

**ANNUAL PROGRESS REPORT**  
of the  
**KVK BARGARH**  
in  
**ZONE VII**



**April 2016 to March 2017**



**Krishi Vigyan Kendra, Bargarh**  
**Orissa University of Agriculture & Technology, Bhubaneswar**

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## **Instructions for Filling the Format**

- 1. Do not change/modify/ delete any column of any of the table. However, additional rows can be created, if required.**
- 2. Do not merge columns, rows.**
- 3. Please repeat the name of KVK in each table in the column “Name of KVK”**
- 4. Do not fill the non-numerical values in numeric field**
- 5. Do not repeat the unit while reporting data as it is already mentioned in the heading row**
- 6. Strictly fill the data in desired unit only. If it is reported in other unit, convert it in the desired unit**
- 7. Please mention only standard English names of crops (Do not mention Urd, Arhar, Til, Kulthi, Moong, Bajra, etc.)**
- 8. Additional relevant information may be provided at the end of Format by creating heading “Additional Information”**
- 9. Also read the instructions mentioned just below the table**
- 10. Your suggestions for improvement in the format for your simplicity as well as data compilation may be given at the end of the format**
- 11. Do not press any Enter Key in any of the columns while making entry in the columns of the table. Use only arrow key /Tab key/ mouse pointer while movement from one column/row to another.**
- 12. Grey color cells in summary table need not to be filled.**
- 13. Crop name should be spelled correct and standard English name should be used i.e Cereals, Pulses, Oilseed:- Rice (not use Paddy), Wheat, Barley, Kodo, Kutki, Maize, Jwar, Bajra, Pigeon pea (not use Tur, Arhar, Red gram), Blackgram (not use Urd), Greengram (not use Moong/Moongbean), Chickpea (not use Gram, Chana), Field pea, Horse gram (Kulthi), Lentil, Mustard (not use Rai, Sarsoan), Soybean, Linseed, Groundnut, Sesame (not use Til), Niger (not use Ram Til), Safflower (not use Kusum).  
Vegetable :- Vegetable pea, Bottle guard, Bitter guard, Okra (not use Bhindi or Ladies finger).  
Fruits :- Mango, Guava, Custard apple, Pear etc.  
Spices :- Black Peeper, Turmeric, Ginger, Cardamom etc.**

**REPORTING PERIOD – April 2016 to March 2017**  
**Summary of KVK Annual Report (Quantifiable Achievement) for the year 2016-17**

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
<b>1</b>	<b>On Farm Testing</b>			
	Proposed OFT	23	292	
	On Going OFT	7	57	
	Technologies assessed (Completed OFT)	16	235	
	Technologies refined	0	0	
	On farm trials conducted	23	292	
<b>2</b>	<b>Frontline demonstrations</b>			
	Proposed Frontline demonstrations	24	288	
	On Going Frontline demonstrations	8	107	
	FLDs conducted on crops	12	153	
	Area under crops (ha.)	17.6	153	
	FLD under cluster demonstration	6	240	
	FLD on farm implement and tools	4	28	
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	1	13	
	FLD on Fisheries - Finger lings	0	0	
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)	1	13	
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	3	39	
<b>3</b>	<b>Training programmes</b>	<b>No. of Course</b>	<b>Duration (days)</b>	<b>Participants</b>
	Farmers	42	1	200
	Farm women	11	1	275
	Rural youth	12	2	170
	Extension personnel/ In service	2	1	30
	Vocational trainings	2	4& 5	20
	Sponsored Training	0	0	0
	<b>Total</b>	<b>69</b>	<b>86</b>	<b>1545</b>
		<b>No. of programmes</b>	<b>Participants</b>	
<b>4</b>	<b>Extension Programmes</b>	42	8946	
<b>5</b>	<b>Production of technology inputs etc</b>	<b>Qty</b>	<b>Beneficiaries (nos.)</b>	
	Seed (qt.)	189	-	
	Planting material produced (nos.)	20550	80	
<b>6</b>	<b>Livestock</b>	<b>Qty</b>	<b>Beneficiaries (nos.)</b>	
	Livestock strains ( Nos)	0	0	
	Milk Yield - Cow, Buffelo etc. (in liter)	0	0	
	Fish (Kg.)	0	0	
	Fingerlings (nos.)	0	0	
	Poultry-Eggs (nos.)	0	0	
	Ducks (nos.)	0	0	
	Chicks etc. (nos.)	0	0	

7	<b>Bio Products</b>		<b>Qty</b>	<b>Beneficiaries (nos.)</b>
		Bio Agents -Earth worm (Kg.)	7000 no.	-
		Trichoderma (kg.)	0	0
		Bio Fertilizers- Vermi compost, Rhizobium, PSB , BGA , Mycorriza , Azotobacter , Azospirillum etc. (Kg.)	<b>22.3</b>	35
		Bio Pesticide-Panchgavya, NeemExtract ,Neem oil etc.(lit.)	<b>0</b>	0
8	<b>Any other significant achievement in the Zone</b>		<b>Nos.</b>	<b>Participants/ beneficiaries</b>
		Award (Best KVK award and scientist and farmer's award)	1	1
		Publications ( Res. Paper/ pop. Art./Bulletin,etc.)	-	-
		KVK News letter	2	-
		SAC Meetings conducted	1	25
		Soil sample tested	166	252
		Water sample tested	0	0
		RWH System (Special training and field visit on RWH structure and MIS in KVKs)	0	0
		KVK-KMA (Message and beneficiaries)	63	18100
		Convergence programmes	-	-
		Sponsored programmes	0	0
		KVK Progressive Farmers interaction	3	14
		No. of Technology Week Celebrations	-	-
		Attended HRD activities organized by ZPD	3	3
		Attended HRD activities organized by DES	0	0
		Attended HRD activities by KVK Staff (Refresher /Short course, Training programme etc. )	<b>3</b>	<b>3</b>
9	Current status of Revolving Funds (Amt. in Rs.)			0
10			<b>No. of blocks</b>	<b>No. of villages</b>
	Outreach of KVK in the District		12	1180
11			<b>ICAR</b>	<b>SAU</b> <b>Others</b>
	No. of important visitors to KVK (nos.)		3	4      10
12			<b>Working (Yes/No)</b>	<b>No. of Update</b>
	Status of KVK Website		Yes	36
13			<b>Application received</b>	<b>Application disposed</b>
	Status of RTI (nos.)		0	0
14			<b>Query received</b>	<b>Query dissolved</b>
	Citizen Charter (nos.)		0	0
15			<b>Working (Yes/No)</b>	<b>No. of programme viewed</b>
	E-connectivity		No	-
16			<b>Filled</b>	<b>Vacant</b>
	Staff Position		13	3
17	Workshop/ Seminar/ Conference attended by staff of KVK ( no.s)			3
18	Publication received from ICAR /other organization (nos.)			5
19			<b>Particulars</b>	<b>Organization</b>
	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)		0	0

# GENERAL INFORMATION

## 1.1. Staff Position (as on date)

### Summary of Staff position in KVKs on March, 2017

Name of KVK	Sanctioned Posts	PC (1)		SMS (6)		PA (3)		Admn. (6)		Total	
		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
Bargarh	16	1	0	6	6	3	2	6	5	16	13

Name of KVK	Sanction post	Name of the incumbent	Discipline	Higist degree	Subject of specilization	Pay scale	Present pay	Date of joing	Per./Temp.	Category
Bargarh	Sr. Scientist & Head	VACANT								
Bargarh	Scientist 1	Mrs Susrita Sahu	Home Science	M.Sc.	Food & Nutrition	15600-39100 AGP-6000	19050+6000	22.12.2009	Contractual	OBC
Bargarh	Scientist 2	Mr. Nrusingh Charan Barik	Nematology	M.Sc.	Nematology	15600-39100 AGP-6000	19050+6000	30.04.2010	Contractual	OBC
Bargarh	Scientist 3	Sri. Sanat Kumar Meher	Horticulture	M.Sc.	Horticulture	15600-39100 AGP-6000	19050+6000	30.04.2010	Contractual	OBC
Bargarh	Scientist 4	Miss. Rukeiya Begum	Plant Science	M.Sc.	Seed Science & technology	15600-39100 AGP-6000	15600+6000	29.05.2015	Contractual	Others
Bargarh	Scientist 5	Miss Trupti Bhoi	Agriculture Extension	M.Sc.	Agriculture Extension	15600-39100 AGP-6000	15600+6000	03.11.2015	Contractual	ST
Bargarh	Scientist 6	Mr. Tarak Chandra Panda	Agriculture Engineering	M.Sc.	Process & Food Engineering	15600-39100 AGP-6000	15600+6000	04.12.2015	Contractual	Others
Bargarh	Programme Assistant	Sri Deepankar Jena	Plant Science	M.Sc.	Seed Science & technology	9300-34800 (GP-4200)	9710+4200	06.02.2015	Contractual	Others
Bargarh	Farm Manager	VACANT								
Bargarh	Computer Programmer	Sri. Sanat Kumar Meher	Computer	MCA		9300-34800 (GP-4200)	10560+4200	01.12.2012	Contractual	OBC
Bargarh	Accountant / superintendent	VACANT								
Bargarh	Stenographer	Sri Sumant Kumar Jally		BA		5200-20200 GP-2400	5670 +2400	14.2.2014	Contractual	Others
Bargarh	Driver	Sri. A. Chhanda		Under Matric		PB-1(5200-20200) S-5	6600+1900	23-07-08	Contractual	Others
Bargarh	Driver	Sri. A. Mohaptra		Under Matric		PB-1(5200-20200) S-5	6600+1900	23-07-08	Contractual	others
Bargarh	Supporting staff	Sri. S.L Debata		Under Matric		PB-1(4440-7440)S-5	5580+1300	28-07-08	Contractual	Others
Bargarh	Supporting staff	Sri.O.Khamari		Under Matric		PB-1(4440-7440)S-5	5580+1300	28-07-08	Contractual	Others

## 1.2. DISTRICT PROFILE (detail of geographical area, cultivation, Land, resources, opportunities, irrigation, populations etc.)–

KVK Name	Agro-climatic zone	No. of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Bargarh	West Central Table Land	12	248	1,478,833	74%	89177	203550	0.24 ha

## 1.3. DETAILS OF ADOPTED VILLAGE during the reporting period (Approved by competent Authority in meetings/workshops)

KVK Name	Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
Bargarh	Bandhapalli	2014	Sohela	85	813	303
Bargarh	Garmunda	2015	Attapura	13	452	105
Bargarh	Saradhapali	2016	Bhatli	65	1125	665
Bargarh	Nalichuan	2016	Bhatli	64	626	143
Bargarh	Bandelbahal	2017	Sohela	98	965	170

## 1.4. THRUST AREAS identified by KVK (Approved by competent Authority in meetings/workshop)

KVK Name	THRUST AREA
Bargarh	Crop Diversification
Bargarh	Reclamation of degraded land
Bargarh	Integrated Nutrient Management practices
Bargarh	Integrated Disease and Pest Management Practices
Bargarh	Quality seeds and seedlings production
Bargarh	Income generating activities for rural women/ School dropouts
Bargarh	Value addition in seasonal vegetables
Bargarh	Integrated farming system
Bargarh	Integrated fish farming
Bargarh	Proper health management of domestic animals & birds
Bargarh	Market and production strategies
Bargarh	Recycling of farm wastes for vermicompost
Bargarh	Farm mechanization
Bargarh	Off season vegetable cultivation
Bargarh	Promotion of nutritional garden
Bargarh	Introduction of suitable varieties with improved packages of practices
Bargarh	Effective use of family labour through need based livelihood option
Bargarh	Command Area Development with proper Irrigation management
Bargarh	Agro forestry in waste land, Soil & water conservation

#### 1.4. PROBLEM IDENTIFIED by KVK (Approved by competent Authority in meetings/workshop)

<b>KVK Name</b>	<b>Problem identified</b>	<b>Methods of problem identification</b>	<b>Location Name of Village &amp; Block</b>
Bargarh	Low yield of oil seed and pulses due to soil acidity	Soil Analysis	Padampur, Paikamal, Jharabandha, Sohela , Bhatli
Bargarh	Low family income due to mono cropping in rain fed areas	PRA	Attabira, Bheden, Barpali, Bargarh
Bargarh	Imbalance use of manures and fertilizers in vegetables leading to low productivity	Soil Analysis, PRA	Padampur, Paikamal, Jharabandha, Sohela , Bhatli
Bargarh	Distress sale of fruits and vegetables due to lack of storage facility	PRA	Bijepur, Bhatli, Sohela
Bargarh	Severe infestation of insect pest and disease of vegetables	Field Visit, Diagnostic survey	Attabira, Bheden, Barpali, Bhatli
Bargarh	Underutilization and low productivity of fish ponds	PRA	Attabira
Bargarh	Drudgery of farm women	PRA	Padampur, Paikamal, Jharabandha, Sohela , Bhatli
Bargarh	Low productivity of country birds	PRA	Attabira, BhatliBheden, Barpali, Bargarh
Bargarh	Low yield of rulling paddy var. Swarna(MTU-7029) due to susceptibility to diseases and pest	PRA, Diagnostic Visit	Attabira, Bheden, Barpali, Bargarh
Bargarh	Low productivity of animal resources	PRA	Padampur, Paikamal, Jharabandha, Sohela , Bhatli
Bargarh	Collar rot in groundnut	FLD, Diagnostic Visit, Farmer Meeting	Padampur, Paikamal, Jharabandha, Bhatli
Bargarh	Underutilization of paddy straw	PRA	Attabira, Bheden, Barpali, Bhatli
Bargarh	Lack of suitable variety for Kharifgreengram	Farmers meeting, diagnostic visit	Padampur, Paikamal, Gaisialat, Sohela



## 2. OnFarmTesting (OFT)

### Note-

- Thematic area should be spelled correct and follow standard pattern i.e. Integrated Nutrient Management in place of INM or Inte. Nutrient Mngt. Etc.
- Crop name should be spelled correct and standard English name should be used i.e Chick pea in place of gram/chana , Paddy in place of Rice/chawal , brinjal in place of egg plant/bhata/baigan etc.
- Don't press enter key to navigate among column use arrow or tab key
- don't add space before or after statement within the table cell
- Kindly mention realistic estimated yield of your crop under trail.
- If crop has been not yet harvested, mark it \* on that

### 2.1 Information about OFT

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment / Refinement)	Thematic Area	Crop/enterprise	Farmin g Situations	No. of trials	Results (q/ha)			Net Returns (Rs./ha)			Recommendations
										FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	T <sub>3</sub>	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	T <sub>3</sub>	
Bargarh	2016-17	Kharif	High planting material cost	Assessment of transplanting of Turmeric cv. Suroma	Assessment	HOS	Turmeric	Rainfed Upland	13	156	134	162	88700	77800	114400	Cutting of sprouted rhizomes and planting in raised bed & after germination transplanting 14 days sprouted rhizomes in the main field is recommended.
Bargarh	2016-17	Kharif	High incidence of Disease reduces the field and quality of the product	Assessment of Phomopsis Resistant Brinjal Hybrid "Swarna Shakti"	Assessment	Varietal Evaluation	Brinjal	Irrigated Upland	5	396	412	430	105000	114850	124700	Swarnasampad is resistant to Wilting and suitable for Bargarh Condition
Bargarh	2016-17	Rabi	High crop weed competition, resulting high yield loss.	Assessment of Oxyflurofen + Quizalo-Fop-Ethyl herbicide in onion	Assessment	IWM	Onion	Irrigated medium land	13	166	180	192	40500	49500	54500	Application of Oxyflurofen 23.5% EC @0.15 kg ai/ha within 3 days of Transplanting and manual weeding at 40-45 DAT gives better result

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment / Refinement)	Thematic Area	Crop/enterprise	Farmin g Situations	No. of trials	Results (q/ha)			Net Returns (Rs./ha)			Recommendations
										FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	T <sub>3</sub>	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	T <sub>3</sub>	
Bargar h	2016-17	Rabi	Only use of chemical fertilizer casuse loss of quality	Assesemet of Biofertilizer application in Bitter Gourd	Assessment	INM	Bittergourd	Irrigated Medium land	5	Cont.	Con t.	Con t.	Cont.	Con t.	Con t.	Cont.
Bargar h	2016	Kharif	Low yield of paddy and less nos. of tillering due to inefficient utilization of water and improper tillage practices resulting high water requirement	Assessment of paddy yield by adopting irrigation water management practices	Assessment	Resource conservat ion technology	Paddy	Irrigate d medium land	13	36.6	38.2	40.4	1227 0	146 90	167 80	Puddling by cage wheel & cultivator, levelling and cyclic submergence at 10days interval in paddy field throughout the crop period should done
Bargar h	2016	Kharif	Low yield and high water requirement in furrow irrigation	Assessment of Drip Irrigation system in Banana	Assessment	Micro Irrigation	Banana	Irrigate d up land	13	203.0	212. 0	221	6000 0	670 00	775 00	Online drip system with 4lph dripper @ 3 drippers per plant gives better result.
Bargar h	2016-17	Rabi	Low yield due to delayed sowing in traditional method of sowing green gram in available moisture after paddy harvesting and less net return due to high cost of cultivation, more labourand time consumption	Assessment of tractor drawn zero till drill for sowing green gram in rice green gram cropping system	Assessment	Farm machineri es	Green Gram	Irrigate d medium land	08	Cont.	Con t.	Con t.	Cont.	Con t.	Con t.	Cont.

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment / Refinement)	Thematic Area	Crop/ enterprise	Farmin g Situations	No. of trials	Results (q/ha)			Net Returns (Rs./ha)			Recommendations
										FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	T <sub>3</sub>	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	T <sub>3</sub>	
Bargar h	2016-17	Rabi	Low net return in traditional method of sowing of groundnut due to high cost of cultivation, more labour and time requirement	Assessment of the performance of bullock drawn plough planter for sowing groundnut	Assessment	Farm machineri es	G Nut	Irrigate d medium land	05	Cont.	Con t.	Con t.	Cont.	Con t.	Con t.	Cont.
Bargar h	2016-17	Round the year	Poor pace of dissemination through traditional channels	Assessment of Whats App Technology for Strengthening Agricultural Extension System	Assessment	ICT	-	-	40	-	-	-	18050	28069	47010	Formation of Whats app group for strengthening agricultural extension system
Bargar h	2016-17	Round the year	Low selling price of farmer produce	Assessment of market-led approach for income generating activities by SHG	Assessment	Income generatio n	-	-	13	Cont.	Con t.	Con t.	Cont.	Con t.	Con t.	Cont.
Bargar h	2016-17	Round the year	Due to injudicious utilization of fertilizer application without soil testing	Assessment on adoption of Soil Health Card based fertilizer application	Assessment	Soil Health Managem ent	-	-	13	Cont.	Con t.	Con t.	Cont.	Con t.	Con t.	Cont.

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment / Refinement)	Thematic Area	Crop/enterprise	Farmin g Situations	No. of trials	Results (q/ha)			Net Returns (Rs./ha)			Recommendations
										FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	T <sub>3</sub>	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	T <sub>3</sub>	
Bargarh	2016-17	kharif	Low yield due to high weed competition in kharif rice	Assessment of Efficacy of herbicide Bispyribac sodium on transplanted kharif rice	Assessment	IWM	Paddy	Irrigated Medium land	13	41.22	42.44	44.43	1537.4	17178.9	20563.8	Application of Pendimethalin @750 g a.i/ha as pre-emergence & Bispyribac sodium @ 25 g ai/ha as post emergence within 25 DAT
Bargarh	2016-17	Kharif	Lack of quality seeds and more disease & insect pest infestation resulting in low yield	Assessment of storage of Groundnut with Desiccant	Assessment	Seed Storage	Groundnut	Irrigated Upland	11	Cont	Cont	Cont	Cont	Cont	Cont	Cont
Bargarh	2016-17	Rabi	Uneven plant density, unequal growth of green gram resulting in low yield	Assessment of seed priming methods for early growth and nodulation in green gram	Assessment	Seed priming	Green Gram	Irrigated Upland	10	3.7	4.01	4.31	5123.07	5832.7	6704.4	Osmoprining with Potassium Chloride (10mMoles/litre) for 12 hours
Bargarh	2016-17	Rabi	Low yield due to lack of INM, IPM,IWM	Assessment of System of Mustard Intensification (SMI) in Bargarh district	Assessment	ICM	Mustard	Irrigated Medium Land	13	4.7	5.6	7.1	2053.7	2861.7	4128	Transplanting of Mustard of 8 -12 days old seedlings

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment / Refinement)	Thematic Area	Crop/ enterprise	Farmin g Situations	No. of trials	Results (q/ha)			Net Returns (Rs./ha)			Recommendations
										FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	T <sub>3</sub>	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	T <sub>3</sub>	
Bargarh	2016-17	Kharif	Severe yield loss of cotton due to attack of mealy bug at peak vegetative stage, Low yield i.e. 9q/ha (450 ha)	Assessment of Bio chemical control measures against mealy bug ( <i>Phenacoccus solenopsis</i> ) infesting cotton	Assessment	IPM	Cotton	Rainfed upland	13	12.3	15.6	16.5	9200	9600	10300	Spraying of NSKE @ 5 ml/lt. or 15gm with 5ml of fish oil /lt of water
Bargarh	2016-17	Kharif	Poor yield(32q/ha) paddy due to attack of blast disease in rain-fed areas(3000ha)	Assessment of Bio fungi toxicants against blast fungi	Assessment	IDM	Paddy	Rainfed upland	13	3.61	4.38	4.8	8030	8700	9550	Two sprays of Tulsi leaf extract (5 kg boiled with 10 lt. of Water + 200 gm detergents to 200 lt. of water) along with application nitrogen in 3 splits
Bargarh	2016-17	Rabi	Poor yield (180q/ha) & loss of tuber quality of potato due to late blight disease in 400ha	Assessment of new generation fungicide against late blight disease of potato	Assessment	IDM	Potato	Irrigated upland	13	186	207	214	75000	9400	97300	Spraying of Famoxadone 16.6% + Cymoxanil 22.1 % SC @ 1ml/lt., 2 <sup>nd</sup> spray after 27 days
Bargarh	2016-17	Rabi	Poor yield (40MT/ha) & loss of cane quality due to wooly aphid in an area of 200ha	Assessment of chemical method of controlling wooly aphid ( <i>Ceratovacuna alanigera</i> ) in sugarcane	Assessment	IPM	Sugarcane	Irrigated medium land	13	Cont	Cont	Cont	Cont	Cont	Cont	Cont

## 2.2 Economic Performance

KVK name	OFT Title	Parameters			Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		Name and unit of Parameter	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP(T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )
Barg arh	Assessment of transplanting of Turmeric cv. Suroma	Yield, (q/ha), B:C ratio	156	134	98500	83000	80000	187200	160800	194400	88700	77800	114400	1.9	1.93	2.42
Barg arh	Assessment of Phomopsis Resistant Brinjal Hybrid "Swarna Shakti"	Yield, (q/ha), B:C ratio	396	412	92500	91150	90300	198000	206000	215000	105000	114850	124700	2.14	2.26	2.38
Barg arh	Assessment of Oxyflurofen + Quizalo-Fop-Ethyl herbicide in onion	Yield, (q/ha), B:C ratio	166	180	42500	40500	41500	40500	49500	54500	40500	49500	54000	1.95	2.22	2.31
Barg arh	Assesemet of Biofertilizer application in Bitter Gourd	Yield, (q/ha), B:C ratio	Cont	Cont	Cont	Cont	Cont	Cont	Cont	Cont	Cont	Cont	Cont	Co nt	Co nt	Cont
Barg arh	Assessment of paddy yield by adopting irrigation water management practices	Yield, (q/ha), B:C ratio	36.6	43.2	40800	40700	41800	53070	55390	58580	12270	14690	16780	1.3	1.36	1.40
Barg arh	Assessment of Drip Irrigation system in Banana	Yield, (q/ha), B:C ratio	203.00	221.0	82000	80900	77200	142100	148400	154700	60000	67500	77500	1.73	1.83	2.0
Barg arh	Assessment of tractor drawn zero till drill for sowing green gram in rice green gram cropping system	Yield, (q/ha), B:C ratio	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	-	-	-
Barg arh	Assessment of the performance of bullock drawn plough planter for sowing groundnut	Yield, (q/ha), B:C ratio	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	-	-	-
Barg arh	Assessment of Efficacy of herbicide Bispyribac sodium on transplanted kharif rice	Yield, (q/ha), B:C ratio	41.22	42.44	45218.9	45207.82	44704.10	60593.4	62386.8	65268	15374.4	17178.9	20563.8	1.34	1.38	1.46

KVK name	OFT Title	Parameters			Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		Name and unit of Parameter	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP(T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )
Barg arh	Assessment of storage of Groundnut with Desiccant	Yield, (q/ha), B:C ratio	Cont	Cont	Cont	Cont	Cont	Cont	Cont	Cont	Cont	Cont	Cont	Co nt	Co nt	Cont
Barg arh	Assessment of seed priming methods for early growth and nodulation in green gram	Yield, (q/ha), B:C ratio	3.7	4.01	17076.9	18227	19155	22200	24060	25860	5123.07	5832.7	6704.4	1.30	1.32	1.35
Barg arh	Assessment of System of Mustard Intensification (SMI) in Bargarh district	Yield, (q/ha), B:C ratio	5.5	7.6	16021	21576.2	25471.0	18425	2546	30820	2404	3884	5349	1.15	1.18	1.21
Barg arh	Assessment of Bio chemical control measures against mealy bug ( <i>Phenacoccusolenopsis</i> ) infesting cotton	Yield, (q/ha), B:C ratio	12.3	16.5	45300	44300	47200	60300	74900	80400	15000	30600	33200	1.33	1.69	1.70
Barg arh	Assessment of Bio fungi toxicants against blast fungi	Yield, (q/ha), B:C ratio	3.61	4.8	28500	28000	29300	52200	66700	69600	23700	38700	40300	1.8	2.3	2.29
Barg arh	Assessment of new generation fungicide against late blight disease of potato	Yield, (q/ha), B:C ratio	186	214	80600	84600	87200	186000	197000	214000	105000	112000	126000	2.3	2.3	2.4
Barg arh	Assessment of chemical method of controlling woolly aphid ( <i>Ceratovacunalanigera</i> ) in sugarcane	Yield, (q/ha), B:C ratio	Cont	cont	cont	cont	cont	cont	cont	cont	cont	cont	126000	cont	cont	cont
Barg arh	Assessment of Whats App Technology for Strengthening Agricultural Extension System	Return (Rs./ha)	-	-	28010	32991	39965	46060	61060	93033	18050	28069	47010	1.6	1.9	2.3
Barg arh	Assessment of market-led approach for income generating activities by SHG	Yield, (q/ha), B:C ratio	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Co nt.	Co nt.	Cont.
Barg arh	Assessment on adoption of Soil Health Card based fertilizer application	Yield, (q/ha), B:C ratio	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Co nt.	Co nt.	Cont.

### 2.3 Information about Home Science OFT: (For All Thematic Area)

KVK Name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment / Refinement)	Thematic Area	Details of Technology Selected for Assessment	Characteristics of Technology / Variety / Product / Enterprise	Farming / Enterprise Situation	No. of trials	Recommendations
Bargarh	2016-17	Kharif	Low income due to high cost of milled puff rice & poor availability of milled puff rice	Assessment on suitability of selected rice varieties for puffed rice	Assessment	Income generation	Preparation of puffed rice from Pratikshya var. of rice	Paddy	Kharif, Homestead	13	Preparation of puffed rice from Pratikshya var. of rice
Bargarh	2016-17	Kharif	Low income due to comparatively low egg production from Local poultry & Banaraja poultry in backyard	Assessment of Pallishree breed of Poultry	Assessment	Income generation	Rearing management of Pallishreebreed	Palishree breed	Kharif, Homestead	13	Rearing management of Pallishreebreed
Bargarh	2016-17	Rabi	Poor economic status of farm women from house hold activities during lean period and The consumer preference for oyster mushroom is less due to its hardy structure	Assessment of <i>HypsizygousUlmariusmu</i> shroom	Assessment	Income generation	Cultivation of <i>HypsizygousUlmarius</i> (Blue colour)	<i>HypsizygousUlmarius</i> (Blue colour)	Rabi, Homestead	13	Cultivation of <i>HypsizygousUlma</i> rius (Blue colour)
Bargarh	2016-17	Rabi	Poor growth rate of seedlings due to raising of seedlings on flat bed	Assessment of improved nursery management for income generation of farm women	Assessment	Income generation	Raising of seedlings on protrays	Vegetable seedlings	Rabi, Homestead	13	Raising of seedlings on protrays

### 2.4 (A) Economic Performance Home Science OFT: (For Drudgery Reduction)

KVK name	OFT Title	Performance Indicator / Parameter													
		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Cardiac Cost of Work		% Saving of cardiac Cost	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
Bargarh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

### 2.4 (B) Economic Performance Home Science OFT: (For Income Generation)

KVK name	OFT Title	Performance Indicator / Parameter											
		Production per unit		Cost of input		Incremental income		Yield(Kg/ha)		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Bargarh	Assessment of poultry bird "Pallishree"	Live body weight (10 birds/ 3 months) - 7 kg	T2-18 kg T3- 22 kg	580	T2- 1150 T3- 1150	700	T2- 1620 T3- 1980	Live body weight / bird/ 3 months- 0.7 kg	T2-1.8 kg T3- 2.2 kg	120	T2- 470 T3- 830	T2- 350 T3- 710	1.70



KVK name	OFT Title	Performance Indicator / Parameter											
		Production per unit		Cost of input		Incremental income		Yield(Kg/ha)		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Bargarh	Assessment of Hypsizygousulmarious of mushroom	200 kg/ 100 beds	T2- 210 kg/ 100 beds T3- 240 kg/ 100beds	5500/ 100 beds	T2- 5500 T3- 5500	9000/ 100 beds	T2- 9450 T3- 10800	2 kg /bed	T2- 2.1 kg/bed T3- 2.4 kg/bed	3300	T2- 3750 T3- 5300	T2- 450 T3- 2000	1.9
Bargarh	Assessment of improved nursery management for income generation of farm women	1480 no seedling/ bed	T2- 1680 T3- 1920	1100	T2-1150 T3- 1250	1480	T2- 1680 T3- 1920	1480 no seedling/ bed	T2- 1680 T3- 1920	330	T2- 530 T3- 670	T2- 200 T3- 340	1.53

#### 2.4 (C) Economic Performance Home Science OFT: (For value addition)

KVK name	OFT Title	Performance Indicator / Parameter													
		Composition of product		Input used		outcome (Kg)		Cost of input		Incremental income		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Bargarh	Assessment on suitability of selected rice varieties for puffed rice	Paddy-100kg	T2- 100 kg T3- 100 kg	100 kg	T2- 100 kg T3- 100 kg	84%	T2- 88% T3- 92%	1850	T2-1850 T3-1850	2285	T2- 2285 T3- 2836	338	T2- 435 T3- 986	T2- 97 T3- 648	1.53

#### 2.4(D) Economic Performance Home Science OFT :( For Nutritional security)

KVK name	OFT Title	Performance Indicator / Parameter				Nutrient Intake (Unit)								Anthropometric measurements					
		Name of vegetable/Fruit/Product		Per capita Consumption gm/ day		Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		Increase in Weight (Kg)		Increase in Height (cm )		Increase in BMI (%)	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
Bargarh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

## 2.5 Feedback from KVK to Research System

Name of KVK	Feedback
Bargarh	Development of Greengram, black gram variety suitable to hot humid climate of Bargarh district
Bargarh	Ratoon technology of at least 10 years for pointed gourd
Bargarh	Assessment of productivity of cross bred from rainbow rooster and Palishree
Bargarh	Evaluation of different technologies for eradication BPH.

## 3. Achievements of Frontline Demonstrations (FLD)

### 3.1. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated and popularized during previous years and recommended for large scale adoption in the district

KVK Name	Crop/ Enterprise	Thematic Area	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha

#### Note-

- Thematic area should be spelled correct and follow standard pattern i.e. Integrated Nutrient Management in place of INM or Inte. Nutrient Mngt. Etc.
- \*Crop name should be spelled correct and standard English name should be i.e Chick pea in place of gram, Paddy in place of Rice , brinjal in place of eggplant etc.
- \*Don't press enter key to navigate among col use arrow or tab key
- \*don't add space before or after statement within the table cell
- Kindly mention realistic estimated yield of your crop under Demonstration.
- If crop has been not yet harvested, mark it \*on that

### 3.2 Details of FLDs implemented

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/ Technology/ Enterprises	Crop- Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T <sub>1</sub> )	RP (T <sub>2</sub> )		SC	ST	Others	General	Total
Bargarh	2016-17	Kharif	Varietal Evaluation	Popularization wilt resistant Tomato Hybrid SwarnaSampad	Tomato	SwarnaSampad	1	380	430	13.1	0	4	9	0	13
Bargarh	2016-17	Late Kharif	Varietal Evaluation	Popularization High yielding variety of pointed gourd "SWARNA ALOUKIK	Pointed Gourd	SwarnaAloukik	0.2	Cont.	Cont.	Cont.	0	0	13	0	13
Bargarh	2016-17	Rabi	Varietal Evaluation	Popularization of Broccoli Cultivation	Broccoli	Pusa KTS-1	0.6	230 (Cabbage)	46		0	2	11	0	13
Bargarh	2016-17	Rabi	Varietal Evaluation	Popularization of Papaya Variety Red Lady	Papaya	Red Lady	0.3	Cont.	Cont.	Cont.	2	2	6	0	10
Bargarh	2016-17	Kharif	Farm Machineries	Popularization of Tractor operated Rotavator for Puddling	Paddy		5.25	36.2	43.6	20.40	0	1	11	1	13
Bargarh	2016-17	Rabi	Farm Machineries	Popularization of Self Propelled Rice Transplanter	Paddy		2.5	Cont.	Cont.	Cont.	0	0	4	1	5
Bargarh	2016-17	Rabi	Farm Machineries	Demonstration on Tractor drawn Seed cum Fertilizer Drill for Sowing Groundnut	G.Nut		2.5	Cont.	Cont.	Cont.	0	1	2	2	5
Bargarh	2016-17	Rabi	Farm Machineries	Demonstration on Wheel Cycle Weeder for Intercultural Operation in Groundnut	G. Nut		2.5	Cont.	Cont.	Cont.	0	0	2	3	5
Bargarh	2016-17	Round the year	Group approach	Strengthening Farmers' Club for technology dissemination	-		-	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	40
Bargarh	2016-17	Round the year	Impact assessment	Adoption, dynamics and impact of transferred technology on Vitamin-mineral mixture supplement for dairy animals	Dairy			720 lit/ cow/ 4 months	890 lit/ cow/4 months	24%	0	4	9	0	13
Bargarh	2016-17	Round the year	Technology expansion	Spreading of technology through para extension workers (SRI Paddy)	Paddy			45	53.4	19%	0	1	10	2	13

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/ Technology/ Enterprises	Crop- Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T <sub>1</sub> )	RP (T <sub>2</sub> )		SC	ST	Others	General	Total
Bargarh	2016-17	Round the year	Income generation	Strengthening income generation of SHG through mushroom cultivation	Mushroom			Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	13
Bargarh	2016-17	Kharif	Popularization IDM practices against blast diseases of Kharif paddy	Popularization IDM practices against blast diseases of Kharif paddy	Paddy	MTU-7029	1	46.4	48	3.5	1	0	6	6	13
Bargarh	2016-17	Kharif	Integrated Nematode Management	Popularization Integrated Nematode Management practices against black rot disease affecting Banana	Banana	G-9	1	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	13
Bargarh	2016-17	Rabi	Integrated pest management	Management of BPH of Rabi paddy by using new generation pesticides	Paddy	MTU1001	1	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	13
Bargarh	2016-17	Rabi	Integrated pest & disease management	Popularization of Ecological Engineering for management of insect pest and diseases of cabbage	Cabbage	Pusa drum head	1	130	156	20	1	2	9	1	13
Bargarh	2016-17	Kharif	Varietal Evaluation	Popularization of improved variety of paddy CR Borodhan-2	paddy	CR Borodhan2	3.3	42.01	37.41	12.29	-	2	11	-	13
Bargarh	2016-17	Kharif	IWM	Weed management of groundnut by pre-emergence herbicide oxyfluorfen 23.5EC	Groundnut	TPG-41	5.2	17.2	15.6	10.2	-	-	13	-	13
Bargarh	2016-17	Rabi	INM	Demonstration of micronutrients application in Green gram	Green Gran	IPM02-14 TARM-1	1	5.4	4.5	20	1	1	10	1	13
Bargarh	2016-17	Rabi	Varietal Evaluation	Performance of improved variety of Sesamum Prachi	Sesame	Prachi	2	5.2	4.1	26.8	2	1	10	-	13

### 3.3 Economic Impact of FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters			Cost of cultivation (Rs/ha)		Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )
Baragarh	Popularization wilt resistant Tomato Hybrid SwarnaSampad	Tomato	Yield(q/ha)	380	430	60000	56000	114000	129000	54000	73000	1.9	2.3
Baragarh	Popularization High yielding variety of pointed gourd "SWARNA ALOUKIK	Pointed Gourd	Yield(q/ha)	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.
Baragarh	Popularization of Broccoli Cultivation	Broccoli	Yield(q/ha)	230	46	60000	62000	92000	138000	32000	76000	1.53	2.22
Baragarh	Popularization of Papaya Variety Red Lady	Papaya	Yield(q/ha)	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.
Baragarh	Popularization of Tractor operated Rotavator for Puddling	Paddy	Yield(q/ha)	36.4	43.2	28810	27310	53375	54250	24565	26940	1.85	1.99
Baragarh	Popularization of Self Propelled Rice Transplanter	Paddy	Yield(q/ha)	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.
Baragarh	Demonstration on Tractor drawn Seed cum Fertilizer Drill for Sowing Groundnut	G.Nut	Yield(q/ha)	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.
Baragarh	Demonstration on Wheel Cycle Weeder for Intercultural Operation in Groundnut	G. Nut	Yield(q/ha)	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.
Bargarh	Strengthening Farmers' Club for technology dissemination	-	% technology adopted, increase in income (Rs.)	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters			Cost of cultivation (Rs/ha)		Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )
Bargarh	Adoption, dynamics and impact of transferred technology on Vitamin-mineral mixture supplement for dairy animals	Dairy	Milk yield/lit/4 month	720	890	11100	11700	18720	23140	7620	11440	0.6	0.9
Bargarh	Spreading of technology through para extension workers (SRI Paddy)	Paddy	Yield q/ha	45	53.4	44410	49800	65250	77430	20840	27800	1.46	1.56
Bargarh	Strengthening income generation of SHG through mushroom cultivation	Mushroom	Yield(kg/bed)	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.
Bargarh	Popularization IDM practices against blast diseases of Kharif paddy	Paddy	Yield q/ha	46.4	48	35200	36100	67570	69600	32370	33500	1.9	1.92
Bargarh	Popularization Integrated Nematode Management practices against black rot disease affecting Banana	Banana	Yield q/ha	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.
Bargarh	Management of BPH of Rabi paddy by using new generation pesticides	Paddy	Yield q/ha	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.	Cont.
Bargarh	Popularization of Ecological Engineering for management of insect pest and diseases of cabbage	Cabbage	Yield q/ha	130	156	56300	60200	130000	156000	69800	99700	2.1	2.7

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters			Cost of cultivation (Rs/ha)		Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )
Bargarh	Popularization of improved variety of paddy CR Borodhan-2	paddy	Yield(q/ha)	37.41	42.01	43994.16	44749.7	54992.7	61754.7	10998.54	17004.9	1.25	1.38
Bargarh	Weed management of groundnut by pre-emergence herbicide oxyfluorfen 23.5EC	Groundnut	Yield(q/ha)	15.6	17.2	41665.8	44258.5	658323	72584	24166.17	28325.46	1.58	1.64
Bargarh	Demonstration of micronutrients application in green gram	Green Gram	Yield(q/ha)	4.5	5.4	18120.8	20000	27000	32400	8879	12400	1.49	1.62
Bargarh	Performance of improved variety of Sesamum Prachi	sesamum	Yield(q/ha)	4.1	5.2	13398	16149.0	20500	26000	7102	9851	1.53	1.61

### 3.4 Information about Home Science FLDs- (For All Thematic Area)

KVK name	Year	Season	Thematic Area	Problem Identified	Technology to be Demonstrated as Solution to the Identified Problem	Crop/ Enterprise (In which crop Enterprise or Farming Activity)	Name of Variety/ Technology /Enterprises	Farming Situation	Proposed area (ha)	No. of Beneficiaries
Bargarh	2016-17	Kharif	Drudgery reduction	Low efficiency (2 kg/Hr.) and high degree drudgery of farm women during decorticating of mahua seeds	Decortication of mahua seed done by mahua seed decorticator having weight 14-15 kg. made up of mild steel & wooden bar		Mahua seed decorticator			13
Bargarh	2016-17	Kharif	Income generation	Low Yield(90qtl/ha) from local variety of seasonal marigold cultivation at an area of 20ha	Seedling treatment with Bavistin@2gm/lit, spacing at 45X30 cm, need based plant protection measures		Ceracole var. of marigold			13
Bargarh	2016-17	Rabi	Drudgery reduction	Low efficiency(2.5kg/hr) & high drudgery of farm women during stripping of groundnut from the production area of 2540ha	Stripping of groundnut done by groundnut stripper, overall dimension in mm 690X690X200		Groundnut stripper			13

KVK name	Year	Season	Thematic Area	Problem Identified	Technology to be Demonstrated as Solution to the Identified Problem	Crop/ Enterprise (In which crop Enterprise or Farming Activity)	Name of Variety/ Technology /Enterprises	Farming Situation	Proposed area (ha)	No. of Beneficiaries
Bargarh	2016-17	Rabi	Post Harvest Management	Post-harvest losses( up to 18%) caused by unscientific storage, insects, rodents, microorganisms etc.	The pro-super bag makes the principle of hermetic storage available to farmers and processors at low cost, extend the germination life of seed for planting from 6 to 12 months		Green gram var. TARM-1			13

### 3.5 (A) Economic Performance Home Science FLD: (For Drudgery Reduction)

KVK name	OFT Title	Performance Indicator / Parameter													
		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Cardiac Cost of Work		% Saving of cardiac Cost	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
Bargarh	Demonstration on mahua seed decorticator	2.4 kg/hr.	9.7 kg/hr.	278.8	57.19	125	113	-	79.5	-	304	1225	228	-	81
Bargarh	Demonstration on groundnut stripper	2.9 kg/hr.	10.4 kg/hr.	197.89	51.5	115	111	-	73	-	258	765	190	-	75

### 3.5 (B) Economic Performance Home Science FLD: (For Income Generation)

KVK name	OFT Title	Performance Indicator / Parameter												
		Production per unit		Cost of input		Incremental income		Yield(Kg/ha)		Net Return		Saving in Rs	BC ratio	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2			
Bargarh	Popularization of caracole var. of marigold cultivation	-	-	171000	181000	280000	274000	104000	13700	37000	94000	57000	1.52	

### 3.5 (C) Economic Performance Home Science FLD: (For value addition)

KVK name	OFT Title	Performance Indicator / Parameter													
		Composition of product		Input used		outcome (Kg)		Cost of input		Incremental income		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Bargarh	Demonstration on storing of green gram in the grain pro super bag	Green gram	Green gram	25 kg	25 kg	20.5	24.5	1510	1580	1845	2205	335	625	290	1.39



### 3.5 (D) Economic Performance Home Science FLD : ( For Nutritional security)

KVK name	OFT Title	Performance Indicator / Parameter				Nutrient Intake (Unit)								Anthropometric measurements					
		Name of vegetable/Fruit/Product		Per capita Consumption gm/day		Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		Increase in Weight (Kg)		Increase in Height (cm )		Increase in BMI (%)	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
Bargarh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

### 3.6 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Bargarh	Paddy	FLD on Popularization of CR-Borodhan-2	1	40	

### 3.7 Details of FLD on crop hybrids.

S.No.	Name of the KVK	Name of the Crop	Name of the Hybrids	Source of Hybrid (Institute/Firm)	No. of farmers	Area in ha.
1	Bargarh	Tomato	Swarna Sampad	ICAR, RCER, Planddo, Ranchi	13	1 ha

## 4. Feedback System

### 4.1. Feedback of the Farmers to KVK

Name of KVK	Feedback			
	Technology appropriations	Methodology used	Benefits of OFT/FLD	Future Adoption
Bargarh	Spraying of Pymetrozine 50 WG(Pyridine Azomethines) @ 80 gm/ac. twice at the interval of 10 days for management of BPH Rabi Paddy	Field visit	Improves crop growth and enhances tuber production.	9 villages 28 farmers in an area of 10 ha
Bargarh	Adoption, dynamics and impact of transferred technology on Vitamin-mineral mixture supplement for dairy animals	Field visit, Group discussion	Increase in milk yield	Spread in 8 villages by 37 farmers
Bargarh	Popularization of tractor operated rotavator for puddling	Method demonstration	Suitable where less man power is available and causes more yield	Nearby 3 villages involving 25 farmers in an area of 15 ha
Bargarh	Planting the seedling at 2.5 m X 2 m with 250:250:500g/Plant Of Papaya seedling	Training	Working output is more and drudgery is reduced.	16 farm women of 3 villages are interested
Bargarh	Decortication of mahua seeds done by mahua seed decorticator having weight 14-15 kg made up of mild steel and wooden bar	Method demonstration, Training	Time money and labour can be saved by using this equipment	25 farm women of 5 villages are interested for this

Name of KVK	Feedback			
	Technology appropriations	Methodology used	Benefits of OFT/FLD	Future Adoption
Bargarh	Var. Ceracole, Seedling treatment with Bavistin@2gm/lit, spacing at 45X30 cm	Training	It can be grown throughout the year	35 farm women of 4 villages are interested for this
Bargarh	Cutting of rice straw into 2-3 inches size, sterilization of straw in hot water, scientific method of bed preparation in polythene. Harvesting, grading and packaging practices	Training, G.D. Method demonstration.	It can replace paddy straw mushroom in winter and more testier than oyster	35 farm women of 4 villages are interested for this
Bargarh	Stripping of groundnut done by groundnut stripper, overall dimension in mm 690X690X200	Method demonstration, Training	Time money and labour can be saved by using this equipment	50 farmers 5 villages interested for this

#### 4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested
Name of KVK	Feedback
Bargarh	Development of Green gram, black gram variety suitable to hot humid climate of Bargarh district
Bargarh	Ratoon technology of at least 10 years for pointed gourd
Bargarh	Assessment of productivity of cross bred from rainbow rooster and Palishree
Bargarh	Evaluation of different technologies for eradication BPH.

#### 4. Documentation of the need assessment conducted by the KVK for the training programme

Name of KVK	Category of the training	Methods of need assessment	Date and place	No. of participants involved
Bargarh	Farmer & farmwomen	PRA, group meeting	02.03.2015, 03.03.2017, 06.03.2017,23.03.2017 Diptipur, Nalichuan, Dechuan, Baulsingha, Ambbhona, Sohela	1325
Bargarh	Rural youth	Pallisabha, Questionaries	02.03.2017, 21.03.2017 Kendubhata, Dunguri, Manapada	150
Bargarh	Inservice	Workshop, strategy meeting	09.12.2016, 25.03.2017	30

## Abbreviation Used

FW	(A) Farmers & Farm Women
RY	(B) Rural Youths
IS	(C) Extension Personnel
ONC	On Campus Training Programme
OFC	Off Campus Training Programme
M	Male
F	Female
T	Total
<b>Thematic Areas for Training</b>	
CRP	Crop Production
HOV	Horticulture – Vegetable Crops
HOF	Horticulture-Fruits
HOO	Horticulture- Ornamental Plants
HOP	Horticulture- Plantation crops
HOT	Horticulture- Tuber crops
HOS	Horticulture- Spices
HOM	Horticulture- Medicinal and Aromatic Plants
SFM	Soil Health and Fertility Management
LPM	Livestock Production and Management
WOE	Home Science/Women empowerment
AEG	Agril. Engineering
PLP	Plant Protection
FIS	Fisheries
PIS	Production of Inputs at site
CBD	CapacityBuilding and Group Dynamics
AGF	Agro-forestry
OTH	Others
RYH	Rural Youth
EXP	Extension Personnel

## 5. TRAINING PROGRAMMES

1. Training programmes should be strictly covered under above mentioned thematic areas only,
2. For category, training type and thematic area, mention code/abbreviations only

**Table 5.1. Details of Training programmes conducted by the KVKs**

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
Baragarh	F/FW	OFF	HOV	Nursery raising of Vegetable	1	1	0	0	0	0	10	7	6	2
Baragarh	F/FW	OFF	HOS	Nursery raising and cultivation of Zinger	1	1	0	0	0	0	11	0	14	0
Baragarh	F/FW	OFF	HOV	Cultivation practices of Kharif Brinjal, Tomato	1	1	0	0	0	0	7	7	4	7
Baragarh	RY	ON	HOF	Training on Mango Grafting	1	2	0	0	0	0	1	0	14	0
Baragarh	F/FW	OFF	HOF	Care and Maintenance of Garden in Rainy season	1	1	0	0	1	0	11	0	13	0
Baragarh	F/FW	OFF	HOS	Improved Onion cultivation	1	1	0	0	0	0	9	0	16	0
Baragarh	F/FW	OFF	HOV	Use of micronutrient in Cole crop	1	1	0	0	2	0	3	0	20	0
Baragarh	F/FW	OFF	HOV	INM in potato	1	1	0	0	2	0	8	13	1	1
Baragarh	F/FW	OFF	HOV	Improved Cultural practices of Vegetable in Net House	1	1	1	0	0	0	2	0	22	0
Baragarh	RY	ON	HOO	Commercial Floriculture	1	2	0	0	1	0	6	0	8	0
Baragarh	F/FW	OFF	HOV	Improved cultural practices of Pointed Gourd Cultivation	1	1	1	0	1	0	14	0	9	0
Baragarh	F/FW	OFF	HOF	Improved Papaya Cultivation	1	1	1	0	0	0	5	0	19	0
Baragarh	F/FW	OFF	AEG	Use operation and maintenance of Drip and Sprinkler Irrigation system	1	1	0	0	1	0	8	0	16	0
Baragarh	F/FW	OFF	AEG	Use of Farm Machineries for summer ploughing	1	1	1	0	0	0	5	0	19	0
Baragarh	F/FW	OFF	AEG	Use of Rotavator for seed bed preparation	1	1	1	0	4	0	4	0	15	1
Baragarh	F/FW	OFF	AEG	Use and operation of different Weeders	1	1	0	0	10	0	1	0	14	0
Baragarh	F/FW	OFF	AEG	Rain water Harvesting Technology	1	1	0	0	3	1	0	2	12	7
Baragarh	F/FW	OFF	AEG	Water Management in paddy cultivation	1	1	14	1	1	2	0	3	4	0
Baragarh	RY	ON	AEG	Entrepreneurship development through Farm Mechanization	1	2	0	0	0	0	1	0	14	0
Baragarh	F/FW	OFF	AEG	Use of self propelled Rice Transplanter	1	1	7	0	4	0	0	0	14	0
Baragarh	F/FW	OFF	AEG	Use and operation of different Harvesting Implements	1	1	4	0	3	0	1	0	17	0
Baragarh	F/FW	OFF	CRP	Effect of INM on quality seed production	1	1	0	0	1	0	13	0	11	0
Baragarh	F/FW	OFF	CRP	Seed Selection and seed treatment in paddy	1	1	0	0	0	0	10	0	15	0
Baragarh	F/FW	OFF	CRP	Seed quality enhancement technology in groundnut	1	1	0	0	6	0	5	0	14	0
Baragarh	F/FW	OFF	CRP	Scientific seed production technique in paddy	1	1	0	0	0	0	4	2	14	5

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
Baragarh	IS	OFF	CRP	Seed certification procedure	1	1	2	2	1	0	1	0	7	2
Baragarh	RY	OFF	CRP	Seed treatment in crop production	1	2	0	0	1	0	1	0	13	0
Baragarh	F/FW	OFF	CRP	Seed longevity, deterioration & seed storage	1	1	2	0	0	0	1	0	20	2
Baragarh	F/FW	OFF	CRP	System of mustard intensification	1	1	0	0	0	0	2	0	22	1
Baragarh	IS	OFF	CRP	Seed cleaning method	1	1	2	0	5	0	0	0	6	2
Baragarh	RY	OFF	CRP	Technique of good quality seed production	1	1	0	0	1	0	3	0	11	0
Baragarh	F/FW	OFF	CRP	Technique of seed priming in different crops	1	1	1	0	0	0	8	0	16	0
Baragarh	F/FW	OFF	CRP	Technique of good quality groundnut seed production	1	1	2	0	0	0	1	0	22	0
Bargarh	F/FW	OFF	LPM	Quail Farming	1	1	0	0	0	0	8	0	17	0
Bargarh	F/FW	OFF	SFM	Use of Bio-fertilizer	1	1	0	0	2	0	2	0	21	0
Bargarh	F/FW	OFF	CBD	Group Dynamics Formation of Farm Science/Farmers Club & its Management	1	1	0	0	1	0	1	0	23	0
Bargarh	F/FW	OFF	WOE	Income generation of farm women by rearing and feeding management of Banaraj at Backyard	1	1	0	1	0	5	0	1	0	18
Bargarh	F/FW	OFF	CBD	Market Led Extension	1	1	0	0	4	0	4	0	17	0
Bargarh	F/FW	OFF	CBD	Alternate livelihood option for resource poor farm family	1	1	0	0	0	3	0	2	4	16
Bargarh	F/FW	OFF	SFM	Green manuring in rice	1	1	0	0	5	0	3	0	17	0
Bargarh	RY	ON	OTH	To trained Rural Youth for land based enterprises to utilize their resource and labour	1	2	0	0	0	0	0	0	15	0
Bargarh	F/FW	OFF	WOE	Gender mainstreaming through SHG	1	1	0	0	0	0	0	6	0	19
Bargarh	F/FW	OFF	WOE	Planning and management of nutritional garden in back yard	1	1	0	0	0	0	0	7	0	18
Bargarh	F/FW	OFF	WOE	Use of small agricultural implement (Mahua Seed Decorticator) for drudgery reduction	1	1	0	0	0	2	0	10	0	13
Bargarh	F/FW	OFF	WOE	Storage Techniques of cereals & pulses	1	1	0	0	0	0	0	3	0	22
Bargarh	RY	ON	WOE	Paddy straw mushroom cultivation for additional income generation	1	2	0	0	0	0	0	6	0	9
Bargarh	RY	ON	WOE	Preparation of 29ermin-compost unit For self-employment	1	2	0	1	0	3	0	4	0	7
Bargarh	F/FW	OFF	WOE	Feeding management of cows	1	1	0	0	0	6	0	0	0	19
Bargarh	F/FW	OFF	WOE	Cultivation technology of marigold for income generation	1	1	0	0	0	1	0	10	0	14
Bargarh	F/FW	OFF	WOE	Improved management of nursery bed for income generation	1	1	0	0	0	0	0	0	0	25
Bargarh	F/FW	OFF	WOE	Rearing management of ducks in backyard	1	1	0	0	0	9	0	10	0	6
Bargarh	F/FW	OFF	WOE	Use of small agricultural implements for drudgery reduction	1	1	0	0	0	0	0	0	0	25
Bargarh	RY	ON	WOE	Oyster mushroom cultivation for income generation	1	1	0	0	0	2	0	4	0	9

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
Bargarh	F/FW	OFF	WOE	Use of agricultural tools related to groundnut cultivation practices for drudgery reduction	1	1	0	0	0	7	0	4	0	14
Bargarh	F/FW	OFF	PLP	Use of ITKs for management of stored grain pests	1	1	0	0	1	0	3	0	11	0
Bargarh	F/FW	OFF	PLP	Integrated disease management in sesamum	1	1	6	0	7	0	2	0	5	0
Bargarh	F/FW	OFF	PLP	Seed treatment on ground nut for management of seed borne diseases	1	1	2	0	8	0	1	0	14	0
Bargarh	F/FW	OFF	PLP	Management of white grub on groundnut	1	1	0	0	5	0	3	0	17	0
Bargarh	F/FW	OFF	PLP	Management of Downey mildew of cole crops in nursery beds	1	1	0	0	0	3	0	2	20	0
Bargarh	F/FW	OFF	PLP	Use of botanical pesticides for pest and disease management	1	1	1	0	5	0	3	0	16	0
Bargarh	F/FW	OFF	PLP	IPM for parawilt and sucking pest in cotton	1	1	3	0	2	0	2	0	18	0
Bargarh	F/FW	OFF	PLP	Pest and disease management in chilli	1	1	5	0	4	0	4	0	12	0
Bargarh	F/FW	OFF	PLP	Management of bacterial wilt in tomato	1	1	1	0	0	0	7	0	17	0
Bargarh	RY	ON	PLP	Preparation of bio-pesticides	1	2	3	0	2	0	2	0	8	0
Bargarh	RY	ON	PLP	Production and handling of bio-agents including microbial pesticides	1	2	3	0	5	0	5	0	2	0

**Table 5.2. Details of Vocational training programmes for Rural Youth conducted by the KVKs**

Name of KVK	Training title	Crop / Enterprise	Identified Thrust Area	Duration of training (days)	Number of Beneficiaries							
					Gen		SC		ST		Others	
					M	F	M	F	M	F	M	F
1	Organic vegetable Production	Tomato, Okra, Brinjal, Mushroom	HOV	5	0	0	0	2	0	2	5	1
2	Objective and importance of seed testing	Oilseed, cereal & pulses	CRP	4	0	0	2	0	2	0	6	0

**Table 5.3. Details of training programme conducted for livelihood security in rural areas by the KVKs**

Name of KVK	Training title	Self-employed after training			Number of persons employed else where
		Type of units	Number of units	Number of persons employed	
Bargarh	-	-	-	-	-

**Table 5.4. Sponsored Training Programmes**

Name of KVK	Title	Thematic area (as given in abbreviation table)	Sub-theme (as per column no 5 of Table T1)	Client (FW/ RY/ IS)	Duration (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
							Gen		Others		SC		ST			
							M	F	M	F	M	F	M	F		
Bargarh	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

**Table 5.5 Training Programmes for Panchayatiraj Institutions Office-bearers & members**

Name of KVK	Title	Thematic area (as given in abbreviation table)	Sub-theme (as per column no 5 of Table T1)	Client (FW/ RY/ IS)	Duration (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
							Gen		Others		SC		ST			
							M	F	M	F	M	F	M	F		
Bargarh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**Table 5.6 Evaluation/Follow up & Impact of the training programmes conducted by the KVK (all types of trainings)**

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
			Before	After	Before	After	Before	After	
Bargarh	Organic vegetable Production	10	25	85	45	63	25000	35000	1. Area expanded (ha)-20 2. No. of farmers adopted (no.)-27 3. % change in knowledge, -29 production -40 Income -40
Bargarh	Objective and importance of seed testing	10	32	43	13	15.5	52000	62000	1. Area expanded (ha)-75 2. No. of farmers adopted (no.)-45 3. % change in knowledge, -34 production -19 Income -19
Bargarh	Nursery raising of Vegetable	25	42	54	200	220	70000	95000	1. Area expanded - 16 village 2. No. of farmers adopted (no.)-17 3. % change in knowledge, -28 production -10 Income -35
Bargarh	Nursery raising and cultivation of Zinger	25	13	37	98	120	306000	360000	1. Area expanded (ha)- 13 2. No. of farmers adopted (no.)-27 3. % change in knowledge, -24 production -22 Income -22
Bargarh	Cultivation practices of Kharif Brinjal, Tomato	25	5	27	180	200	180000	200000	1. Area expanded (ha)- 90 2. No. of farmers adopted (no.)-48 3. % change in knowledge, -22 production -11 Income -11
Bargarh	Training on Mango Grafting	15	5	33	-	-	0	2000	1. Area expanded (ha)- 15 2. No. of farmers adopted (no.)-20 3. % change in knowledge, -28 production - Income -100

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
			Before	After	Before	After	Before	After	
Bargarh	Care and Maintenance of Garden in Rainy season	25	15	20	32.3	34.3	43605	46305	1. Area expanded (ha)-75 2. No. of farmers adopted (no.)-58 3. % change in knowledge, 5-production -6 Income -6
Bargarh	Improved Onion cultivation	25	11	24	11.5	14.7	14500	20000	1. Area expanded (ha)-90 2. No. of farmers adopted (no.)-150 3.% change in knowledge-27%, Production- 27%, Income- 37%
Bargarh	Use of micronutrient in Cole crop	25	14	31	170	180	85000	95000	1. Area expanded (ha)- 30 2. No. of farmers adopted (no.)-21 3. % change in knowledge, -17 production -6 Income -6
Bargarh	INM in potato	25	13	37	98	120	306000	360000	1. Area expanded (ha)- 13 2. No. of farmers adopted (no.)-27 3. % change in knowledge, -24 production -22 Income -22
Bargarh	Improved Cultural practices of Vegetable in Net House	25	7	21	700	850	154000	187000	1. Area expanded (ha)- 58 2. No. of farmers adopted (no.)-43 3. % change in knowledge, -14 production -21 Income -21
Bargarh	Commercial Floriculture	15	37	50	120	145	24000	33000	1. Area expanded (ha)- 5 2. No. of farmers adopted (no.)-15 3. % change in knowledge, -35 production -20 Income -37
Bargarh	Improved cultural practices of Pointed Gourd Cultivation	25	14	24	102	142	12450	29600	1. Area expanded (ha)-17 2. No. of farmers adopted (no.)-30 3. % change in knowledge, -71%, Income- 39%, Production- 137%
Bargarh	Improved Papaya Cultivation	25	19	34	6.3	11.4	9500	17600	1. Area expanded (ha)-70 2. No. of farmers adopted (no.) 203 3. % change in knowledge 785, Production-80%, Income- 85%



Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
			Before	After	Before	After	Before	After	
Bargarh	Use operation and maintenance of Drip and Sprinkler Irrigation system	25	21	30	190	220	180000	200000	1. Area expanded (ha)-44 2. No. of farmers adopted (no.)- 62 3. % change in knowledge-43%, Production- 28%, Income -21%
Bargarh	Use of Farm Machineries for summer ploughing	25	40	65	35	38.2	47250	51750	1. Area expanded (ha)- 30 2. No. of farmers adopted (no.)- 36 3. % change in knowledge, -62.5 production -9.1 Income -9.1
Bargarh	Use of Rotavator for seed bed preparation	25	20	27	6.8	7.5	34000	37500	1. Area expanded (ha)-20 2. No. of farmers adopted (no.)-27 3. % change in knowledge, -35 production -10.2 Income -10.2
Bargarh	Use and operation of different Weeders	25	15	28	3.5	5.8	17500	29000	1. Area expanded (ha)-22 2. No. of farmers adopted (no.)-35 3. % change in knowledge, -86 production -37.1 Income -37.1
Bargarh	Rain water Harvesting Technology	25	32	43	13	15.5	52000	62000	1. Area expanded (ha)-75 2. No. of farmers adopted (no.)-45 3. % change in knowledge, -34 production -19 Income -19
Bargarh	Water Management in paddy cultivation	25	7	15	8.2	9.8	36900	44100	1. Area expanded (ha)- 15 2. No. of farmers adopted (no.)-27 3. % change in knowledge, -114 production -20 Income -20
Bargarh	Entrepreneurship development through Farm Mechanization	15	4	24	-	-	0	1500	1. Area expanded (ha)- 2. No. of farmers adopted (no.)-40 3. % change in knowledge, -20 production -0 Income -100
Bargarh	Use of self propelled Rice Transplanter	25	12	19	49	53	45000	48000	1. Area expanded (ha)-400 2. No. of farmers adopted (no.)-210 3. % change in knowledge, -33%, Production- 9%, Income- 8%

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on
			Before	After	Before	After	Before	After	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Bargarh	Use and operation of different Harvesting Implements	25	10	19	7.8	9.2	35100	41400	1. Area expanded (ha)-25 2. No. of farmers adopted (no.)-40 3. % change in knowledge, -90 production -18 Income -18
Bargarh	Effect of INM on quality seed production	25	17	28	15	22	75000	111000	1. Area expanded (ha)-52 2. No. of farmers adopted (no.)-45 3. % change in knowledge, -64 production -46 Income -46
Bargarh	Seed Selection and seed treatment in paddy	25	11	20	3.5	4.6	17500	23000	1. Area expanded (ha)- 10 2. No. of farmers adopted (no.)-23 3. % change in knowledge, -81 production -31 Income -31
Bargarh	Seed quality enhancement technology in groundnut	25	12	20	6.7	8.3	30150	37350	1. Area expanded (ha)-17 2. No. of farmers adopted (no.)-24 3. % change in knowledge, -66 production -24 Income -24
Bargarh	Scientific seed production technique in paddy	25	10	18	10	14	13500	18900	1. Area expanded (ha)-30 2. No. of farmers adopted (no.)-54 3. % change in knowledge, -80 production -40 Income -40
Bargarh	Seed certification procedure	15	24	32	3.7	4.8	2800	4800	1. Area expanded – 7 villages 2. No. of farmers adopted (no.)-18 3. % change in knowledge, -35 production -29 Income -71
Bargarh	Seed treatment in crop production	15	42	56	0	0	0	0	1. Area expanded – 5 villages 2. No. of farmers adopted (no.)-10 3. % change in knowledge, -34 production - Income -
Bargarh	Seed longevity, deterioration & seed storage	25	37	50	120	145	24000	33000	1. Area expanded (ha)- 5 2. No. of farmers adopted (no.)-15 3. % change in knowledge, -35 production -20 Income -37

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
			Before	After	Before	After	Before	After	
Bargarh	System of mustard intensification	25	41	54	0	0	5800	6700	1. Area expanded – 9 villages 2. No. of farmers adopted (no.)-20 3. % change in knowledge, -17 production -0 Income -13
Bargarh	Seed cleaning method	15	5	33	-	-	0	2000	1. Area expanded (ha)- 15 2. No. of farmers adopted (no.)-20 3. % change in knowledge, -28 production - Income -100
Bargarh	Technique of good quality seed production	15	4	24	-	-	0	1500	1. Area expanded (ha)- 2. No. of farmers adopted (no.)-40 3. % change in knowledge, -20 production -0 Income -100
Bargarh	Technique of seed priming in different crops	25	0	36	-	-	0	1200	1. Area expanded (ha)- 2. No. of farmers adopted (no.)-40 3. % change in knowledge, -100 production -0 Income -100
Bargarh	Technique of good quality groundnut seed production	25	7	15	9.5	11.5	47500	57500	1. Area expanded (ha)-41 2. No. of farmers adopted (no.)-55 3. % change in knowledge, -8 production -21 Income -21
Bargarh	Quail Farming	25	39	51	-	140 gm body wt. & 200 eggs per annum	14000	18500	1. Area expanded – 7 village 2. No. of farmers adopted (no.)-18 3. % change in knowledge, -32 production -100 Income -78
Bargarh	Use of Bio-fertilizer	25	5	12	6.3	6.8	31500	34000	1. Area expanded (ha)- 14 2. No. of farmers adopted (no.)-40 3. % change in knowledge, -140 production -7 Income -7
Bargarh	Group Dynamics Formation of Farm Science/Farmers Club & its Management	25	14	23	120	156	56000	72000	1. Area expanded (ha)-55 2. No. of farmers adopted (no.)-77 3. % change in knowledge -64%, Production-30%, Income 28%

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
			Before	After	Before	After	Before	After	
Bargarh	Income generation of farm women by rearing and feeding management of Banaraj at Backyard	25	39	51	3.1 kg body wt & 50 egg/annum	5.4 kg body wt. & 160 eggs per annum	6000	10500	1. Area expanded – 7 village 2. No. of farmers adopted (no.)-18 3. % change in knowledge, -32 production -74 Income -78
Bargarh	Market Led Extension	25	24	33	0	0	12000	15000	1. Area expanded – 12 units 2. No. of farmers adopted (no.)-14 3. % change in knowledge, -37 production - Income -25
Bargarh	Alternate livelihood option for resource poor farm family	25	36	48	0	1.2 kg/bed	0	36000	1. Area expanded – 12 village 2. No. of farmers adopted (no.)-22 3. % change in knowledge, -33 production -92 Income -92
Bargarh	Green manuring in rice	25	5	12	6.3	6.8	31500	34000	1. Area expanded (ha)- 14 2. No. of farmers adopted (no.)-40 3. % change in knowledge, -140 production -7 Income -7
Bargarh	To trained Rural Youth for land based enterprises to utilize their resource and labour	15	44	60	5	7	5500	7800	1. Area expanded (ha)-12 2. No. of farmers adopted (no.)-21 3. % change in knowledge, -35 production -40 Income -41
Bargarh	Gender mainstreaming through SHG	25	19	25	117	178	19000	35000	1. Area expanded – 12 village 2. No. of farmers adopted (no.)-300 3. % change in knowledge, -31%, Production-52%, Income- 84%
Bargarh	Planning and management of nutritional garden in back yard	25	44	60	5	7	5500	7800	1. Area expanded (ha)-12 2. No. of farmers adopted (no.)-21 3. % change in knowledge, -35 production -40 Income -41
Bargarh	Use of small agricultural implement (Mahua Seed Decorticator) for drudgery reduction	25	22	26	0	0	13000	17000	1. Area expanded -24 units 2. No. of farmers adopted (no.)-8 3. % change in knowledge, -21 production - Income -30

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
			Before	After	Before	After	Before	After	
Bargarh	Storage Techniques of cereals & pulses	25	41	54	0	0	5800	6700	1. Area expanded – 9 villages 2. No. of farmers adopted (no.)-20 3. % change in knowledge, -17 production -0 Income -13
Bargarh	Paddy straw mushroom cultivation for additional income generation	15	38	52	0	1.25 kg/bed	0	36500	1. Area expanded -12 village 2. No. of farmers adopted (no.)-11 3. % change in knowledge, -36 production -93 Income -93
Bargarh	Preparation of vermi-compost unit For self-employment	15	24	32	3.7	4.8	2800	4800	1. Area expanded – 7 villages 2. No. of farmers adopted (no.)-18 3. % change in knowledge, -35 production -29 Income -71
Bargarh	Feeding management of cows	25	11	24	11.5	14.7	14500	20000	1. Area expanded –90 2. No. of farmers adopted (no.)-150 3. % change in knowledge, -27%, Production- 27%, Income- 37%
Bargarh	Cultivation technology of marigold for income generation	25	37	50	120	145	24000	33000	1. Area expanded (ha)- 5 2. No. of farmers adopted (no.)-15 3. % change in knowledge, -35 production -20 Income -37
Bargarh	Improved management of nursery bed for income generation	25	42	54	200	220	70000	95000	1. Area expanded - 16 village 2. No. of farmers adopted (no.)-17 3. % change in knowledge, -28 production -10 Income -35
Bargarh	Rearing management of ducks in backyard	25	27	37	55	59	17000	25000	1. Area expanded –422 units 2. No. of farmers adopted (no.)-470 3.% change in knowledge, -37%, Production- 7%, Income- 47%
Bargarh	Use of small agricultural implements for drudgery reduction	25	24	33	0	0	12000	15000	1. Area expanded – 12 units 2. No. of farmers adopted (no.)-14 3. % change in knowledge, -37 production - Income -25

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on
			Before	After	Before	After	Before	After	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Bargarh	Oyster mushroom cultivation for income generation	15	32	40	0	2.1 kg/bed	0	5700	1. Area expanded – 7 villages 2. No. of farmers adopted (no.)-18 3. % change in knowledge, -28, production -81 Income -81
Bargarh	Use of agricultural tools related to groundnut cultivation practices for drudgery reduction	25	24	33	0	0	12000	15000	1. Area expanded – 12 units 2. No. of farmers adopted (no.)-14 3. % change in knowledge, -37, production - Income -25
Bargarh	Use of ITKs for management of stored grain pests	25	23	90	5.4	6.3	15600	18500	1. Area expanded (ha)-230 2. No. of farmers adopted (no.)-320 3. % change in knowledge190%, production66% & Income85%
Bargarh	Integrated disease management in sesamum	25	28	85	4.5	6.2	9500	10800	1. Area expanded (ha)-210 2. No. of farmers adopted (no.)-240 3. % change in knowledge-103%, production- 32%& Income-88%
Bargarh	Seed treatment on ground nut for management of seed borne diseases	25	34	75	15	22	22000	29000	1. Area expanded (ha)-560 2. No. of farmers adopted (no.)-700 3. % change in knowledge14%, production46% & Income-31%
Bargarh	Management of white grub on groundnut	25	30	69	13	19	19000	23000	1. Area expanded (ha)-650 2. No. of farmers adopted (no.)-840 3. % change in knowledge130, production 46%& Income-21%
Bargarh	Management of Downey mildew of cole crops in nursery beds	25	35	92	123	154	68000	79000	1. Area expanded (ha)-190 2. No. of farmers adopted (no.)-560 3. % change in knowledge62%, production25% & Income-61%
Bargarh	Use of botanical pesticides for pest and disease management	25	25	56	22	34	21000	25600	1. Area expanded (ha)-700 2. No. of farmers adopted (no.)-1020 3. % change in knowledge,124% production54 & Income165

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on		
			Before	After	Before	After	Before	After	1. Area expanded (ha)	2. No. of farmers adopted (no.)	3. % change in knowledge, production & Income
Bargarh	IPM for parawilt and sucking pest in cotton	25	50	80	10	14	15000	18000	1. Area expanded (ha)-75 2. No. of farmers adopted (no.)-65 3. % change in knowledge60%, production 40% & Income20%		
Bargarh	Pest and disease management in chilly	25	35	74	53	78	53000	70000	1. Area expanded (ha)-125 2. No. of farmers adopted (no.)-320 3. % change in knowledge111%, production47% & Income50%		
Bargarh	Preparation of bio-pesticides	25	25	60	85	105	16000	19600	1. Area expanded (ha)210 2. No. of farmers adopted (no.)-275 3. % change in knowledge140%, production 40% & Income22%		
Bargarh	Production and handling of bio-agents including microbial pesticides	25	50	75	32	41	18300	25400	1. Area expanded (ha)140 2. No. of farmers adopted (no.)-150 3. % change in knowledge50%, production28% & Income38%		

### 6. EXTENSION ACTIVITIES

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
Bargarh	Field Day	18	7	211	0	40	12	6	3	Spread out the new technologies	Crop cutting, yield assessment	Harvesting stage
Bargarh	KisanMela	2	2	490	100	30	52	4	2	Awareness	New varieties	
Bargarh	Kisan Gosthi	6	10	524	23	20	10	2	1	Capacity building	Self-employment	
Bargarh	Exhibition	3	3	163 8	525	420	175	35	27	Exhibit new technologies	Banaraja, Khaki Campbell, Paddy winnower	
Bargarh	Film Show	48	50	499	42	100	90	12	9	Awareness	Vermicomposting, hybrid rice seed production, backyard poultry farming, farm mechanization, Green & poly house, mushroom cultivation etc.	
Bargarh	Method Demonstrations	19	17	50	33	25	9	4	1	Skill development	Preparation of botanicals, seed priming, seed testing, mushroom bed preparation, use of desiccant in groundnut, use of pro-trays, use of mahua seed decorticator & groundnut stripper, demonstration of zero seed drill machine & rice transplanter, groundnut cycle weeder, power weeder in cauliflower etc	

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
Bargarh	Farmers Seminar	10	3	100	25	30	15	3	7	Problem of their locality & its alternatives, Income generation	Integrated approach	
Bargarh	Workshop	4	4	33	19	18	10	2	4	Knowledge enhancement	Use of power sprayer and small implements	Tillering stage and PI stage
Bargarh	Group meetings	30	35	386	130	58	27	7	8	Group approach	Group formation, leadership development, Income generation	Seedling stage and trailing stage , income generation activity
Bargarh	Lectures delivered as resource persons	30	35	425	233	80	20	30	12	Teaching	IPM,ICM, Crop diversification, value addition	All stage
Bargarh	Newspaper coverage	9	6	mas s						Awareness	R-E meeting, District Livestock Exhibition, SAC, Capacity building training programme, PMFBY, VT programme	
Bargarh	TV talks	8	1	Mas s						Mass coverage	Organic farming, protected cultivation, production of bi products	
Bargarh	Popular Articles	4	4	114	45	30	21	14	2	Knowledge enhancement	Onion cultivation, cauliflower cultivation, colocasia cultivation, papaya cultivation etc	
Bargarh	Extension Literature	4	2	914	56	428	22	24	6	Change of attitude	Income generation through self-employment	
Bargarh	Farm Advisory Services	49	63	130	60	70	10	50	30	More yield	Timely irrigation and drainage	Maturity stage
Bargarh	Scientific visit to farmers field	216	225	334	193	89	49	4	0	To solve Field problems	Control of gall midge, blast, panicle mite, F&M disease of cow, Ranikhetdisease of poultry	
Bargarh	Farmers Visit to KVK	400	445	384	59	57	54	3	1	Collection of seedlings	High yielding varieties, spawn	
Bargarh	Diagnostic Visits	70	84	710	59	57	54	3	1	To solve Field problems	Irregular fruiting of maize, uneven flowering of paddy	
Bargarh	Ex-trainees Sammelan	2	2	6	15	2	2			Change of knowledge	Rearing poultry birds, Oyster mushroom cultivation, Broccoli cultivation	
Bargarh	Soil Health Camp	1	1	189	0	15	8	10	1	Awareness	Uses of bio-fertilizer, green manuring in crops	
Bargarh	Soil Test Campaigns	1	1	13	-	1	2	0	0	Awareness	Application of fertilizer based on soil test report	



Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
Bargarh	Farm Science Club conveners meet	4	4	75	-	30	-	3	-	Technology dissemination	Farm mechanization, Mushroom cultivation, Poultry & small ruminants rearing techniques	
Bargarh	Self Help Group conveners meetings	4	4	117	0	53	0	6	0	Adoption	Value addition and vocational activities	

## 7. Literature Developed/Published (with full title, author & reference)

### 7.1 KVK Newsletters

KVK Name	Date of start	Periodicity	Number of copies printed	Number of copies distributed
Bargarh	01.12.2016	Quarterly	500	500

### 7.2 Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Bargarh	Booklet (Oriya)	Potala Chasa	Sri Sanat Kumar Meher, Ms. Rukeiya Begum, Smt. SusritaSahu	500
Bargarh	Booklet (Oriya)	Unnata Krushire Bunda Jalasechan	Mr. Tarak Chanda Panda, Mr. Nrusingha Charan Barik, Ms. Trupti Bhoi	500

### 7.3 Details of Electronic Media Produced

KVK Name	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
Bargarh	-	-	-

## 8. Production and supply of Technological products

### 8.1 SEED production

KVK Name	Major group/class	Crop	Variety	Quantity (qt.)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Bargarh	Cereal	Paddy	(CS)	180		Unprocessed	5
Bargarh	Fodder	Dhanicha	-	7	28000		1
Bargarh	Pulses	Arhar	Maruti	2		Unprocessed	1

## 8.2 Planting Material production

KVK Name	Major group/class	Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Bargarh	Vegetables	Broccoli	PUSA KTS-1	10500	21000	35	0.40
Bargarh	Vegetables	Marigold	Ceracole	8000	9600	26	0.30
Bargarh	Vegetables	Tomato	SwarnaSampad	1800	800	9	0.09
Bargarh	Vegetables	Papaya	Red Lady	250	5000	10	0.12

## 8.3 Production Units (bio-agents / bio pesticides/ bio fertilizers etc.) \* Name of product should follow same pattern and spelled correct

KVK Name	Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Qty (In Kg)	Qty (In No)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Bargarh	Bio-fertilizer	Vermi compost	2230	-	22300	35	4.4
Bargarh	Bio Agents	-	-	-	-	-	-
Bargarh	Bio Fertilizer	Vermi	-	7500	7500	20	-
Bargarh	Bio Fertilizer	-	-	-	-	-	-

## 8.4 Livestock and fisheries production

KVK Name	Name of the animal / bird / aquatics	Breed	Type of Produce	Qty. (kg/qt./litre )	Value (Rs.)	No. of Beneficiaries
-	-	-	-	-	-	-

## 9. Activities of Soil and Water Testing Laboratory

### 9.1 Details of soil samples analyzed so far :

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Soil report distributed to the farmers (Nos)
Bargarh	Running	2004-05	NPK, Organic carbon, pH, EC etc	166	252	30	-	252

### 9.2 Details of water samples analyzed so far :

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Water report distributed to the farmers (Nos)
Bargarh	-	-	-	-	-	-	-	-

## 10. Rainwater Harvesting

### Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Name of KVK	Date	Title of the training course	Client (PF/RV/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
					Male	Female	Total	Male	Female	Total
Bargarh	-	-	-	-	-	-	-	-	-	-

### 11. Utilization of Farmers Hostel facilities

KVK Name	Months	Year	Title of the training course	Duration of training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)	Accommodation available (No. of beds)
Bargarh	-	-	-	-	-	-	Very poor condition of toilet & bathroom, lack of fooding facility	-

### 12. Utilization of Staff Quarters facilities

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
Bargarh	1995	1998	1	1	Inhabitable condition

### 13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Bargarh	09.12.2016	25	<ol style="list-style-type: none"> <li>1. Training should be held for awareness on spraying of sulphur in oilseed crop for quick result so that more no. Of farmers will apply sulphur for increase in oil content.</li> <li>2. Other than electricity source of energy is used for light trap operation in crop field</li> <li>3. Bio-control lab should be provided to prepare tricho-card at KVK for easy&amp; timely access of farmers as the product is popularized day by day among farming community.</li> <li>4. Wilt complex in pointed gourd should be specifically categorized for analysis.</li> <li>5. IFS should be popularized among other than pond based also.</li> <li>6. Borax soil application of groundnut in 10% concentration in normal water and 20% concentration in lukewarm water and at earthing up stage for better result so that boron will be available to pod rather than leaf. It also helps in fertilization as pollination time will increase.</li> <li>7. Popularization of floriculture especially gladioli and tuberoses so that marketing will be not a big issue for farmers.</li> <li>8. Experiment should be taken on control of leaf spot of marigold and how it affects the yield.</li> <li>9. Harvested crop should be weighted at field day.</li> <li>10. Covering input dealer and retailer in training programme of KVK through sponsorship of ATMA or other funding agency.</li> <li>11. To promote dhanicha farming in farmers field for green manuring.</li> <li>12. To carry out calibration trial on zero seed drill between OUAT and other company.</li> <li>13. To carry out experiment on white seeded improved var. of sesamum.</li> <li>14. Popularization of Red lady var. Of papaya and broccoli among farmers.</li> <li>15. To cover fishery sector in OFT and FLD programme.</li> <li>16. To analyze the effect of tag mix of fungicides and pesticides and prevention measures of different diseases of paddy and other imp crops of Bargarh district.</li> <li>17. Gave emphasis on impact analysis of publication, leaflet, booklet and other printing material of KVK.</li> <li>18. Identify the active ingredient of bio-pesticide responsible for disease control and any other actions.</li> </ol>

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
			19. Advised to take advanced variety of mustard for SMI. 20. Advised to keep calcium chloride as dessicant in groundnut in muslin cloth before putting into a bottle otherwise it will vaporize by coming contact with moisture. 21. Gave recommendation to take another treatment of Oxyflurofen + Quizalphous in onion as T3 after 7-8 days of transplantation. 22. To promote farmers for IFS for doubling the farm income by 2022 through recent development and technologies. He also ensures to grant financial assistance in the programme of creating at least 3-4 ideal farmers in each block with the joint collaboration of NABARD, KVK and Line dept.

#### 14. Status of Kisan Mobile Advisory (KVK-KMA)

KVK Name	No. of messages sent	No. of beneficiary		Sponsoring agency (NIC, Farmers Portal, etc.)	Major recommendations
		Farmers	Ext. Pers.		
Bargarh	63	18045	55	Farmer's Portal	Crop Production, Plant Protection, Marketing, Awareness, Livestock, Horticulture

#### 15. Status of Convergence with various agricultural schemes (Central & State sponsored)

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received (Rs.)	Activities organized	Operational Area	Remarks
Bargarh	ATMA	STATE	-	-	-	-
Bargarh	RKVY	CENTRE	-	-	-	-
Bargarh	DRDA	STATE	-	-	-	-
Bargarh	BGREI	CENTRAL	-	-	-	-
Bargarh	Others (Plz. Specify)					

#### 16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Bargarh	30163765041	446951	0	0

#### 17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Bargarh	Sri FirozSahu	Farmer	OUAT	-

#### 18. Details of KVK Agro-technologicalPark.

##### a) Have you prepared layout plan, where sent?

S.No.	Name of KVK	Technology park proposal developed(yes/no)	If yes, where sent?(ZPD/DES/any other,pl. sp.)
1	Bargarh	Yes	ZPD,DES

## b) Details about Technology Park

Name of KVK	Name of Component of Park	Detail Information (If established)
Bargarh	Crop Cafeteria	Tomato, Colocasia, Green gram, Pigeon pea, Dhanicha, Groundnut, Mango, Marigold
	Technology Desk	
	Visitors' Gallery	
	Technology Exhibition	
	Technology Gate-Valve	

## c). Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria
1	Crop diversification in upland	Groundnut, Pigeon pea, ,Mango, Dhanicha, Green gram, Marigold, , Sesamum
2	Horticultural crop	Colocasia, Tomato

## 19. Farm Innovators- list of 10 Farm Innovatorsfrom the District

Sr. No.	Name of KVK	Name of Farm Innovator	Name of the Innovation	Address of the farmer with Mobile No.
1	Bargarh	Sri FirozSahu	Use of mobile operated water pumpset	At-Baulsingha, PO-Tejagola, Dist-Bargarh, Mob-8018643117
2	Bargarh	Sri KarunakaraPradhan	Intercropping of cow-pea in Oilpalm cultivation	At-Patrapalli, PO-Nuagada, Dist-Bargarh, Mob-9777247163
3	Bargarh	Sri Bharat Pradhan	Paddy straw Mushroom and spawn production throughout the year	At-Jamtikra, PO-Bugbuga, Dist-Bargarh, Mob-9937573799
4	Bargarh	Sri Sandeep Kumar	Oyester mushroom & mushroom spawn production	At-/PO-Tupapada, Dist-Bargarh, Mob-7894523236
5	Bargarh	Sri Madan Das	Introduction of pungas seeds in pisciculture&Arhar cultivation in pond bound of IFS system	At-Udepur, PO-Desbhatli, Dist-Bargarh, Mob-9437736068
6	Bargarh	Sri Raghunath Das	Drip irrigation in Banana	At-Khuntulipalli, PO-Dalab, Dist-Bargarh, Mob-9861173648
7	Bargarh	Sri DineswarSahu	Supplementation of vitamin and mineral mixture to milch cows	At/PO-Purena, , Dist-Bargarh, Mob-9178522322
8	Bargarh	Sri RebatikantaBehera	Broccoli cultivation	At-Baulsingha, PO-Tejagola, Dist-Bargarh, Mob-9078099817
9	Bargarh	Sri SachidanandaMeher	Use of wheel cycle weeder for intercultural operation in groundnut	At/PO-Tukurla,Dist-Bargarh, Mob-8018942749
10	Bargarh	Smt.Rajani Patel	Marigold cultivation	At-Sampalli, PO- Bhainatura, GP-Kapasira,,, Block-Ambabhona, Dist-Bargarh, Mob-9438418610

## 20. KVK interaction with progressive farmers

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers participated
1	17.08.2016	4
2	09.12.2016	4
3	25.03.2017	6

## 21. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
Bargarh	12	12	310	870

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, Awareness programmes etc.

## 22. Technology Demonstration under Tribal Sub Plan on Pulses/Programme on Harnessing Pulses/ Quality Protein Maize, if applicable.

Sr. No.	Name of crop under Technology demonstration	Area under the programme	No. of Extension Activities	Remarks / Lessons learnt
1	-	-	-	-

## 23. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
1	Sambalpur, KVK	Manpower, machinery & Critical inputs	Techniques of Mango grafting
2	Sonepur, KVK	Manpower, machinery & Critical inputs	Dry land farming

## 24. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Bargarh	Dr. R.K. Panda,	30-08-2016	Principal Scientist, ICAR-IIWM, Bhubaneswar			Interaction regarding preparation of sound Agricultural plan for Bargarh district
Bargarh	Dr. p.s. Brahmanand,	30-08-2016	ARS Principal Scientist (Agronomy), ICAR-IIWM, Bhubaneswar			KVK, Bargarh has been doing excellent agricultural development and extension activities for the benefit of farming community.
Bargarh	Dr. S.K. Sribastav	28-09-2016	Principal Scientist, Entomology, ICAR-CIWA, Bhubaneswar			KVK, Bargarh has extended best co-operation to conduct Farmer-Scientist Interaction at Sansad Gram, Nalichuan
Bargarh	Dr. P.L. Pradhan,	24-10-2016		O.I.C., AICRP in F.I.M., CAET, OUAT, Bhubaneswar		It gives immense satisfaction to see the rice crops which is already in maturity stage. It is evident that the crop was sown early. It shows the work culture and sincerity of the KVK staffs
Bargarh	Smt. Pratibva Dora	09-12-2016			Deputy Collector, Revenue & Judicial, Bargarh	-
Bargarh	Sri S.K. Jena	09-12-2016			DDM, NABARD, Bargarh	
Bargarh	Sri Subash mohapatra	09.12.2016		JDEE, OUAT, Bhubaneswar		

## 25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1	Bargarh	02-04-2016 ( New Dynamic web site)	36	2668

## 26. E-CONNECTIVITY

Name of KVK	Number and Date of Lecture delivered from KVK Hub				No. of lectors organized by KVK	Brief achievements	Remarks
	Date	No. of Staff attended	No. of call received from Hub	No. of Call mate to Hub by KVK			
Bargarh	-	-	-	-	-	-	-

## 27. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals	Remarks
1	Bargarh	-	-	-

## 28. Status of Citizen Charter

Sr. No.	Name of KVK	Query received( Nos)	Query Disposed( Nos)	Remarks
1	Bargarh	-	-	-

## 29. Attended HRD Programmes organized by ZPD

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Bargarh	Sri Sanath Kumar Meher, Scientist Hort.	15-12-2016 to 17-12-2016	1	Recent advance technology in hort. IIHR Bangaluru
Bargarh	Sri Sanath Kumar Meher, PA, Computer	21-03-2016 to 23-03-2016	1	“Digital KVK: An ICT initiative” of PA (Computer) at DE, JNKV, JABALPUR
Bargarh	Sri NrusinghaCharanBarik, Scientist Plant Protection	24-12-2016	1	Warehouse construction & Development authority at JNKV, LABALPUR
	Total		3	

Name of KVK	Total Number of staff Attended HRD Programme organized by ZPD (nos)	Total Number of Programmeattended (Nos)
Bargarh	3	3

## 30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programmeattended (Nos)	Remarks
Bargarh	-	-	-	-



Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
Bargarh	-	-

### 31. Attended HRD Programmes by KVK Staff (Refresher course, Short course, Training programme etc.)

Name of KVK	Name of Staff	Post held	Programmes attended (Nos)	Remarks
-	-	-	-	-

Name of KVK	Total Number of staff Attended HRD Programmes by KVK staff (nos)	Total Number of Programmes attended (Nos)
Bargarh	3	3

### 32. Agri alert report (Epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. And ICAR)

Name of KVK	Alert observed	Particulars	Reported to organization
Bargarh	-	-	-

### 33. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Bargarh	Lectures organized	3	40	Uses of residual bio-waste paddy straw in mushroom cultivation, Promotion of vermin compost by using kitchen wastages, cow-dung and poultry rearing & marigold cultivation among shg groups
Bargarh	Film show	1	50	On vermicomposting
Bargarh	Farm Visit	1	15	Paddy, mushroom, vermicompost, organic farming & cabbage
Bargarh	Awareness camp	3	230	Fodder cultivation, Soil conservation through cover crop & water harvesting structure in rainfed area
Bargarh	Method demonstration	2	30	Demonstration of power weeder for weeding in cauliflower, Uses of eco-friendly techniques for pest control
Bargarh	Distribution of Literature (No.)	6	500	Newsletter & Booklet
Bargarh	Mass media	1	-	DD Programme on Oilpalm cultivation
Bargarh	Total number of farmers visited the technology week	17	865	

### 34. INTERVENTIONS ON DROUGHT MITIGATION

#### Introduction of alternate crops/varieties

Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries
Bargarh	-	-	-

#### Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries
Bargarh	-	-	-

#### Farmers-scientists interaction on livestock management

Name of KVK	Livestock components	Number of interactions	No.of participants
Bargarh	-	-	-

#### Animal health camps organized

Name of KVK	Number of camps	No.of animals	No.of farmers
Bargarh	-	-	-

#### Seed distribution in drought hit states

Name of KVK	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Bargarh	-	-	-	-

#### Seedlings and Saplings distributed

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
Bargarh	-	-	-	-

#### Bio-control Agents

Name of KVK	Bio-control Agents	Quantity (q)	Coverage of Area (ha)	No. of farmers
-	-	-	-	-

#### Bio-Fertilizer

Name of KVK	Bio-Fertilizer	Quantity (kg)	Coverage of Area (ha)	No. of farmers
-	-	-	-	-

#### Verms Produced

Name of KVK	Verms Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers
-	-	-	-	-

#### Large scale adoption of resource conservation technologies

Name of KVK	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Bargarh	-	-	-

#### Awareness campaign

Name of KVK	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
Bargarh	-	-	-	-	-	-	-	-	-	-	-	-

## 35. Proposal of NICRA

### 1. Technologies to be Demonstrated

Name of Technology	Name of Crop	Area (ha.)	Yield	% change in Yield	No. of farmers benefitted
-	-	-	-	-	-

### 2. Proposed Extension Activities in NICRA Village

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total
-	-	-	-	-

### 3. Proposed Training Activities in NICRA Village

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total
-	-	-	-	-

### 4. Proposed Activities for Fodder Bank

Established (Years)	Capacity	Current Status
-	-	-

### 5. Proposed Activities for Seed Bank

Established (Years)	Capacity	Current Status
-	-	-

### 6. Public Representative/District Administration Visited in NICRA Village

Name of Representative/Officer	Designation	Date of Visit	Any Special Remark by Visitors
-	-	-	-

### 7. Feedback of Farmers for future improvement, if any.

There should be field level workers to assist KVK scientists in field for technology dissemination, cluster demonstration & other extension activities more efficiently and smoothly.

### 36. Proposed works under NAIP (in NAIP monitoring format) NA

### 37. Case study / Success Story to be developed – Two best only in the following format

Name of the KVK, **TITLE, Introduction**, and KVK intervention, Output, Outcome and Impact

Sr. no.	Name of KVK	No. of success stories	No. of case studies
1	Bargarh	1	1

**Title–Broccoli Cultivation a New revolution in Market**

Sri Shrimukha Sahu, S/o Narahari sahu, aged 43 is a higher secondary farmer of Village- Baulsingha,GP-Tejagola, Block-Bhatli, Dist-Bargarh,practicingCabbage cultivation in Kharif 2016-17 in just 0.25 acre of his land. But due to non-marketing of cabbage he just left the crop in field in spite of harvesting & saling, as the labour cost of harvesting the cabbage exceeded the value of the cabbage in market. He faced a severe loss due to the non-marketing of the cabbage. He was very upset and the economic condition of the farmer was seemed to be very miserable.

One day he came in contact with Scientists of KVK, Bargarh located at a distance of 50 km from his village, who insisted him to take up Broccoli cultivation instead of Cabbage. They took him along with a group of farmers and exhibited Broccoli on the occasion of district level agricultural fair *Dhanuyatara* at Bargarh, where broccoli sold at a price of Rs. 60/- per piece.

Initially he invested Rs 4,000 towards broccoli cultivation. After 3 months he harvested and sold it @ Rs 20 per piece and earned a net profit of Rs. 30,000/- after his family & Friends consumption merely from a 0.25 acre piece of land.

Today he is the most advance farmer because of innovative step to cultivate a new crop which is absolutely unknown to him and nearby farmers for the first time in his block. He has now as broccoli farmer.



## Title – Groundnut Cultivation

Sri Basanta Barik **S/o-Bhagirathi Barik, At- Patrapalli, Po- Nuagada, Block-Bhatli, Dist-Bargarh, Odisha, Age -60** is considered as a progressive farmer. His nine membered family consists of his wife, one daughter and two sons and their children. He is the owner of 10 acres of land in which he is cultivating paddy on 7 acres, vegetables like pumpkin & chilli on 2 acres and groundnut in one acre of land. At the age of 15 years he helped his father in rice cultivation. Gradually he showed interest in crop diversification like groundnut cultivation. During Kharif 2016, he was set up his mind for Kharif groundnut in more area under the guidance of KVK. After getting technical intervention from KVK scientist he selected three acres of upland area and cultivated it by using MB plough and Zyrogater thoroughly. The KVK supplied him shorter duration variety *TPG-41* instead of conventional variety AK 12-24 for its boldness, higher oil content, well resistance to collar rot disease with higher yield. For this he had used 50 kg of foundation seeds/acre @ Rs 86/kg & done seed treatment with *Vitavax Power* @ 2.5gm/kg of seed. He applied 10 carts of compost/acre with balanced dose of fertilisers & micronutrients like Boron & Sulphur. *Gypmite* was also supplied by KVK @ 50kg/acre and applied during time of hoeing and earthing up for better pod development. Timely irrigation with need based spraying of pesticide & insecticides was also done.

The KVK scientist visited his field regularly. He was suggested for application of post emergence herbicide *Imizathapyre 7% SL* @ 400 gm. /acre at 20 DAS, which controlled the weeds drastically. Spraying *Profenphos 50EC* @ 2ml/ltr was done at 40 DAS for control of *Spodoptra litura*. The crop was inspected at monthly interval and harvesting was done when the pods were fully matured with yellowish leaves. A produce was dried for 3-4 days and stored carefully. During the entire crop stage no serious disease and insect pest found in the field. Incidence of Collar rot disease and Tikka disease was very less. The yield obtained was higher than ever with more than 90% well filled pods. The produce was highly appreciated by the nearby villagers. The concerned farmer sold his entire produce 18 q. as seed for Rabi season.

### Outcome

Practice used	Total cost of cultivation	Gross income	Net income	Cost benefit ratio	% increase
Line sowing, seed treatment with vitavax power @ 2.5gm / kg seed, application of gypmite @ 1.25 qntl/ha	47200	85000	37800	1.8	42%

### Photographs



38. Well labeled Photographs for each activity of the KVK (Soft copies as well as hard copy- specially for all OFT along with the problem) –

		
<p><i>Seed priming methods for early growth and nodulation in green gram for better germination</i></p>	<p><i>Storage of Groundnut with Desiccant</i></p>	<p><i>System of Mustard Intensification</i></p>
		
<p><i>Efficacy of herbicide Bispyribac sodium on transplanted kharif rice for weed control</i></p>	<p><i>Puddling by cage wheel &amp; cultivator for irrigation water management in paddy</i></p>	<p><i>Drip Irrigation system in Banana</i></p>



*Transplanting of Turmeric cv.Suroma*



*Bio chemical control measures against mealy bug (Phenacoccus solenopsis )infesting cotton*



*Bio fungi toxicants against blast fungi*



*Suitability of selected rice varieties for puffed rice for value addition*



*Improved nursery management for income generation of farm women*



*Pallishree breed of Poultry*



*Application of Gympite in greengram under Kharif cluster programme*



*Phomopsis Resistant Brinjal Hybrid “ Swarna Shakti*



*Hypsizygous Ulmarius mushroom*



*Weeding in Sesamum under cluster kharif programme*



*Green gram at Peak vegetative stage under kharif cluster programme*



*Pigeon pea at flowering stage under kharif cluster programme*





*Mustard under Rabi cluster programme*



*IDM practices against blast diseases of Kharif paddy*



*Integrated Nematode Management practices against black rot disease affecting Banana*



*Demonstration of micronutrients application in green gram*



*Demonstration of Mahua seed decorticator for drudgery reduction*



*Demonstration on storing of greengram in the grain pro super bag*



*Demonstration on tractor drawn seed cum fertilizer drill for sowing groundnut*



*Strengthening Farmers' Club for technology dissemination*



*Adoption, dynamics and impact of transferred technology on Vitamin-mineral mixture supplement for dairy animals*



*Spreading of technology through para extension workers (SRI Paddy)*



*Popularization of self propelled rice transplanter*



*Popularization of improved variety of paddy CR Borodhan-2*



*14<sup>th</sup> SAC Meeting*



*Awareness camp cum Exhibition on PMFBY at Kanheipalli*



*Celebration of Jai Kisan Jai Vigyan Divas at Baulsingha*



*BGREI Field Visit at Attabira with AAO*



*CD show on vermi-composting at Banjipalli*



*Visit to KVK stall of Dignitary Ms. Snehangini Chhuria (MLA-Attabira) during Dist level livestock exhibition at Patarapali*



*DD Programme on Oilpalm cultivation*



*PRA at Nalichuan with RAWI students under READY Programme*



*Celebration of Women in Agriculture Day at Dunguri*



*Swachha Bharat Abhiyan at Andharipalli*



*PMUY Programme at KVK, Baragarh*



*Celebration of World soil health day*

**Sr. Scientist & Head  
KVK, Baragarh**