pest
5	Rice	Research on triple resistant (Stem borer, Leaf folder& case worm) paddy varieties
6	Groundnut	Development of suitable variety of groundnut resistant to foliar disease
7	Sesamum	Selection of suitable trap crop for capsule borer
8	Tomato	Development of tomato var. that can be cultivated thorough out the year
9	Onion	Bhima Super is suitable for 39ember season and shpuld be promoted for 39ember cultivation.
10	Tuberose	Tuberose"ArkaPrajwal" should be promoted for commercial floriculture.
11	watermelon	More research should be done on fruit cracking of watermelon.
12	Plastic mulching	Research should be done on Bio-Degradable and eco-friendly plastic mulch.
13	Nano Solar Pump	Low cost solar panel should be promoted for better adaptable among farmer.
14	Power Weeder	Provision for More Govt.subsidy for more horizontal spread of the technology.
15	Paddy Straw mushroom	Yield is increased to 13% by cultivating OSM-11 strain of paddy straw mushroom than V. Volvacea
16	Poultry	Rainbow Rooster is suitable for dual purpose in backyard .
17	Fishery	Supplementary feeding enhances the body wt.
18	Fishery	Advanced Jayanti Fingerling shows better growth

4. Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of Activities Organized	Number of Participants	Remarks
1.	Field days	08.10.18,02.02.19 .15.10.19	4	185	Wilt resistant tomato Hybrid var. ArkaRakshak Cultivation of paddy straw mushroom OSM-11 Disease management in Groundnut
2.	Farmers Training	01.01.19,10.01.19, 29.08.19.& 30.08.19,8.07.19,19.08.19, 19.10.19, 29.11.19,02.12.19& 03.12.19, 8/8/19, 17/9/19, 21/10/19, 17/12/19,	13	315	Training includes F& FW, Rural youth
3.	Media coverage	18.02.19,19.02.2019,	5	Mass	Crop seminar ,Tomato Production, Disease management in groundnut Fingerlings production, Income generating activities for farm women,
4.	Training for extension functionaries	28.11.19	1	15	Varietal characteristics of different greengram cultivars

Performance of the demonstration under CFLD on Oilseed & pulse Crops during summer 2019 & Kharif 2019:

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	Ground nut	Smurti	16.6	2385	1936	2500	Var.Devi Line sowing behind plough30cmx10cm Seed treatment with Vitavax power @ 2.5gm/kg of seeds, STBF, Application of Phospho-Gypsum@ 2.5Q/Ha. Spraying of Chloropyrifos 50% + Cypermethrin 5% EC @ 0.5ml / lit of water. Spraying of Carbendazim 12%+ Mancozeb 63% @ 3gm /Lit of water	69	20	22.56	18.81	20.9	87.63	100	83.6

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
2	Greengram Var.IPM-02-14	Kalichikni	2.5	2.0	1.68	10	Line sowing behind plough 30 cm x10cm Seed treatment with Rhizobium culture @ 20gm/kg seed, STBF, Application of Phospho-Gypsum @ 2.5Q/Ha. Spraying of Indoxacarb15.8SL @ 1ml/5litrs of water	62	20	8.4	6	7.32	100	100	66
3	Pigeon pea Var.PRG-176	Kandula	6.2	3.2	4.3	12	HYV SEED-PRG-176, Line sowing behind plough60 cmx 30cm, Seed treatment with Rhizobium culture @ 20gm/kg seed, STBF Spraying of Hormone Planofix @ 1ml/4.5lit,spraying of pesticideProphenophos50EC@2ml/lit.	81	20	12	10.1	10.57	100	100	88

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.Devi, Line sowing behind plough 30cmx10cm, Seed treatment with Vitavax power @ 2.5gm/kg of seeds, STBF, Application of Phospho-Gypsum@ 2.5Q/Ha. Spraying of Chloropyrifos 50% + Cypermethrin 5% EC @ 0.5ml / lit of water. Spraying of Carbendazim 12%+ Mancozeb 63% @ 3gm /Lit of water	39060	66400	27340	1.69	41390	83600	42210	2.01
2	Greengram-Var.IPM-02-14 Line sowing behind plough 30cmx10cm, Seed treatment with Rhizobium culture @ 20gm/kg seed,STBF, Application of Phospho-Gypsum@2.5Q/Ha.Sprayingof Indoxacarb15.8SL@1ml/5litrs of water	13690	25660	11970	1.84	18780	37800	18720	2.01
3	Pigeon pea- HYV SEED-PRG-176,Line sowing behind plough60cmx30cmSeed treatment with Rhizobium culture @20gm/kg seed, STBF Spraying of Hormone Planofix @1ml/4.5lit, spraying of pesticide Prophenophos 50EC @2ml/lit.	17300	24800	7500	1.43	21500	42400	20900	1.97

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/household)
1	Groundnut - Var.Devi, Line sowing behind plough 30cmx10cm, Seed treatment with Vitavax power @ 2.5gm/kg of seeds, STBF, Application of Phospho-Gypsum @ 2.5Q/Ha. Spraying of Chloropyrifos 50% + Cypermethrin 5% EC @ 0.5ml / lit of water. Spraying of Carbendazim 12%+ Mancozeb 63% @ 3gm /Lit of water	41806	540	30	90	55	Labour Payment, loan payment, purchase of grocery, clothes for family members, Payment of electricity bill.	41
2	Greengram -Var.IPM-02-14 Line sowing behind plough30cmx10cm, Seed treatment with Rhizobium culture @ 20gm/kg seed, STBF, Application of Phospho-Gypsum @ 2.5Q/Ha. Sprayingof Indoxacarb15.8SL@1ml/5litrs of water	14650	189	50	1600	1330	Labour payment,payment of fertilizer and pesticides dues,purchase of grocery, and school uniform for children	34
3	Pigeon pea - HYV SEED-PRG-176, Line sowing behind plough, 60 cm x 30 cm Seed treatment with Rhizobium culture @ 20gm/kg seed, STBF Spraying of Hormone Planofix @ 1ml/4.5lit, spraying of pesticide Prophenophos 50 EC @ 2ml/lit.	21150	235	40	1700	415	Labour payment,payment of fertilizer and pesticides dues and purchase of insurance policy	41

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	Groundnut - Var.Devi, Line sowing behind plough 30cmx10cm, Seed treatment with Vitavax power @ 2.5gm/kg of seeds, STBF, Application of Phospho-Gypsum @ 2.5Q/Ha. Spraying of Chloropyrifos 50% + Cypermethrin 5% EC @ 0.5ml / lit of water. Spraying of Carbendazim 12%+ Mancozeb 63% @ 3gm /Lit of water	ideal	KVK, State Agri. Dept, ICAR, NGO, Input dealer	Good	No	yes	Purchase of groundnut at MSP by govt. agencies.
2	Greengram -Var.IPM-02-14 Line sowing behind plough30cmx10cm, Seed treatment with Rhizobium culture@20gm/kg seed, STBF, Application of Phospho-Gypsum@2.5Q/Ha.Sprayingof Indoxacarb15.8SL@1ml/5litrs of water	ideal	KVK, State Agri.Dept, ICAR, NGO, Input dealer	Good	No	yes	Need for Procurment of produce from farmers at MSP through RMCs
3	Pigeon pea - HYV SEED-PRG-176, Line sowing behind plough, 60cmx30cmSeed treatment with Rhizobium culture@20gm/kg seed, STBFSpraying of Hormone Planofix@1ml/4.5lit, spraying of esticideProphenophos50EC@2ml/lit.	ideal	KVK, State Agri.Dept, ICAR, NGO,Input dealer	Manage able	No	yes	Use of machineries for grading of seeds, Need for Procurment of produce from farmers at MSP through RMCs

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Groundnut - Var.Devi, Line sowing behind plough 30cmx10cm, Seed treatment with Vitavax power @ 2.5gm/kg of seeds, STBF, Application of Phospho-Gypsum @ 2.5Q/Ha. Spraying of Chloropyrifos 50% + Cypermethrin 5% EC @ 0.5ml / lit of water. Spraying of Carbendazim 12%+ Mancozeb 63% @ 3gm /Lit of water	Pods/plant Plant height	Av 32pods/plant(Demo) 21pods/plant(check) Av 44cm(Demo) 39cm (check)	<ul style="list-style-type: none"> Foliar diseases were less in fungicide treated plot. Leaves remain green till harvest in Phospho-Gypsum treated plots Bold seeds were obtained from insecticides treated plots.
Greengram -Var.IPM-02-14 Line sowing behind plough30cmx10cm, Seed treatment with Rhizobium culture@20gm/kg seed, STBF, Application of Phospho-Gypsum@2.5Q/Ha.Sprayingof Indoxacarb15.8SL@1ml/5litrs of water	Pods/plant Plant height Test weight(gm)	44 (Demo)29(check) 67cm (Demo) cm (check) 35.38gm (Demo) 9.8 gm(Check)	Pod filling was better in rhizobium treated plants,Colour of seeds was more shining in phospho- Gypsum plots
Pigeon pea - HYV SEED-PRG-176, Line sowing behind plough, 60cmx30cmSeed treatment with Rhizobium culture@20gm/kg seed, STBF Spraying of Hormone Planofix@1ml/4.5lit, spraying of pesticide Prophenophos 50EC @ 2ml/lit.	Pods/plant Plant height Test weight(gm)	135 (Demo), 99 (Check) 237 cm (Demo) , 260 cm. (Check) 74.5gm(Demo) 61 gm(Check)	Seed size in demo plots are bigger than check varieties.

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
	GRONDNUT (Summer)		
1	Field visit	28.03.2019 & 30.03.2019, Turunga, Singhenpali, Papanga	30
2	Group meeting	2.03.2019,13.03.2019, 23.03.2019, 28.03.2019, 30.03.2019 K.Tikra, Turunga, Jhilminda, Papanga, Singhenpalli	63
3	Awareness Camp	10.1.2019, KVK Campus Bargarh	35
	GREENGRAM		
1	Awarness camp on Improved cultivation Technology of Kharif Greengram	Dt.25.06.2019, Dt.16.08.2019, Vill/Block: Shohella Vill: Chitakhai, Block: Shohella	65 35
2	Group meeting	04.09.2019, 25.10.2019, 2.11.2019,Vill: Chitakhai,Block: ShohellaVill.Jharmunda,GP: Chhuriapalli, Block: Shohella, Vill/Block: Shohella	55
3	Field visit	13.08.2019, 25.10.2019, 2.11.2019, Vill: Chitakhai, Block: ShohellaVill. Jharmunda, GP: Chhuriapalli, Block: Shohella, Vill/Block: Shohella	75
	PIGEONPEA		
1	Awarness camp on Integrated crop management of Kharif pigeon pea	Dt.03.07.2019, 02.11.2019, Vill/GP.NaogaonBlock; Shohella Vill.Patrapalli, GPNuagarh, Block: Bhatli	150
2	Field visit	Dt15.07.2019, 06.11.2019 & 26.11.2019 Vill/GP.NaogaonBlock; Shohella Vill.Patrapalli, GPNuagarh, Block: Bhatli, Vill/GP.NaogaonBlock; Shohella	95
3	Group meeting	Dt15.07.2019, 06.11.2019 & 26.11.2019, 02.12.2019 Vill/GP.NaogaonBlock; Shohella Vill.Patrapalli, GPNuagarh, Block: Bhatli Vill/GP.Naogaon Block; Shohella Vill.Patrapalli, GP-Nuagarh, Block: Bhatli	150

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



Land preparation for Greengram crop at village: Chitakhai, Block: Shohella









Distribution of Pesticides at Vill.: Chitakhai, Block: Shohella



Line sowing of Greengram crop and distribution of seed at village: Chitakhai, Block: Shohella



Green gram pick vegetative stage at Chita khae village, Sohel Block

		
<p>Paired row pigeon pea sowing at vill. Vill/GP. Naogaon, Block; Shohella</p>	<p>Distribution of pigeon pea seeds at village: Naogaon Shohella Block.</p>	<p>Pigeonpea at KVK crop Cafeteria, Bargarh and at peak vegetative stage</p>
		
<p>Standing pigeonpea crop at vill. Nagaon. Bargarh</p>	<p>pigeonpea crop at pod maturity stage (vill. Nagaon, Bargarh)</p>	<p>Field day p.pea at Demo village. Shohella block, Bargarh</p>

9. Farmers' training photographs

	
<p>Farmers training at village: Patrapalli, GP; Nuagarh, Block: Bhatti</p>	<p>Farmers training at Vill/GP.NaogaonBlock; Shohella</p>

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

		
Field visit for disease/pest surveillance in Kharif greengram: Vill: Chitakhai, Block: Shohella	Inspection of Proper drying of harvested greengram at Vill.Patrapalli, GPNuagarh, Block: Bhatli	Storing of Greengram by Prosuperbag at Vill: Chitakhai, Block: Shohella

11. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received(Rs.)	Budget Utilization(Rs.)	Balance(Rs.)
Pigeonpea	i) Critical input	1,80,000	1,80,000	0
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total			
Greengram	i) Critical input	1,80,000	1,80,000	40,000
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total			

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

A) Farmers and farm women (on 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
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others(Market led)	2	35	0	35	7	0	7	08	0	8	50	0	50
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL													

1. Rural Youth (on 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			
Nursery Management of Horticulture crops	1	9	0	9	0	0	0	1	0	1	10	0	10
Training and pruning of orchards													
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming													
Seed production	1	3	5	8	3	3	6	-	-	-	6	9	15
Production of organic inputs													
Planting material production													
Vermi-culture	1	0	9	9	0	1	1	0	0	0	0	10	10
Mushroom Production	1	0	12	12	0	3	3	0	0	0	0	15	15

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			
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													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other													
Total													

D) Farmers and farm women (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			
I. Crop Production													
Weed Management	1	18	-	18	4	-	4	3	-	3	25	-	25
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management	1	8	-	8	-	-	-	17	-	17	25	-	25
Soil & water conservation													
Integrated nutrient Management	2	22	25	47	2	-	2	1	-	1	25	25	50
Production of organic inputs													
Others													
Total	4	48	25	73	6	4	6	21	21	21	75	25	100

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			
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops	2	23	03	26	00	03	03	09	12	21	32	18	50
Off0season vegetables	2	37	00	37	02	00	02	11	00	11	50	00	50
Nursery raising													
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others	1	16	00	16	01	0	01	08	00	08	25	00	25
Total (a)	5	76	03	79	03	03	06	28	12	40	107	18	125
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others													
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others	1	03	11	14	01	00	01	03	07	10	07	18	25
Total (c)	1	03	11	14	01	00	01	03	07	10	07	18	25
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													

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
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others													
Total													
IX. Production of Input at site													
Seed Production													
Planting material production													
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													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development	1	24	0	24	1	0	1	0	0	0	25	0	25
Group dynamics	1	20	0	20	5	0	5	0	0	0	25	0	25
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths	1	0	19	19	0	6	6	0	0	0	0	25	25
WTO and IPR issues													
Others(Market led extension	2	35	0	35	7	0	7	8	0	8	50	0	50
Total	5	79	19	98	13	6	19	8	0	8	100	25	125

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				
Rabbit farming														
Poultry production														
Ornamental fisheries														
Composite fish culture														
Freshwater prawn culture														
Shrimp farming														
Pearl culture														
Cold water fisheries														
Fish harvest and processing technology														
Fry and fingerling rearing														
Lac culture														
Others (Hort)	3	33	0	33	04	01	05	07	00	07	44	01	45	
Total	14	93	39	132	27	11	38	20	0	20	140	50	190	

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	1	6	5	11	-	1	1	3	-	3	9	6	15
Integrated Pest Management	1	12	1	13	0	1	1	1	0	1	13	2	15
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm machinery and implements	1	6	4	10	3	0	3	2	0	2	11	4	15
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other													
Total	3	24	10	34	3	2	5	6	0	6	33	12	45

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 Science										
Seed Production	RY	Objective of seed packaging, handling and Seed storage	2	On	6	9	15	3	4	7
Seed Production	RY	Pulse Seed Production	2	Off	15	-	15	15	-	15
Seed Production	VT	Scientific method of pulse seed production for income generation	4	On	10	-	10	-	-	-
Crop Production	F&FW	Green manuring in rice production	1	Off	25	-	25	3	-	3
Crop Production	F&FW	Integrated weed management in Direct Seeded Rice production	1	Off	25	-	25	7	-	7
Crop Production	F&FW	Integrated Crop Management in Fingermillet	1	Off	25	-	25	17	-	17
Crop Production	F&FW	Integrated Nutrient Management in Groundnut	1	Off	--	25	25	-	-	-
Crop Production	IS	Varietal Characteristics of different Pigeon Pea Cultivars	1	Off	9	6	15	3	1	4
Plant Protection	F&FW	IDM against wilt complex in pigeon pea	1	Off	5	20	25	0	2	2
Plant Protection	F&FW	Importance of BPH tolerant rice varieties	1	Off	25	0	25	2	0	2
Plant Protection	F&FW	New molecules for BPH management in rice	1	Off	25	0	25	9	0	9
Plant Protection	F&FW	Blast management in rice	1	Off	25	0	25	5	0	5
Plant Protection	F&FW	integrated pest management for pod borer complex in pigeon pea	1	Off	25	0	25	10	0	10
Plant Protection	F&FW	IPM strategy for management of stem borer in maize	1	Off	25	0	25	9	0	9
Plant Protection	F&FW	IPM for greengram	1	Off	25	0	25	4	0	4
Plant Protection	F&FW	Cultural practices for control of S/F Borer in Brinjal	1	Off	25	0	25	12	0	12
Plant Protection	F&FW	sucking pest management in marigold	1	Off	25	0	25	14	0	14
Plant Protection	Ry	Production of bio-pesticides for income generation	2	On	15	0	15	0	0	0
Plant Protection	IS	New molecules for BPH management	1	Off	13	1	14	1	0	1
Plant Protection	VT	Production of commercial Botanicals & biopesticides	4	On	10	0	10	1	0	1
Horticulture	RY	Commercial floriculture in Rural Area	1	OFF	15	0	15	01	00	01
Horticulture	RY	Scientific Mangement of Cucurbits in Trellises	2	On	14	1	15	03	01	04
Horticulture	F&FW	Baby corn cultivation a better option in rain fed upland	1	Off	25	0	25	09	00	09
Horticulture	F&FW	Offseason cauliflower cultivation	1	Off	25	0	25	01	00	01
Horticulture	F&FW	Production technology of off season tomato	1	Off	25	0	25	12	0	12
Horticulture	F&FW	INM in Broccoli	1	Off	8	17	25	14	03	17
Horticulture	F&FW	Cultivation techniques of improved variety marigold	1	Off	25	0	25	3	0	3
Horticulture	F&FW	INM in Marigold	1	Off	7	18	25	4	7	11
Horticulture	F&FW	Importance Micronutrient application Broccoli	1	Off	25	0	25	04	00	04
Horticulture	VT	Planting material Production forLivelihood	4	On	10	00	10	01	00	01

H) Vocational training programmes for Rural Youth

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	
Pulse	Seed Production	Scientific method of pulse seed production for income generation	4	10	-	10	Increase in Area of Seed Production	10ha	4	4
Vermi Compost	Income generation	Development of vermicompost unit for self-employment	5	0	10	10	Vermicompost Unit	4	4	3
Planting material	Planting material production	Planting material production for livelihood	4	10	0	10	Nursery	2	2	1
Plant protection	Income generation	Production of commercial Botanicals & biopesticides	4	10	0	10	Bio-production unit	10	3	2

*Training title should specify the major technology /skill transferred

3. Sponsored Training Programmes

Sl.No	Title	Thematic area	Month	Duration (days)	Client PF/R/Y/EF	No. of courses	No. of Participants												Sponsoring Agency
							Male			Female			Total						
					Others		SC	ST	Others	SC	ST	Others	SC	ST	Total				

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

Nature of Extension Activity	No. of beneficiaries	Farmers				Extension Officials			Total		
		M	F	T	SC/ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	4	145	40	185	29	4	2	6	149	42	191
KisanMela	1	389	111	500	32	4	3	7	393	114	507
KisanGosthi	3	35	0	35	25	4	1	5	39	1	40

Exhibition	3	4800	3600	7400	38	17	9	26	4817	3609	8426	
Film Show	20	288	132	420	26	12	4	16	300	136	436	
Method Demonstrations	21	198	38	236	16	6	6	12	204	44	248	
Farmers Seminar	1	42	8	50	34	5	1	6	47	9	56	
Workshop	2	165	35	200	19	24	12	36	189	47	236	
Group meetings	28	232	102	334	35	5	7	12	237	109	346	
Lectures delivered as resource persons	82	45	370	415	31	8	5	13	53	375	428	
Advisory Services	20	70105	9843	79948	27	35	17	52	70140	9860	80000	
Scientific visit to farmers field	178	501	102	603	24	44	20	54	555	122	677	
Farmers visit to KVK	1347	814	533	1347	33	34	25	59	848	558	1406	
Diagnostic visits	22	49	17	66	34	11	6	17	60	23	83	
Exposure visits	13	47	250	297	33	22	4	26	69	254	323	
Ex-trainees Sammelan	1	21	4	25	26	3	2	5	24	6	30	
Soil health Camp	2	82	18	100	32	2	2	4	84	20	104	
Animal Health Camp	1	192	33	225	36	9	3	12	201	36	237	
Agri mobile clinic	-			-								
Soil test campaigns	6	196	54	250	26	4	2	6	200	56	256	
Farm Science Club Conveners meet	15	220	0	220	28	10	8	18	230	8	238	
Self Help Group Conveners meetings	24	0	240	240	32	3	12	15	3	252	255	
Mahila Mandals Conveners meetings	-			-								
Celebration of important days (specify)	6	318	162	480	31	12	5	17	330	167	497	
gSankalp Se Siddhi	-			-				147				
Swachhata Hi Sewa	26	757	367	1124	38	24	9	33	781	376	1157	
Mahila Kisan Divas	1	0	50	50	18	0	2	2	0	52	52	
Any Other (Specify)												
Total		1827	79641	16109	94750		302	167	606	79953	16276	96229

4. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	2
Radio talks	4
TV talks	6
Popular articles	15
Extension Literature	43
Other, if any	

5. a. Production and supply of Technological products

Village seed

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farmers to whom seed provided			
					SC	ST	Other	Total

KVK farm

Crop	Variety	Class	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided								
					SC		ST		Other		Total		
					M	F	M	F	M	F	M	F	
Paddy	Swarna Sub-1	FS	342.2	8,10,314 (Sale to OSSC, Baragarh)									
Paddy	Bina Dhan-11	FS	86.85	Unprocessed									
		CS	163.35	Unprocessed									
Finger millet	Arjun	TL	0.2	680					2	-	2	-	
Groundnut	Devi	TL	0.7	3500					7	2	7	2	
Paddy (Black Rice)	Kalamaliphulla	TL	1.25	2500					3	2	3	2	
Paddy (Brown Rice)	Guda	TL	0.75	1500					2	-	2	-	
Paddy	Nuaacharamati	TL	1.4	3080					4	1	4	1	
Paddy	Hasanta	TL	1.46	3212					3	2	3	2	
Paddy	Kalajeera	TL	1	2200					2	-	2	-	
Paddy	Lankeswari	Non seed	0.35	620					1	-	1	-	
Paddy	Bina dhan-11	NS	1.6	2832					1	-	1	-	
Paddy	Pratikhya	NS	1.6	2832					1	-	1	-	
Paddy	Swarna	NS	1.45	2567					1	-	1	-	
Total	-	-	604.16	8,35,837					27	7	27	7	

Hog											
Others (Pl. specify)											
Fisheries											
Indian carp											
Exotic carp											
Mixed carp											
Fish fingerlings	Amur Carp	2000	8000	12	-	-	-	7	-	19	-
	Jayanti Rohu	2000	8000	11	-	-	-	5	-	16	-
Paddy straw mushroom spawn	V.Volvacea & OSM-11	400	5600	0	2	0	1	0	17	0	20
Paddy straw mushroom	V.Volvacea & OSM-11	80	8000	1	5	4	6	8	3	13	14
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 :	Nursingha Ch Barik, Sr. Scientist and Head KVK Bargarh
Address :	KVK, Gambharipali, Bargarh
e-mail :	kvkbaragarh.ouat@gmail.com
Phone No. :	06682225238,
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 2018	Arhar	PRG 176	120	50	16.12	C/S
Rabi 2018-19	Greengram	IPM 02-14	800	100	4.92	C/S
Summer/Spring 2019	-	-	-	-	-	-
Kharif 2019	Arhar	PRG 176	64	8	50 (unprocessed)	C/S
	Greengram	IPM 02-14	150	5(out of 30)	25 (unprocessed)	C/S
Rabi 2019-2020	Greengram	IPM 02-14	150	53 (30 of rabi + 23 of kharif)	Crop at seedling stage	C/S

iii) Financial Progress

YEAR	Fund received (2016-17, 2017-18 and 2018-19)		Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)		Remarks
	Infrastructure	Revolving fund	Infrastructure	Revolving fund	Infrastructure	Revolving fund	
2016-17	-	1.54614	-	0.30970	-	1.23644	
2017-18	50	3.45386	48.36336	3.78307	1.63664	3.63311	
2018-19	-	-	-	4.47968	1.63664	3.98693	
2019-2020	-	-	0.09912	2.94760	1.53752	6.42679	

iv) Infrastructure Development

Item	Progress
Seed processing unit	95% work has been completed
Seed storage structure	

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

Item	Title	Author's name	Number	Circulation
Research paper			-	-
Seminar/ conference/ symposia papers	A study on storage life of green gram by farmwomen of Bargarh district, A compendium of abstract of papers on FFCSWR-2019:PP-134	Mrs. Susrita Sahu, Scientist(Home Sc), Miss Rukeiya Begum, Scientist(Plant Sc.), Dr. Anil Kumar Swain, Senior Scientist & Head, KVK, Bargarh	-	-
Books				
Bulletins	Scientific cultivation of Groundnut	Mr. Nrusingh Charan Barik, Scientist (Plant Protection)	500	480
	Commercial cultivation of Pigeon pea	Mr. Nrusingh Charan Barik, Scientist (Plant Protection)	500	440
	Success ful agro -technologies for Baragarh	All staff	50	49
	Success story of KVK, Baragarh 2011-12 to 2018-19	All staff	50	49

Item	Title	Author's name	Number	Circulation
News letter	Dhanushree	All staff	500	480
Popular Articles	Cultivation of Cabbage, Dolichos bean,pea,summer okra, Bittergourd, Kharif Radish, Muskmelon, Watermelon	Mr. S.K. Meher ,Scientist (Horticulture)		
Book Chapter	-	-	-	-
Extension Pamphlets/ literature				
Technical reports	Annual Progress Report 2018-19	All staff	20	19
	Action plan 2019-20	All staff	20	19
	Report for QRT Team	All staff	30	29
Electronic Publication (CD/DVD etc)	-	-	-	-
TOTAL				

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

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1	Short course training prog.	One health special reference to Fisheries & Aquaculture.	Dr. Anil Kumar Swain, Senior Scientist & Head	18.02.19 - 27.02.19 (10 DAYS)	ICAR-CIFE, Mumbai
2	Short course Training Prog.	Contemporary approaches in quality seed production of pulse crops for enhancing productivity and nutritional security	Ms. Rukeiya Begum, Scientist (Plant science)	13.11.19 - 20.11.19 (8days)	IIPR, Kanpur
3	SLREC Meeting	SLREC Meeting	Dr. Anil Kumar Swain, Senior Scientist & Head & Mr. S.K. Meher , Scientist (Horticulture)	22.05.2019-25.05.2019	OUAT, BBSR
3	Workshop on "Farmers First for conserving Soil & water resources in Eastern Region"	Poster presentation on " A study on storage life of green gram by farmwomen of Bargarh district "	Ms. Rukeiya Begum, Scientist (Plant science)	.06.02.19-08.02.19 (3DAYS)	ICAR-IISWC, Koraput, Odisha
4	ASCI Training	Training of Trainers organized by ASCI	Mr. S.K. Meher , Scientist (Horticulture) & Mr. T. C. Panda, Scientist (Agril. Engg.)	09.12.19-11.12.19	WBUAFS, Kolkatta

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
5	Orientation Training Prog.	Operational modalities for KVKs	Ms. Rukeiya Begum, Scientist (Plant science) & Mr. T. C. Panda, , Scientist (Agril. Engg.)	27.12.19-29.12.19	DEE,OUAT, BBSR
6	ASCI Training	Training of Trainers organized by ASCI	Ms. Rukeiya Begum, Scientist (Plant science)	28.05.2019-30.05.2019	OUAT, BBSR
7	Pre-rabi Meeting	Pre-rabi Meeting	Mr. N. C. Barik, Senior Scientist & Head	7.11.19-8.11.19	OUAT, BBSR
8	Review meeting of seed hub & RF	Review meeting of seed hub & RF	Mr. N. C. Barik, Senior Scientist & Head	21.11.19 & 22.11.19	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)

Success Story : Aromatic Rice Cultivation Upholds Farmer's Socio-economic Prosperity

Name of farmer	Mr. Brindaban Bihari
Address	Village- Deshbhatli , Block- Bheden
Contact details (Phone, mobile, email Id)	Mobile No.-9348612746
Landholding (in ha.)	3
Name and description of the farm/ enterprise	<ul style="list-style-type: none"> • Mr. Brindaban Bihari is a marginal farmer . • He was cultivating rice variety such asMTU 1105, Yamuna, Swarna Sub 1, Subarna etc. • During previous time he was confronted with several problems such as - • High input use due to low input response efficiency, • High cost of cultivation with increased cost of inputs, • Heavy disease pest infestation because of conducive climatic factors, • Distress sale of produce due to middle men exploitation • Disrupted marketing system. • He was in depression during 2017 when BPH completely destructed his field and made him indebted. • With this depression he contacted KVK Scientists for overcoming the badly situation.
KVK intervention	<ul style="list-style-type: none"> • Scientists of KVK proactively attended his case with future strategic farm planning for better adaptation to climatic and socio-economic situation.

	<ul style="list-style-type: none"> • KVK provided critical inputs as 10 kg quality seed of aromatic rice var. NuaAcharmati under FLD prog. . • He was also technically supported for green manuring, seed and seedling treatment, nursery raising , line transplanting micro nutrient, Integrated management of disease, pest and weed etc., . • He undertook soil testing for use of balanced dose of fertilizer. • He was advised for comparative lower fertilizer application due to several integrated methods. • KVK scientists made training and field visit with regular inspection of field to provide support at critical crop stages. • To overcome distress sale, KVK facilitated value addition and market linkage by several capacity building program.
Economic Impact:	<ul style="list-style-type: none"> • He produced 9q Nuaacharmati paddy from 0.2 ha land with a yield potential of 45 Q/ha. • Mr. Bihari earned Rs. 25525 from Nuaacharmati with a net profit of Rs.12000 / 0.2 ha (Rs. 4400 from selling 2.5 Q as seed & Rs.21125 from processed aromatic rice only @Rs 50/kg) . • He used to produce 42 q/ha normal paddy in a season with a net profit of Rs 37000 /ha • This inspired him to expand his aromatic paddy cultivation in the next year as he is expected to get a net profit of RS. 60000/ha.
Social impact	Many farmers are now showed their interest for this aromatic paddy due to its high yield potential (45q/ha) than local aromatic paddy (29q/ha).
Environmental impact	<ul style="list-style-type: none"> • He tried to reduce chemical input by applying organic bio fertilizer and bio pesticide. • This reduced cost of cultivation and improved soil health with environmental condition.
Horizontal/ Vertical spread	<ul style="list-style-type: none"> • He is interested in expanding the aromatic rice area and marketing the same being for high demand of aromatic rice. • He is now inspiration for aromatic rice cultivation for other fellow paddy growers of 6 blocks .



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	SHG led extension	Mrs. S. Sahu Scientist (Home Sc.)	Few members of selected WSHG from 9 blocks out of 12 blocks have been gone through intensive training of 8 days on vermicompost production in collaboration with Dept. of women & child Development & Mission Shakti. They are now acting as frontline trainer for the other fellow groups.

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	Watermelon	Placing the watermelon in the field by digging a hole . Then covering it with soil & paddy straw	To prevent cracking of watermelon during hailstorm & from monkey menace

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	160	4900q	255	Y
2	Pulse	320	864 q	550	Y
3	Vegetable	180	900q	1300	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, Query redressal	To identify the problem of Farmers & Farm women
2	Group meetings, Farmers scientist interaction , Whatsapp group	To sort out the constraints faced by Rural Youths
3	Diagnostic field visit, 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 Soil and Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
01	Mrida Parikshyak Soil Testing Kit (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			
85	0	85	85	21	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"> • workshop on soil health management • Distribution of soil health card • Exhibition on soil health management • Farmers-scientist Interaction 	133	1	Mr. Jyoti Ranjan Pradhan Collector and District Magistrate, Baragarh	30	120

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 safe use of pesticides	1	40	Spraying Techniques
Seed treatment campaign	1	25	Seed treatment with seed treating chemicals
Film show	1	25	vermicompost production, poultry rearing
Demonstration on solar nano pump	1	20	Use of solar nano pump in nutritional Garden
Awareness on Soil test	1	30	Collection of soil sample
Awareness on INM	1	25	Inm in cole crops
Swachhata Campaign	1	40	Ban on single use of plastic

3.14. RAWE/ FET Programme– is KVK involved? (Y/N)

No of student trained	No of days stayed

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

Date	Name of the person	Purpose of visit
16.01.2019	Dr. Biswanath Sarangi, Emeritus Scientist, ICAR-CIWA	To collect information on collaboration work of KVK-ATMA on Gender Sensitization
15.03.2019	Dr. B. K. Mohapatra, JDE,DEE,OUAT, BBSR	Participated in the SAC Meeting
09.04.2019	Dr. S. Pattanaik, Member- Board of management, OUAT	Review the progress of KVK activities
07.05.2019	Mr. Indramani Tripathy, Collector & District Magistrate, Bargarh	Participated in Kisan Diwas (Akshya Trutiya)

Date	Name of the person	Purpose of visit
07.09.2019	Dr. R. K. Samanta, Former V. C, BCKVv	As QRT chairman
07.09.2019	Dr. Y. V. Singh, Former Director, ICAR- ATARI, Jodhpur	As QRT member
07.09.2019	Dr. R. B. Sharma, Former Director, EE, IGKV	As QRT member
07.09.2019	Dr. C. Satpathy, Former Director, EE, OUAT	As QRT member
07.09.2019	Dr. S.S. Singh, Director, ICAR- ATARI, Kolkatta	As QRT member
07.09.2019	Dr. F. H. Rehman, Principal Scientist, ICAR- ATARI, Kolkatta	As QRT member
07.09.2019	Dr. P. K. Roul, Director, EE, OUAT	Participated in QRT meeting
07.09.2019	Dr. M. P. Nayak, JDE, DEE, OUAT, BBSR	Participated in QRT meeting
11.07.2019	Mr. S. Pujari, Hon'ble M.P., Baragarh	Graced the National Animal Health Camp as Chief Guest
29.10.2019	Dr. S. S. Singh, Director, ICAR- ATARI, Kolkatta	Participated in SAC Meeting
08.11.2019	Prof. S. K. Samantaarai, Former Dean, OUAT	Formal visit
18.11.2019	Dr. B. K. Mohapatra, JDE, DEE, OUAT, BBSR	Review the progress of KVK activities
19.11.2019	Mr. Ashok Ku. Panigrahi, Ex-MLA, Bijepur	Formal visit

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)
Application of Oxyfluorfen 23.5 EC @ 80 ml/ac. with in 3 DAS for weed control in groundnut	8000	92	18100/ha	31500/ha
Spraying 1% urea @ 45 and 55 DAS, Spraying Sectin 60 WG @ 600 gm/acre (Fenamidone 10% + mancozeb 50%) after appearance of the late blight disease in potato	600	66	70000/ha	86000/ha
Spraying of Ethrel for changing the sex ratio in pumpkin	1400	62	72000/ha	92000/ha
Use of Tractor operated axial flow paddy thresher	4000	98	18000/ha	21000/ha
Paddy straw mushroom production from threshed straw	1100	93	1700/100bed	1800/100bed

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

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

Horizontal spread of technologies	
Technology	Horizontal spread
Cultivation Technology of Finger millet Var. Arjuna	Spread in 24 villages of 4 blocks

Name of farmer	Basudev Kare
Address	At- Dhengrajpur, P.O-, Block- Paikmal, Dist- Bargarh
Contact details (Phone, mobile, email Id)	Mobile No.-
Landholding (in ha.)	
Name and description of the farm/ enterprise	<ul style="list-style-type: none"> • Basudev Kare is a low to average farmer having few crops on rainfed farming system. • Generally growing paddy, green gram, groundnut and millet with fallow during Rabi season. • He was not satisfied with the overall output and farm return as per the low yield and fallow land due to water scarcity. • He was cultivating local millet variety with less productivity i.e. 12q/ha.
KVK intervention	<ul style="list-style-type: none"> • KVK team approached him through popularisation of high yielding finger millet variety “Arjuna” for rainfed upland farming situation. • He was provided with 4 kg of seeds for 0.4 ha area cultivation during Kharif. • KVK scientists insisted for scientific farming such as quality seed, nursery management, seedling (leaf & root) treatment, line transplanting, proper drainage system with critical irrigation, and IPDM. • Regular technological backstopping through training, field visit was phenomenal in adoption of HYV Arjun • KVK also collaborated with line department officials, ORMAS, NGOs for better marketing of his harvested millet
Economic Impact	<ul style="list-style-type: none"> • Net income of Rs 6880/ac from local millet (12q/ha) switched over to Rs 16,320/ac from HYV millet (18q/ha). • Seeing overwhelming return, he expanded millet area 1 ha with the same improved variety in next season.
Social impact	<ul style="list-style-type: none"> • Significant yield enhancement in rainfed area incite other fellow farmers for go for seed replacement by HYV Arjun from him. This was phenomenal in establishing Village Seed Chain system. • Villagers were convinced with trial improved technologies not only for significant yield enhancement rather sensitization through training, field day regarding nutritional utility of millet and market demand of the product in present context. • Villagers cite his name as progressive millet producer to the outsiders or officials during their visit.
Environmental impact	Utilization of Fallow upland in rainfed situation prevent soil and water erosion and increase cropping intensity in the agro ecological situation.
Horizontal/ Vertical spread	Observing his success, around 40 farmers purchased HYV seeds from him only. He also stored seeds for next year large area cultivation.

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	Seed treatment with Carboxin 37.5%+ Thiram 37.5% @ 2.5 gm/kg and foliar spraying of Isoprothilane 40% EC @ 750 ml/ha twice at 15 days interval starting from the initiation of blast disease in paddy	Better control of blast More grains per panicles	Increase in yield by 8 q/ha
2	Technological Dissemination of pigeon pea var. PRG 176 with nipping practice	Short duration variety, More branching with more pods Less incidence of diseases & pests	Productivity has increased by 37.8 %
3	Popularization of Kharif onion Bhima super	More income in offseason Meet the market demand	Net profit increased by Rs. 16300/ha
4	Use of tractor drawn seed cum fertilizer drill for sowing of green gram	Better utilization of residual moisture, Sowing & fertilizer application done simultaneously , Saving of time & money	Working efficiency is increased by 98%
5	Rearing management of Rainbow Rooster	Faster growth rate leads to more meat production More egg production, Better acceptance for multicolour	Net profit is increased by Rs.6970 /10 bird
6	Popularization of floating feed i.e. Commercially formulated fish feed (with protein, fat, vitamins and mineral mix) (5-2% of avg. B. wt.) in fisheries.	Rate of feed wastages is less Easily taken up by fishes Availability of more no. of table size fish	Productivity has increased by 81.6%

4.4 Details of innovations recorded by the KVK

Thematic area	Production of bio-control pesticides
Name of the Innovation	Bio-formulation from local plants
Details of Innovator	Sri Jagadananda Khamari, At/P.O—Gudesira BI-Bargarh
Back ground of innovation	He is generally growing paddy in 4 ha. & vegetable in 0.5 ha of land. He was depressed about the crop loss due to more disease & pest incidences in every year for which he had spent more money for purchasing chemical insecticides & Pesticides. Once after getting some information on bio-formulation for solution of his problem, he wanted to enrich it for obtaining more benefit from this.
Technology details	He prepared a bio-formulation with leaves of 25 different plants among which turmeric, tamarind, custard apple, bel are more important. He first soaked 1 kg. of each leaf in 25 lit of cow urine for 21 days. Then he filtered the extract of the mixture. He sprayed it @ 1:10 ratio on paddy & vegetables such as brinjal & cole crops.
Practical utility of innovation	This bio-extract solution is now effectively control all types of insect pests in different abovesaid crops.

4.5. Details of entrepreneurship development

Entrepreneurship development						
Name of the enterprise	Integrated farming system					
Name & complete address of the entrepreneur	Mr.Soumya Ranjan Das, At/P.O—Khuntulipali BI- Bheden					
Role of KVK with quantitative data support:	<ul style="list-style-type: none"> • Soumya Ranjan Das is an enthusiastic dynamic dilligent farmer. • He ieft his job in ITI sector owing to single child of his parents • His father who has also keen interest in farming loves to experiment with new commodities. • So he thought to help his father in farming to make it more scientific & remunerative . • To acquire advanced practical knowledge in IFS he approached KVK, Bargarh • KVK team guided him by observing interest and curiosity through regular field visit. • He was supplied with 2000no. of different IMC for pond based IFS & guided with SRI metod of paddy cultivation • He has been suggested to go for a floating feed frame to reduce feed wastage. • Insisted to install Drip irrigation in banana for water conservation • Promoted to use power weeder in vegetables to save labour & time 					
Timeline of the entrepreneurship development	<ul style="list-style-type: none"> • 2015-16: Released different combination of fingerlings in the pond with mango,banana,drumstick plantation in pond dyke • 2016-17: Suggested to go for improved horticultural crop with tomato & brinjal. cauliflower, bitter gourd,broccoli etc & made a cow shed for dairy to meet the compost demand • 2017-18: Installation of drip irrigation in banana. • 2018-19: Purchased a power weeder for vegetables to save labour & time 					
Technical Components of the Enterprise	Fish, dairy, vegetables, drip irrigation, power weeder					
Status of entrepreneur before and after the enterprise	Sl. No.	Crop	Area (Ac.)	Net income before adoption (Rs)	Area (Ac.)	Net income after adoption (Rs)
	1	Paddy (2 season)	12	120000	12	180000
	2	Fish	1	20000	1	50000
	3	Vegetables	1.5	45000	3	160000
	4	Banana	0.5	11000	1.5	40000
	5	Dairy			3 no.	40000
			Total		196000	Total
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing of the product etc. (Economic viability of the enterprise):	He is now efficiently used his field bi-prodcts i.e paddy straw & vegetable wastages for dairy. Then use the cow dung in pond & vegetable field as compost along with adequate use of the pond water for cultivation purpose.Meet the labour requirement by use of farm machinaries such as tractor, rotavator, power weeder etc.He has created a unique place in the local market for producing different agricultural commodities in a different method					
Horizontal spread of enterprise	12farmers of nearby 3 blocks are following the pond based IFS for better utilization of their local resources.					

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-CTCRI, BBSR	To promote tuber crops in rainfed uplands
ICAR-CIWA, BBSR	To study the impact of gender mainstreaming activities of KVK
ICAR-NRRI, Cuttack	Agro advisory services, contingent planning, improved paddy seeds
ICAR-IIHR, Bengaluru	Supplying vegetable seeds to KVK
ICAR-CIFA, BBSR	Supply of critical inputs & technologies for fishery activities
Dept. of Agriculture, Bargarh	Creating awareness on safe use of pesticides, collaborative celebration of special days, Resource Person for HRD training
Dept. of Horticulture, Bargarh	Inspection of nurseries, Resource Person for HRD training
Animal Resources Dept., Bargarh	Participated in Exhibition & Animal health camp
Dept. of Fishery, Bargarh	Joint field visit, Resource Person for HRD training, 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	Radio talks, Participation in Farm & Home programme
Doordarsan, Sambalpur	TV talk, SAC meeting
State Livestock breeding Farm, Chipilima	For supply of poultry chicks & ducklings
NABARD, Bargarh	Field visit under different funded project
NGOs: Debadutta Club, Ahinsa Club, Matrushakti, Basix	Pulse seed production, Promotion of organic farming, Exposure visit, HRD training Prog

5.2. List of special programmes undertaken during 2018-19 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies (**information of previous years should not be provided**)

a) Programmes for infrastructure development

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

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

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Capacity Building of women SHGs Developed under Mission Shakti	Training on Vermicompost Production	August,2019	Dept. of women & Child Development & Mission Shakti, BBSR	1115000
Farmers Science Interaction	Solve the queries of farmers	06.11.2018	ATMA	20000

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 (Kg)	Cost of inputs	Gross income	
1	Vermicompost	2010	80.4	<i>Eisenia. Foetida</i>	vermin	12	4800	6000	Sold to farmer & nearby KK
2	Nutritional Garden	2017	400	Local	Vegetable	217	485	1085	Public sale
3	Horticultural Demo Unit	2015-16	400	Hybrid	Vegetable	200	515	100	Public Sale
4	Mango Orchard	2004-05	5 ha.	Hyv	Fruits	1500	5000	7500	Public Sale
Total						1929	9750	14685	

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty (q)	Cost of inputs	Gross income	
Paddy	22.06.2018	20.11.2018	8	Swarna sub-1	FS	342.2	504,000	10,37,208	To be sold to OSSC
Pigeonpea	23.06.2018	04.01.2018	0.5	PRG 176	FS	0.2	1000	2400	To be used for upcoming season

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.	Vermicompost	3000	32000	45000	Recycling of farm wastage into vermicompost

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Fish	Amur carp & JayantiRohu	Fingerlings	6500	19000	26000	For OFT & FLD purpose

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
August	150	6	-
September	250	5	
October	0	0	
November	425	17	
December	600	24	
Total :	1425	52	

(For whole of the year)

Utilization of staff quarters

Whether staff quarters has been completed: Yes Only One

No. of staffs quarters: One, Date of completion: 2002

Occupancy details:

Months	Q I	Q II	Q III	Q IV	Q V	Q VI
Jan.2019-Nov.2019	Yes					

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Contingency	State bank of India	Godbhaga	10777584215
Revolving fund	State bank of India	Godbhaga	30163765041
Seed hub	State bank of India	Kadobahal	36026592693

7.2 Utilization of funds under CFLD on Oilseed (*Rs. In Lakhs*) 2018-19

Item	Released by ICAR		Expenditure		Unspent balance as on – 01.04.2019 Kharif
	Kharif	Summer	Kharif	Summer	
Ground nut	240000	240000	168147	114453	197400

7.3 Utilization of funds under CFLD on Pulses (*Rs. In Lakhs*) 2018-19

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2019
	Kharif	Rabi	Kharif	Rabi	
Green Gram & Pigeon Pea	450000	450000	422498	376335	101167

7.4 Utilization of KVK funds during the year 2018-19

Sl. No.	Particulars	Sanctioned	Released	Expenditure
1	2	3	4	5
(A)	RECURRING CONTINGENCIES (REVENUE)			
1.	Pay and allowances			
2.	Travelling allowances	75,000	75,000	75,000
3.	Contingency			
a.	Stationary, telephone, postage & other exp. On office running publication of newsletters	3,20,000	3,20,000	3,19,926
b.	POLs, repair of vehicles, tractor & equipments			
c.	Training of farmers (Melas / refreshment of trainees)			
d.	Training materials (need based material and equipments for conducting the training)	2,40,000	2,40,000	2,39,964
e.	Training on extension functionaries			
f.	Training on Rural Youth			
g.	Frontline Demonstration	1,60,000	1,60,000	1,60,069
h.	On-farm testing (on need based location specific and newly generated information of the major production systems of the area.	80,000	80,000	79,955
i.	Soil & Water testing & issue of soil Health cards	0	0	0
j.	Maintenance of buildings	0	0	0
k.	SCSP Contingencies	2,00,000	2,00,000	2,00,086
	TOTAL (A)	10,75,000	10,75,000	10,75,000
(B)	NON-RECURRING CONTINGENCIES (CAPITAL)			
a.	Equipments & Furnitures			
	i) Office automation			

Sl. No.	Particulars	Sanctioned	Released	Expenditure
	ii) Furniture & fixtures			
b.	Works			
	i) Repairing & Renovation	7,40,000	0	0
c.	Vehicle			
d.	Library (purchase of assets like books & journals back volume)			
	TOTAL (B)	7,40,000	0	0
I	REVOLVING FUND	0	0	0
	Grand TOTAL (A+B+C)	18,15,000	10,75,000	10,75,000

Utilization of KVK funds during the year 2019 (1.4.2019 to 31.12.2019)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
1	2	3	4	5
(A)	RECURRING CONTINGENCIES (REVENUE)			
1.	Pay and allowances			
2.	Travelling allowances	1,10,000	82,500	54,000
3.	HRD	30,000	22,500	15,000
3.	Contingency			
a.	Stationary, telephone, postage & other exp. On office running publication of newsletters	4,00,000	3,00,000	9,34,000
b.	POLs, repair of vehicles, tractor & equipments			
c.	Training of farmers (Melas / refreshment of trainees)			
d.	Training materials (need based material and equipments for conducting the training)	3,00,000	2,25,000	
e.	Training on extension functionaries			
f.	Training on Rural Youth			
g.	Frontline Demonstration	1,50,000	1,12,500	
h.	On-farm testing (on need based location specific and newly generated information of the major production systems of the area.	1,50,000	1,12,500	
i.	Soil & Water testing & issue of soil Health cards	0		
j.	Maintenance of buildings	0		
k.	SCSP Contingencies	3,00,000	2,25,000	
	TOTAL (A)	13,00,000	9,75,000	10,00,300
(B)	NON-RECURRING CONTINGENCIES (CAPITAL)			
a.	Equipments & Furnitures			
	i) Office automation			

Sl. No.	Particulars	Sanctioned	Released	Expenditure
	ii) Furniture & fixtures			
b.	Works			
	i) Repairing & Renovation		0	0
c.	Vehicle			
d.	Library (purchase of assets like books & journals back volume)	10,000	0	0
	TOTAL (B)	10,000	0	0
I	REVOLVING FUND	0	0	0
	Grand TOTAL (A+B+C)	14,50,000	9,75,000	10,00,300

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
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 to DEE, OUAT) = 11.56	0.61
1.4.2019 to 31.12.2019	0.61	3.39	4.69	1.30 on 1.1.2020

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- vermicompost production, Use of gender friendly farm tools, vegetable cultivation, Mushroom production, Duckery, poultry, Dairy management

(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 by Bargarh & Attabira NAC market.

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	With both
Research-Extension linkage meeting	7	Kharif & Rabi	-	-	Both
Celebration of special days (World Soil Day, Krishak Diwas, World Food Day, Women in Agriculture Day, Mahila Kisan Divas, National constitution Day etc.)	6	Kharif & Rabi	-	-	Both
Field visit	89	Kharif & Rabi	-	-	Both
Dist. Level Farmers Fair	1	Rabi	-	-	Both
District Agriculture strategy Planning Meeting	2	Kharif & Rabi	-	-	Both

8 Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
Die-back	Pointed gourd	12.05.2019	160	40	350
Zinger Rot	Ginger	24.09.2019	120	85	280

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)
Chicken fox	Rain bow rooster	27.10.2019	82	300	2500

9.1. Nehru Yuva Kendra (NYK) Training

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

9.2. PPV & FR Sensitization training Programme

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

9.3. *mKisan* Portal (National Farmers' Portal/ SMSPortal)

Type of message	No. of messages	No. of farmers covered
Crop	12	80,000
Livestock	-	80,000
Fishery	-	80,000
Weather	1	80,000
Marketing	-	80,000
Awareness	4	80,000
Training information	1	80,000
Other	2	80,000
Total	20	80,000

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	80000
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
11.09.2019	personal hygiene, Animal health camp& Plantation
12.09.2019	Use of fish intestine for Planktofert and vermicompost production
13.09.2019	Campaign on waste collection during district level meeting on Water management for agriculture and livelihood in collaboration with Foundation for Ecological Security
14.09.2019	Cleaning of office roof
15.09.2019	Collection of waste during cleaning of office library
16.09.2019	Weeding in nutritional garden& finger millet field
17.09.2019	Large scale plantation
18.09.2019	Use of poultry droppings in Azzola pit
19.09.2019	Use of eco-friendly weedicide & pesticides during diagnostic visit
20.09.2019	Cleaning of approach road to KVK
21.09.2019	Cleaning of pond dyke
22.09.2019	Weeding at paddy see production field
23.09.2019	Creating awareness on difference between non-biodegradable and biodegradable
24.09.2019	Awareness camp on personal hygiene among the SHGs members during training on vermicompost production
25.09.2019	Creating awareness on environmental cleanliness among the farming community
26.09.2019	Clean of campus of Forest Range Office, Bargarh by SHGs Members
27.09.2019	Vermi tanks are provided to SHGs members for conversion of organic wastes into vermi compost
28.09.2019	cleaning of Toilet
29.09.2019	Cleaning of village road
30.09.2019	Hand washing with soap during before and after taking food
01.10.2019	Awareness on maintaining clean & green environment
02.10.2019	Mass plantation, Debate competition, Village rally, School Level rally on ban of single use plastic

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	8	-
2. Basic maintenance	110	6200
3. Sanitation and SBM	51	14458
4. Cleaning and beautification of surrounding areas	100	17934
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	12	3400
6. Used water for agriculture/ horticulture application	12	1200
7. Swachhta Awareness at local level	18	480
8. Swachhta Workshops	1	1500
9. Swachhta Pledge	1	
10. Display and Banner	2	300
11. Foster healthy competition	1	1200
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)	1100	3000
14.No of Staff members involved in the activities	15	-
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (in details)		
Total		49672

9.6. Observation of National Science day

Date of Observation	Activities undertaken

9.7. Programme with Seema Suraksha Bal/ BSF

Title of Programme	Date	No. of participants

9.8. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used
Chhandapali U.P School	02.10.2019	Plantation, Swachhata activities, Ban on single use plastic	LCD Projector

Give good quality 1-2 photograph(s)

9.9. Details of 'Pre-Rabi Campaign' Programme

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

9.10. Details of Swachhta Hi Sewa programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	<ul style="list-style-type: none"> Awareness camp on personal hygiene Village Rally with school student Debate competition Road show Training on Vermicompost production 	26	1157	-	-

9.11. Details of Mahila Kisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	<ul style="list-style-type: none"> Promoting SHG activity Rangoli competition on agricultural activities Felicitation to best Farm women Exposure visit to mushroom unit 	1	50	-	-

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

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1	Sri Brundabana Bihari	Deshbhatli, Bheden 9348612746	Aromatic paddy production
2	Sri jagadananda Pradhan	Gudisira, Baragarh 9776389860	Bio-formulation
3	Sri Prassna Patel	Tal, Padampur,9777232795	Commercial horticulture
4	Sri Dolamani Barik	Lahanda, Attabira,9178058071	Vegetables Production
5	Mr. Sebak Bhoi	Remeta, Barapali, 7894988532	Farm Mechanization in vegetables
6	Smt. Rita Bhoi	Ainlapali, Bheden, 9861765620	Paddy straw mushroom production

9.13. Revenue generation

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

9.14. Resource Generation:

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

9.15. Performance of Automatic Weather Station in KVK

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

9.16. Contingent crop planning

Name of the state	Name of district/ KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Odisha	Bargarh	ICM	3	150	Spraying of 2% DAP at 20-30 DAS of greengram to combat poor vegetative growth due to cold climate
		IPM	4	400	Spraying of streptomycin@10lit/gm to control BLB
		INM	2	70	Spraying of Ethrel @ 5ml/lit for changing of sex ratio in pumpkin
		IWM	2	50	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 season drought

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

a) Year:

b) Introduction / General Information:

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

1. Details of TSP

a. Achievements of physical output under TSP during 2017-18

Programmes	Physical achievements
Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)	
On-farm trials (Number)	
Frontline demonstrations (Number)	
Farmers training (in lakh)	
Extension personnel training (in lakh)	

Programmes	Physical achievements
Participants in extension activities (in lakh)	
Seed production (in 96ones)	
Planting material production (in lakh)	
Livestock strains and fingerlings production (in lakh)	
Soil, water, plant, manures samples testing (in lakh)	
Provision of mobile agro – advisory to farmers (in lakh)	
No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)	

b. Fund received under TSP in 2017-18 (Rs. In lakh): NA

c. Achievements of physical outcome under TSP during 2017-18

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

d. Location and Beneficiary Details during 2017-18

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

12. Progress report of NICRA KVK (Technology Demonstration component) during the period

(Applicable for KVKs identified under NICRA)

Natural Resource Management

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

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

2. 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 progressive farmer award	Mr. Sumanta Padhan	2019	ICAR-IISWC, Koraput, Odisha	-	Micro irrigation in Dryland

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

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	Integrated Weed Management in Direct Seeded Rice production	Application of pyrazosulfuron @ 20 g/ha as pre-emergence stage i.e 0-3 DAS Followed by post-emergence Bispyribac sodium @ 25 g/ha as post-emergence i.e 25 DAS	30300	4000	
2	Aromatic rice production Var.NuaAcharmati	Varietal replacement with Nua Acharmati (Duration-130-134 days & is resistant to lodging and shattering having easy thresha) in place of swarna sub , Line transplanting, (Growing of Aromatic paddy Var.Nua Acharmati , Average Yield -4t/ha,	4000/1 q milled rice	130	
3	Demonstration of off season Cauliflower production	Planting at 45 x 45 cm NPK 80:60:60 Extremely early variety, very heat and rain tolerant Matures in 40 to 45 days after transplant,	110000	110	
4	INM in watermelon	Replacement of Cucucrbits with watermelon Var. Patengra INM in watermelon	100800	320	

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	Control of sucking pest in gerrngram	Green gram var. IPM 02-14 2)Seed treatment with thiomethoxam 70 WS 5gm/kg seed & ST with Tricodermaviride @ 4 gm / kg seed after 7 days of chemical treatment	8200	400	
6	Short duration pigeon opea var. PRG 176	HYV SEED-PRG-176, Line sowing behind plough, 60cm x30cm, Seed treatment with Rhizobium culture @ 20 gm/kg seed, STBF, Spraying of Hormone Planofix @1ml/4.5lit Sraying of pesticide Prophenophos 50EC @2ml/lit.	33800	120	
7	Power weeder in brinjal	Use of Dry Land Power Weeder4-stroke petrol engine Weeding, hoeing and ridging are possible for the row spacing of 60-90 cm, Capacity: 0.08 ha/h	60000	40	
8	Rearing management of dual purpose poultry	Breed-Rainbow Rooster Timely vaccination Supplementation with growth promoter or Vimeral @ 1 ml/1 lit/10 birds/day	6970/10 birds	280	

D. Other activities

<i>Name of programme</i>	<i>Activities</i>	<i>No. of farmers benefited</i>									<i>No. of other officials (except KVK) attended the programme</i>
		<i>SC</i>		<i>ST</i>		<i>Others</i>		<i>Total</i>			
		<i>M</i>	<i>F</i>	<i>M</i>	<i>F</i>	<i>M</i>	<i>F</i>	<i>M</i>	<i>F</i>	<i>T</i>	
KKA-I	Soil Health Card Distributed										
	NADEP Pit established										
	Farm implements distributed										
	Others, if any										
KKA-II	Soil Health Card Distributed										
	NADEP Pit established										
	Farm implements distributed										
	Others, if any										

Krishi Kalyan Abhiyan- III

<i>No. of villages covered</i>	<i>No. of animal inseminated</i>	<i>No. of farmers benefited</i>									<i>Any other, if any (pl. specify)</i>
		<i>SC</i>		<i>ST</i>		<i>Others</i>		<i>Total</i>			
		<i>M</i>	<i>F</i>	<i>M</i>	<i>F</i>	<i>M</i>	<i>F</i>	<i>M</i>	<i>F</i>	<i>T</i>	

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

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

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

		
<p>Assessment of BPH resistant variety “HASANTA”</p>	<p>Assessment of plant growth promoter “SEEDPRO” against <i>Fusarium</i> wilt of Tomato.</p>	<p>Assessment the performance of different pigeon pea varieties</p>
		
<p>Assessment of Power Pulse Thresher</p>	<p>Assessment on performance of green gram var. IPM 02-14 with different date of sowing</p>	<p>Assessment the performance of Amur carp in composite carp culture</p>

		
<p>Introduction of HYV of Finger millet (Var. Arjun)</p>	<p>Demonstration on Aromatic rice production Var.Nua Acharmati</p>	<p>Assessment of different substrates in vermicompost production</p>
		
<p>Assessment the efficiency of solar drier for value added products</p>	<p>Demonstration of Kharif Onion</p>	<p>Popularization of Tuberose “Arka Prajwal”</p>

		
<p>Demonstration of tractor drawn seed cum fertiliser drill for sowing of finger millet</p>	<p>Supplementary feeding management (Floating feed) in pisciculture</p>	<p>Popularization of Nano Solar Pump for irrigation in Kitchen Garden</p>
		
<p>Cluster Demonstration, PULSE (2018-19) : Line sown Greengram crop at village: Jharmunda, Block: Shohella, Bargarh</p>	<p>Cluster Demonstration, PULSE (2018-19) : Pigeon pea Crop at peak vegetative stage at village: Charpali, Block: Bijepur, Bargarh</p>	<p>Dr. M.P. Nayak, JDEE, OUAT BBSR</p>



Cluster Demonstration OILSEED (2018-19)
Visit of Dr. Arbindo Kumar, DRR, Patna
to Vill: Kharmunda, Block: Bijepur,
Bargarh



Cluster Demonstration OILSEED (2018-19)
Weeding Summer Groundnut at village-
Singhenpali, Block-Bheden, Bargarh



SEED HUB - Infrastructure Development
Visit of Dr. Arvind Kumar, STO, DRD Patna
for Pulse Seed Processing Unit



SEED HUB - Infrastructure Development
Building work under progress



Celebration of Mahila Kisan Divas,



Celebration of Women in Agriculture Day,
At-Khaliapali, Block-Attapura



Celebration of Kisan Diwas



Awareness Campaign on water conservation



Large scale Plantation Prog. & Farmer's Gosthi



Exhibition on 14th National Agril. Science Congress, IARI, Delhi



Visit of Director, ATARI to famers innovator's germ plasma conservation unit



Awareness on CFLD

		
<p>Swachhta Hi Sewa activities (Dt. 22.09.2018 to 02.10.2018)</p>	<p>Inaguration of Animal Disease control prog. by Mr. S. K. Pujari, Hon'ble M.P,Baragarh,GOI</p>	<p>Visit of Mrs. Rita Sahoo, Block Chairman,Attabira</p>
		
<p>Swachhta Hi Sewa activities (Dt. 22.09.2018 to 02.10.2018)</p>	<p>Crop Seminar on Door Darshan</p>	<p>Visitor to KVK – Farmers</p>



Visitor to KVK – Farmers



Visitor to KVK – Farmers



**Village Rally with students of Chhandapali
M.E School under Swachhta Hi Sewa
activities**



**Debate Competition under Swachhta Hi
Sewa activities**



Visit of Research Team of OUAT,BBSR



Azolla Demonstration at KVK

