

**ANNUAL PROGRESS REPORT OF
KVK, BHADRAK, ODISHA
2012-2013
(APRIL, 2012-MARCH, 2013)**

**ORISSA UNIVERSITY OF AGRICULTURE & TECHNOLOGY
BHUBANESWAR -751 003
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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. Gray colour cells in summary table need not to be filled.**

REPORTING PERIOD – April 2012 to March, 2013**Summary of achievements during the reporting period**

KVK Name	Activity	Target		Achievement		Total value of resource generated/Fund received from diff. sources (Rs.)
		Number of activity	No. of farmers/ beneficiaries	Number of activity	No. of farmers/ beneficiaries	
Bhadrak	OFTs	22	156	18	134	
Bhadrak	FLDs – Oilseeds (activity in ha)	5	12	10	31	
Bhadrak	FLDs – Pulses (activity in ha)	5	12	5	17	
Bhadrak	FLDs – Cotton (activity in ha)	-	-	-	-	
Bhadrak	FLDs – Other than Oilseed and pulse crops(activity in ha)- 16nos	27.4	180	29.0	152	
Bhadrak	FLDs – Other than Crops (activity in no. of -3nosUnit/Enterprise)	3	30	3	25	
Bhadrak	Training-Farmers and farm women	64	1655	68	1863	
Bhadrak	Training-Rural youths	15	345	13	295	
Bhadrak	Training- Extension functionaries	10	165	7	113	
Bhadrak	Extension Activities	560		560	7769	
Bhadrak	Seed Production (Number of activity as seeds in quintal)	260	-	243.0	-	
Bhadrak	Planting material ((Number of activity as quantity of planting material in quintal)	-	-	-	-	
Bhadrak	Seedling Production (Number of activity as number of seedlings in numbers)	41000	490	14561	318	3878
Bhadrak	Sapling Production (Number of activity as number of sapling in numbers)	3000	250	-	-	
Bhadrak	Other Bio- products (Mushroom spawn)	2520	250	1046	100	
Bhadrak	Live stock products-Stunted fingerlings	80000	50	67360	50	84200
Bhadrak	SAC Meeting (Date & no. of core/official members	1	25	1	25	
Bhadrak	Newsletters (no.)	2		1	500	
Bhadrak	Publication (Research papers, popular article)	35		5	2500	
Bhadrak	Convergence programmes / Sponsored programmes	-		3	-	
Bhadrak	KVK-ATMA Linkage programme (Number of activities)	3	1500	3	1500	
Bhadrak	Outreach of KVK in the District (No. of blocks, no. of villages)	72	12000	73	13476	
Bhadrak	Soil sample tested	800	500	565	215	
Bhadrak	Water sample tested	200	100	154	80	
Bhadrak	KMA (No. of messages & beneficiaries)	144	510	66	679	

1. GENERAL INFORMATION

1.1. Staff Position (31-03-2013)

Name of KVK.	Sanctioned post	Name of the Incumbent	Discipline	Highest degree	Subject of Specialization	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/Others)
Bhadrak	Programme Coordinator	Dr.A.Das	Agronomy	Ph.D. (Agronomy.)	Agronomy	15600-39100 & GP-8000	23230	03.09.12	Permanent	Others
Bhadrak	Subject Matter Specialist1	Sri A.P. Nayak	Fishery Science	M.F Sc	Aquaculture	15600-39100 & GP-6000	20590	24.03.05	Permanent	OBC
Bhadrak	Subject Matter Specialist2	Sri M.K. Jena	Soil Science	M. Sc (Soil Sc.)	Soil Science	15600-39100 & GP-6000	20590	13.02.06	Permanent	Others
Bhadrak	Subject Matter Specialist3	Sri U.S.Nayak	Plant Protection	M. Sc (Entomology)	Entomology	15600-39100 & GP-6000	20590	20.06.11	Permanent	Others
Bhadrak	Subject Matter Specialist4	Sri P.K.Mandal	Agronomy	M. Sc (Agronomy)	Soil and water conservation	8,000-275-13,500	5556	14.12.09	Permanent	Others
Bhadrak	Subject Matter Specialist 5	Ms L. Pradhan	Home Science	M.Sc (Home Sc)	Home Science	15600-39100 & GP-6000	17610	20.10.09	Contractual	Others
Bhadrak	Subject Matter Specialist6	Sri. B.N.Sahoo	Horticulture	M. Sc (Horticulture)	Horticulture	15600-39100 & GP-6000	19810	18.06.12	Permanent	Others
Bhadrak	Programme Assistant	Sri. G.Sihal	Forestry	B. Sc (Forestry)	Agro-Forestry	9300-34,800 & GP-4200	11940	01.10.12	Permanent	SC
Bhadrak	Farm Manager	Sri P.K. Choudhury	Bio-technology	M.Sc (Ag) (Biotechnology)	Bio-technology	9300-34,800 & GP-4200	17600	04.07.05	Permanent	Others
Bhadrak	Computer Programmer	Sri J.K. Biswal	Computer Application	M.C.A.	Computer Application	9300-34,800 & GP-4200	12430	19.06.08	Permanent	Others
Bhadrak	Accountant / superintendent	Sri S. Mandal	-	B.A	-	9300-34,800 & GP-4600	16430	01.08.09	Permanent	SC
Bhadrak	Stenographer	Smt R. Singh	-	B.A.	-	5200-20200 & GP-2400	6700	11.10.06	Contractual	OBC
Bhadrak	Driver	Sri S.K.Nayak	-	-	-	5200-20,200 & GP-1900	5870	21.12.09	Contractual	Others
Bhadrak	Driver	Sri S.S.Pattnaik	-	-	-	5200-20,200 & GP-1900	5870	27.01.11	Contractual	Others
Bhadrak	Supporting staff	Sri N.Mahalik	-	9 th Pass	-	4440-7440 & GP-1300	4990	28.07.08	Contractual	SC
Bhadrak	Supporting staff	Sri P.K. Dalai	-	9 th Pass	-	4440-7440 & GP-1300	4990	05.08.08	Contractual	OBC

1.2. DISTRICT PROFILE (detail of geographical area, cultivation, Land, resources, opportunities, irrigation, populations etc.)**A. Block Wise Cultivable area of Bhadrak District(in terms of ha.)**

KVK Name	Name of the Block	No. of Villages	Geographical areas	Cultivable Area			
				High	Medium	Low	Total
Bhadrak	Bhadrak	170	35424	2617	14825	9158	26600
Bhadrak	Tihidi	159	37812	1061	8060	13829	22950
Bhadrak	Basudevpur	204	52923	2535	15371	16494	34400
Bhadrak	Dhamnagar	153	24340	647	6007	11896	18550
Bhadrak	Bhandaripokhari	176	23024	1767	6433	9700	17900
Bhadrak	Chandbali	289	68411	455	4302	31943	36700
Bhadrak	Bonth	205	28230	4535	7662	6703	18900
Bhadrak	Total	1356	270164	13617	62660	99723	176000

B. Land Holding Pattern in Bhadrak District

Name of KVK	Types of Land	Area in Ha.	Size of Holding	No. of Holdings	% Total	Area(ha) under cultivation	% Total
Bhadrak	Cultivable Area	176000	< 1ha	86120	58.5	39057	22.2
Bhadrak	Total Paddy Area	165300	1-2ha	3445	23.4	47850	27.2
Bhadrak	High Land Paddy Area	7307	2-4ha	20850	14.3	55340	31.4
Bhadrak	Med. Land Paddy Area	58270	4-10ha	5431	3.6	29988	17.2
Bhadrak	Low Land Paddy Area	99723	>10ha	249	0.2	3322	2.0

Source: Agricultural Strategy of Bhadrak District, Kharif-2010

C. Population

Name of KVK	Description	Census 2011	Census 2001
Bhadrak	Actual Population	1,506,522	1,333,749
Bhadrak	Male	760,591	675,642
Bhadrak	Female	745,931	658,107
Bhadrak	Population Growth	12.95%	20.61%
Bhadrak	Area Sq. Km	2,505	2,505
Bhadrak	Density/km²	601	532
Bhadrak	Proportion to Orissa Population	3.59%	3.62%

As per Census-2011

1.3. DETAILS OF ADOPTED VILLAGE (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)
Bhadrak	Gopalpur	2005-06	Bonth	32 km	550	110
Bhadrak	Gandakura	2005-06	Bonth	33 km	523	100
Bhadrak	Jamajodi	2005-06	Tihidi	35 km	490	98
Bhadrak	Madhusudanpur	2007-08	Basudevpur	18 km	528	104
Bhadrak	Sriganga	2008-09	Dhamnagar	34 km	417	78

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

KVK Name	THRUST AREA
Bhadrak	Promoting Diversified cropping patterns with emphasis on the area expansion of pulses and oil seed crops
Bhadrak	Technological intensification in rice farming
Bhadrak	Promoting Integrated farming system approach through judicious integration of suitable on-farm and off-farm enterprises
Bhadrak	Integrated crop management in flood prone areas
Bhadrak	Promoting pond based integrated fish farming and scientific pisciculture
Bhadrak	Promoting INM and IPDM approach in field and horticultural crops
Bhadrak	Soil health management and management of problematic soil
Bhadrak	Promoting Alternate livelihood options for resource poor farm families
Bhadrak	Gender mainstreaming in agriculture and ailed sector
Bhadrak	Promotion of agro-forestry models in the district

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

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
Bhadrak	Low yield and income from Paddy.	FGD, Problem analysis	Khirasahi of Bhadrak block, Suanapada of Bonth block
Bhadrak	Low yield and income from vegetables.	FGD, Problem analysis	Rajualibindha & Khirasahi of Bhadrak, Suanapada of Bonth, Hatiapada of Dhamnagar block
Bhadrak	Low yield and income from pisciculture	PRA and FGD	Sendhatira and Khirasahi
Bhadrak	Low household income sources for resource poor farm families	FGD, Problem analysis	Sendhatira, Rajualibindha, Khirasahi, Hatiapada and Suanapada

2. On Farm Testing

2.1 Information about OFT

KVK name	Year/Season	Problem diagnose	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situations	Title of OFT	No. of trials	Results (with parameter)		Net Returns (Rs./ha)		Recommendations
									Farmer practice T1	Rec. Tech T2	T1	T2	
Bhadrak	Rabi, 2012-13	Low yield of Greengram due to Sulphur deficiency in soil.	Assessment	INM	Green gram	Alluvial, Irrigated, Midland	Assessment of sulphur application in green gram.	10	Seed yield 9.38q/ha	10.66 q/ha	15960	20154	Basal application of 25kgS/ha
Bhadrak	Rabi, 2012-13	Low yield of Sunflower due to Sulphur deficiency in soil.	Assessment	INM	Sunflower	Alluvial, Irrigated, Midland	Assessment of sulphur application in Sunflower.	10	Seed yield- 17.60q/ha	21.48q/ha	27620	40656	Basal application of 25kgS/ha
Bhadrak	Kharif, 2012	Low yield of rice due to imbalanced use of N.	Assessment	INM	Rice	Alluvial, Irrigated, Midland	Assessment of LCC (Leaf Color Chart) for Nitrogen Management in Paddy	10	Grain yield- 48.9 q/ha	50.3 q/ha	22320	23990	Use of LCC at Tillering & PI stage
Bhadrak	Rabi, 2012-13	Low yield in pointed gourd due to downy mildew	Assessment	IDM	Pointed gourd	Irrigated medium land	Assessment of thiophenate methyl and chlorothalonil for management of downy mildew in pointed gourd	5	133.2	156.4	115000	146000	Vine treatment and alternate application of thiophenate methyl & chlorothalonil
Bhadrak	Kharif, 2012	Low yield in rice due to sheath blight	Assessment	IDM	Rice	Rainfed Medium land	Assessment of IDM against sheath blight in rice	5	35.8	42.6	11200	17960	Seed treatment and Alternate application of thiophenate methyl and hexaconzole
Bhadrak	Rabi, 2012-13	Low yield in toria due to heavy incidence of aphid	Assessment	IPM	Toria	Rainfed medium land	Assessment of IPM strategy against mustard aphid	5	8.4	9.8	10200	14100	Alternate application of neem based pesticide and DDVP.
Bhadrak	Rabi, 2012-13	Low yield in green gram due to YMV	Assessment	IDM	Green gram	Irrigated medium land	Assessment of YMV management	5	7.26	9.14	13840	19460	Seed treatment with and

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KVK name	Year/ Season	Problem diagnose	Category of technology (Assessment/ Refinement)	Thematic Area	Crop/ enterprise	Farming Situations	Title of OFT	No. of trials	Results (with parameter)		Net Returns (Rs./ha)		Recommendations
									Farmer practice T1	Rec. Tech T2	T1	T2	
							strategies in Green gram						alternate application of thiomethoxam and acetamiprid
Bhadrak	Late kharif, 2012	Low yield in traditional onion cultivars	Assessment	Varietal Evaluation	Onion	Rice-vegetable	Assessment of Onion var. Bhima Super in late kharif	10	181.22	291.26	113320	191260	Onion variety Bhima Super is highly suitable for its bulb wt., colour and marketability.
Bhadrak	Rabi, 2012-13	Low yield in traditional Garlic cultivars	Assessment	Varietal Evaluation	Garlic	Rice-vegetable	Assessment of Garlic var. Jamuna Safed	10	91.32	118.42	59200	84380	Convinced with the yield, attractive clove size and pungency
Bhadrak	Rabi, 2012-13	Low yield in traditional Pointed gourd cultivars	Assessment	Varietal Evaluation	Pointed gourd	Rice-vegetable	Assessment of Pointed gourd var. Swarna Alaukik	10	112.2	144.5	94500	137600	
Bhadrak	Kharif, 2012	The production potential from traditional 3-species IMC culture is less	Assessment	Production and Management	Fish	Alluvial, Canal fed, Small to Medium tanks	Assessment of profitability and yield increase by introduction of medium carps along with traditional 3-species IMC culture.	6	18.3	18.8	71400	94200	Local demand & market price of medium carps are very high.
Bhadrak	Rabi, 2012-13	Phytoplankton bloom frequently crashes during winter due to absence of micronutrients (Zn, Mg, Mn, B, Mo) in pond water	Assessment	Integrated Nutrient Management	Fish	Alluvial, Canal fed, Small to Medium tanks	Assessment of efficacy of liquid micronutrients in sustaining phytoplankton bloom during winter.	6	21.7	23.8	90600	102400	Application of liquid micro-nutrients in prescribed dose maintains plankton bloom through out the winter period.

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KVK name	Year/ Season	Problem diagnose	Category of technology (Assessment/ Refinement)	Thematic Area	Crop/ enterprise	Farming Situations	Title of OFT	No. of trials	Results (with parameter)		Net Returns (Rs./ha)		Recommendations
									Farmer practice T1	Rec. Tech T2	T1	T2	
Bhadrak	Kharif, 2012-13	During monsoon water becomes more turbid in newly excavated tanks, hinders sunlight penetration in water, hampers plankton growth and fish yield	Assessment	Production and Management	Fish	Alluvial, Canal fed, Small to Medium tanks	Assessment of alum treatment in clearing water turbidity in newly excavated pisciculture tanks during monsoon season.	6	Yield- 17.6 q/ha	Yield- 18.7 q/ha	70800	78600	Treatment of alum effectively clears water turbidity in newly excavated nursery tanks.
Bhadrak	Rabi, 2012-13	Application of RCD during winter harbours more pathogens into water and increases susceptibility to fish disease outbreak.	Assessment	Integrated Disease Management	Fish	Alluvial, Canal fed, Small to Medium tanks	Assessment of efficacy of liquid organic manure (humic acid) as a substitute for raw cow dung (RCD) for pond manuring during winter.	6	Yield- 23.6q/ha	Yield- 26.6q/ha	96800	112800	Application of liquid humic acid is effective in production of zooplanktons in the ponds where basal manuring was done by RCD
Bhadrak	Rabi, 2012-13	Drudgery in manual threshing	Assessment	Drudgery reduction	Sunflower	Medium land ,irrigated	Assessment of Sunflower thresher	5	1.7kg/hr	8.5kg/hr	-	-	Mechanical threshing is better than manual threshing.
Bhadrak	Rabi, 2012-13	Drudgery due to manual stripping	Assessment	Drudgery reduction	groundnut	Up & Medium land irrigated	Assessment of Groundnut stripper	5	4kg/hr	25kg/hr	-	-	Though stripping efficiency of Groundnut stripper is 95% still than more effective than manual and reducing drudgery
Bhadrak	Kharif, 2012	Low yield at low temperature(15-21C)	Assessment	Mushroom cultivation	Mushroom	Backyard	Assessment of Oyster Mushroom Pleurotus eryngii	10	1.4kg/bag	1.6 kg/bag	31 /bag	39/bag	P.eryngii can be produced at low temperature

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KVK name	Year/ Season	Problem diagnose	Category of technology (Assessment/ Refinement)	Thematic Area	Crop/ enterprise	Farming Situations	Title of OFT	No. of trials	Results (with parameter)		Net Returns (Rs./ha)		Recommendations
									Farmer practice T1	Rec. Tech T2	T1	T2	
Bhadrak	Kharif , 2012	Huge amount of paddy straw used in paddy straw mushroom	Assessment	Mushroom cultivation	Mushroom	Backyard	Assessment of milk mushroom [Calocybe indica]	10	1.0kg/bed	1.3kg/bag	40 /bed	48 /bag	Biological efficiency is more(60%) and self life of milk mushroom is 6days in case of paddy straw is 6hrs

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	Demo	Check	FP (T1)	RP (T2)	Refined Practice, if any (T3)	FP (T1)	RP (T2)	Refined Practice , if any (T3)	FP (T1)	RP(T2)	Refined Practice, if any (T3)	FP (T1)	RP (T2)	Refined Practice, if any (T3)
Bhadrak	Assessment of sulphur application in green gram.	No. of pods/plant-Nos.	28.7	22.6	15200	16520		31160	36674		15960	20154		2.05	2.22	
Bhadrak	Assessment of sulphur application in Sunflower.	Head size (diameter) - cm	27.5	24.3	37500	38820		65120	79476		27620	40656		1.74	2.05	
Bhadrak	Assessment of LCC (Leaf Color Chart) for Nitrogen Management in Paddy	Dose of N as Urea-Kg/ha	120	145	29025	28825		51345	52815		22320	23990		1.77	1.83	
Bhadrak	Assessment of thiophenate methyl and chlorothalonil for management of downy mildew in pointed gourd	% infected plant	4.2	19.6	84800	88600		199800	234600		115000	146000		2.35	2.65	
Bhadrak	Assessment of IDM against sheath blight	Avg. No. of Infected	0.5	1.6	26400	26770		37600	44730		11200	17960		1.42	1.67	

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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	Demo	Check	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP(T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)
	in rice	hills/m ²														
Bhadrak	Assessment of IPM strategy against mustard aphid	Av. No. of Aphids/10 cm twig	3.2	15.6	15000	15300		25200	29400		10200	14100		1.68	1.92	
Bhadrak	Assessment of YMV management strategies in Green gram	% infected plant	3.4	14.6	15200	17100		29040	36560		13840	19460		1.91	2.14	
Bhadrak	Assessment of Onion var. Bhima Super in late kharif	Av. Bulb weight (g)	126	78	67900	100000	-	181220	291260	-	113320	191260	-	2.66	2.91	-
Bhadrak	Assessment of Garlic var. Yamuna Safed-1	Av. Bulb weight (g)	29.7	19.4	59200	63800	-	118300	148180	-	59,200	84380	-	2.0	2.32	-
Bhadrak	Assessment of Pointed gourd var. Swarna Alaukik	Av. fruit weight (g)	32.5	23.7	81500	118935	-	176000	309230	-	94500	190295	-	2.1	2.6	-
Bhadrak	Assessment of profitability and yield increase by introduction of medium carps along with traditional 3-species IMC culture.	Yield-q/ha	18.3	18.8	75000	75000	-	146400	169200	-	71400	94200	-	1.95	2.25	
Bhadrak	Assessment of efficacy of liquid micronutrients in sustaining phytoplankton bloom during winter.	Avg. Plankton density in ml/ 50 litre water	2.3	1.8	83000	88000	-	173600	190400	-	90600	102400	-	2.0	2.16	
Bhadrak	Assessment of alum treatment in clearing water turbidity in newly excavated pisciculture tanks during monsoon season.	Water Transparency ,(cm)	32	21	70000	71000	-	140800	149600	-	70800	78600	-	2.0	2.1	

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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	Demo	Check	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP(T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)
Bhadrak	Assessment of efficacy of liquid organic manure (humic acid) as a substitute for raw cow dung (RCD) for pond manuring during winter.	Avg. disease incidence (%)	3	20	92000	100000	-	188800	212800	-	96800	112800	-	2.05	2.13	
Bhadrak	Assessment of Sunflower thresher	Threshing (kg)/hr	8.5kg/hr	1.7kg/hr			-	-	-	-	-	-	-	-	-	-
Bhadrak	Assessment of Groundnut stripper	Stripping (kg)/hr	25kg/hr	4kg/hr			-	-	-	-	-	-	-	-	-	-
Bhadrak	Assessment of Oyster Mushroom <i>Pleurotus eryngii</i>	Yield /bag, (kg)	1.6kg/bag	1.4kg/bag	25/bag	25/bag	-	56/bag	64/bag	-	31/bag	39/bag	-	1.24	1.56	-
Bhadrak	Assessment of milk mushroom [<i>Calocybe indica</i>]	Biological efficiency (%)	72	10	40/bed	30/bag	-	80/bed	75/bag	-	40/bed	45/bag	-	2.0	2.5	-

2.3 Feedback from KVK to Research System

Name of KVK	Feedback
Bhadrak	Leaf colour chart should be standardized for different rice varieties
Bhadrak	The bulb size should be of marketable size for which “Bhima Super” can be popularized among the customers & farming community
Bhadrak	Convinced with the yield, attractive clove size and pungency
Bhadrak	This IDM strategy significantly reduced the disease incidence and enhanced the yield. However, the incidence of rootknot nematode is assuming serious significance and its deliberate management requires priority attention
Bhadrak	Development of suitable IDM module against rice sheath blight with particular reference to new generation fungicide.
Bhadrak	Timely sowing is highly essential in managing the aphid incidence.
Bhadrak	Varieties suitable to summer season with good tolerance or resistance may be developed

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Bhadrak	Availability of seeds of medium carps is scarce
Bhadrak	Application of micronutrients just after usual manuring gives better result than application of micronutrients alone
Bhadrak	Application of alum clears water turbidity effectively but simultaneously it decreases alkalinity and water pH. Therefore, usual liming should be carried out first & alkalinity and water pH should be calibrated prior to application of alum.
Bhadrak	Application of liquid organic manure (commercial humic acid) gives best result when RCD was applied earlier months
Bhadrak	Milk mushroom can be cultivated as a alternative crop variety, but cropping period is too late.
Bhadrak	Mechanization in agriculture should be required for farm women for increasing work efficiency and reducing drudgery
Bhadrak	Government should provide drudgery reducing machine for farmwomen for different crop harvesting with minimum price

3. Achievements of Frontline Demonstrations

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
Bhadrak	Jute	INM	INM in Jute	Field day, Training	10	50	25
Bhadrak	Rice	IPM	Integrated Management of stem borer and case worm	Field day, Radio talk, publication in KVK and ATMA News letter, training to progressive farmers and VAWs and sending message through KMAS	72	910	610
Bhadrak	Rice	IDM	Integrated Management of brown spot and blast	Field day, Radio talk, publication in KVK and ATMA News letter, training to progressive farmers and VAWs and sending message through KMAS	58	670	480
Bhadrak	Coconut	IPM	Management of Rhinoceros beetle	Field day, publication in KVK and ATMA News letter, training to progressive farmers and s and sending message through KMAS	21	180	48
Bhadrak	Brinjal	IPM	Management of Brinjal shoot and fruit borer	Field day, Radio talk, publication in KVK and ATMA News letter, training to progressive farmers and VAWs and sending message through KMAS	38	310	92

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Bhadrak	Rice	Integrated Nutrient Management	Sulphur application in Paddy.	Awareness programme, Large scale demonstration.	20	50	88
Bhadrak	Fish	Disease of Management	Management of EUS in fish by application of CIFAX	Field day, Training. Booklets, Media coverage	230	2540	360
Bhadrak	Grass carps	Weed Management	Biological weed control by using grass carps	Field day, Training. Booklets, Media coverage	137	402	275
Bhadrak	Duckery	Production and Management	Introduction of duckery in pond based farming system	Field day, Training. Booklets, Media coverage	38	168	52.2
Bhadrak	Pond based farming system	Integrated crop management	Enterprise combination and proper utilization of pond bund	Popular article, mass media	32	48	27.4
Bhadrak	Paddy	Drudgery	Assessment of Pedal operated paddy thresher	Threshing of paddy with Pedal operated paddy thresher	1	5	-
Bhadrak	Vegetable	Drudgery	Use of wheel finger weeder	Weeding by wheel finger weeder	2	5	-
Bhadrak	Mushroom	Income generation(Alternative feeding material)	Production of paddy straw with alternative feeding material(Chuni)	Pulse bran(chuni) is used as feeding material for production of paddy straw mushroom	5	10	10bed
Bhadrak	Mushroom	Income generating (Alternative substrate)	Paddy straw mushroom production with threshed straw	Threshed straw is used as for production of paddy straw mushroom	2	10	10bed

3.2 Details of FLDs implemented

KVK Name	Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety/Technology/ Enterprises	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Bhadrak	INM	Jute	Kharif, 2012	Demonstration on INM in Jute	1.0	Balabhadra	22.2	19.4	14.43	1			9	10
Bhadrak	INM	Paddy	Kharif, 2012	Performance of Boron in Paddy.	2.0	Swarna	45.8	40.5	13.08	1			9	10
Bhadrak	Weed management	Paddy	Kharif, 2012	Performance of CuSO4 for controlling green algae in paddy	1.0	Swarna	45.1	38.6	16.84	3			7	10
Bhadrak	INM	Tomato	Rabi, 2012-13	Performance of Biofertilizer application in Tomato.	1.0	Jessica	482.8	428.4	12.70	0	0	10	0	10

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KVK Name	Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety/Technology/ Enterprises	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Bhadrak	INM	Chilli	Rabi, 2012-13	Performance of Biofertilizer application in Chilli.	1.0	Agnirekha	125.1	112.2	11.49	2	0	8	0	10
Bhadrak	IPM	Rice	Kharif, 2012-13	Performance of IPM strategies for Rice leaf folder management	2.0	Swarna	47.5	42.3	12.29	0	0	2	8	10
Bhadrak	IPM	Rice	Kharif 2012	Performance buprofezin and thiomethoxam in BPH management of rice	2.0	Pratikshya	49.2	41.7	17.98	0	0	4	6	10
Bhadrak	IDM	Colocassia	Kharif 2012	Performance of metalaxyl and mancozeb for taro leaf blight disease management	1.0	Muktakesi	160.4	137.8	16.4	2	0	3	5	10
Bhadrak	IPM	Cabbage	Rabi, 2012-13	IPM strategies for Spodoptera management in cabbage	0.4	NS 22	278.8	232.6	19.86	3	0	0	2	5
Bhadrak	Varietal evaluation	Banana	Kharif, 2012	Performance of tissue culture banana var. Bantala	0.2	Bantala	-	-	-	0	1	5	4	10
Bhadrak	ICM	Pumpkin	Rabi, 2012-13	Performance of ethrel application in Pumpkin	0.4	Guamala	266.26	222.79	16.32	9	0	1	0	10
Bhadrak	Nutrition Management	Composite Pisciculture	Kharif, 2012	Performance of slow sinking crumble feed with low FCR in fish fry to fingerling rearing tanks.	2.0	IMC and Chinese carps	30.28	20.30	49.16	2	-	1	-	3
Bhadrak	Production and Management	Composite Pisciculture	Kharif, 2012	Performance of Oxidizing agent KMnO4 in mitigating low dissolve oxygen condition in pisciculture tanks.	4.0	IMC and Chinese carps	21.8	20.3	7.39	2	-	1	2	5
Bhadrak	Production and Management	Composite Pisciculture	Rabi, 2012-13	Performance of Geolilte as pond bottom sludge amelioration during winter in carp culture	2.0	IMC and Chinese carps	21.9	19.2	14.0	1	-	3	-	4

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KVK Name	Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety/Technology/ Enterprises	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Bhadrak	Integrated Disease Management	Composite Pisciculture	Rabi, 2012-13	Performance of synthetic pyrethroid (Cypermethrin 10% EC) in controlling fish lice infestation in pisciculture tanks	4.0	IMC and Chinese carps	22.0	17.3	27.1	-	-	4	1	5
Bhadrak	Drudgery reduction	Paddy	Rabi, 2012-13	Performance of Pedal operated paddy thresher	5nos	Drudgery	22kg/hr	35kg/hr	37.14	-	5	-	-	5
Bhadrak	Drudgery reduction	Vegetable	Rabi, 2012-13	Performance of wheel finger weeder in vegetables	5nos	vegetable	35man days/ac	14man days /ac	-150.00	-	-	-	5	5
Bhadrak	Mushroom cultivation & Small Scale income generating enterprises	Mushroom	Summer & Kharif 2012	Performance of pulse bran (chunni) in production of paddy straw mushroom as alternative feeding material	100 beds	Volvariella volvaceae	1.0 kg /bed	0.95 kg /bed	-5.26	-	-	3	7	10
Bhadrak	Mushroom cultivation & Small Scale income generating enterprises	Mushroom	Summer & Kharif 2012	Performance of threshed straw as substrate in Paddy straw mushroom production	100 beds	Volvariella volvaceae	1.0 kg /bed	0.9 kg /bed	-11.11	-	-	2	8	10

3.3 Economic Impact of FLD

KVK Name	Name of Crop/ Enterprise	Technology demonstrated	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	Demo	Check	Demo	Check	Demo	Check	Demo	Check	Demo	Local Check
Bhadrak	Jute	Demonstration on INM in Jute	Fibre yield-q/ha	22.2	19.4	27200	25800	37740	32980	10540	7180	1.38	1.27
Bhadrak	Paddy	Performance of Boron in Paddy.	No. of Chaffs per panicle-Nos.	5.4	18.2	25245	24745	48090	42525	22845	17780	1.90	1.72

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KVK Name	Name of Crop/Enterprise	Technology demonstrated	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	Demo	Check	Demo	Check	Demo	Check	Demo	Check	Demo	Local Check
Bhadrak	Paddy	Performance of CuSO4 for controlling green algae in paddy	No. of EBT/hill-Nos	13.2	9.4	31825	29325	56375	48250	24550	18925	1.77	1.65
Bhadrak	Tomato	Performance of Biofertilizer application in Tomato.	No of fruits/plant-Nos.	102.4	90.2	103645	102900	241400	214200	137755	111300	2.33	2.08
Bhadrak	Chilli	Performance of Biofertilizer application in Chilli.	No of fruits/plant-Nos.	252.6	238.4	159445	158700	375300	336600	215855	177900	2.35	2.12
Bhadrak	Rice	Performance of IPM strategies for Rice leaf folder management	Average no. of larvae/hill	0.12	0.68	28900	27700	49875	44415	20975	16715	1.72	1.60
Bhadrak	Rice	Performance buprofezin and thiomethoxam in BPH management of rice	Average no. of BPH/hill	3.8	15.4	29200	27400	51660	43785	22460	16385	1.76	1.59
Bhadrak	Colocassia	Performance of metalaxyl and mancozeb for taro leaf blight disease management	No. of infected plants/m ²	0.3	2.2	52.600	50700	128320	110240	75720	59540	2.44	2.17
Bhadrak	Cabbage	IPM strategies for Spodoptera management in cabbage	Av. Larvae/plant	0.48	1.84	49800	48900	139400	116300	89600	67400	2.79	2.37
Bhadrak	Banana	Performance of tissue culture banana var. Bantala	-	-	-	-	-	-	-	-	-	-	-
Bhadrak	Pumpkin	Performance of ethrel application in Pumpkin	No. of fruit /vine	9	4	53600	52840	133130	111395	79530	58555	2.49	2.07
Bhadrak	Composite Pisciculture	Performance of slow sinking crumble feed with low FCR in fish fry to fingerling rearing tanks.	FCR	1.46	2.74	148500	123400	302800	203000	154300	79600	2.04	1.64
Bhadrak	Composite Pisciculture	Performance of Oxidizing agent KMnO ₄ in mitigating low dissolve oxygen condition in pisciculture tanks.	Avg. D.O. after treatment (ppm)	5	2.5	82000	80000	174400	162400	92400	82400	2.1	2.0
Bhadrak	Composite Pisciculture	Performance of Geolite as pond bottom sludge amelioration during winter in carp culture	Soil pH	6.7	6.2	95000	90000	175200	153600	80200	63600	1.84	1.7
Bhadrak	Composite Pisciculture	Performance of synthetic pyrethroid (Cypermethrin 10% EC) in controlling fish lice infestation in pisciculture tanks	Argulosis incidence (%)	5	30	82000	70000	176000	138400	94000	68400	2.1	1.9

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KVK Name	Name of Crop/ Enterprise	Technology demonstrated	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	Demo	Check	Demo	Check	Demo	Check	Demo	Check	Demo	Local Check
Bhadrak	Paddy	Performance of Pedal operated paddy thresher	Threshing(Kg)/hrs	22	35	-	-	-	-	-	-	-	-
Bhadrak	Vegetable	Performance of wheel finger weeder in vegetables	Man days /Ac	35	14	4416	1704	-	-	-	-	-	-
Bhadrak	Mushroom	Performance of pulse bran (chunni) in production of paddy straw mushroom as alternative feeding material	Yield kg/bed	1.0	0.9	40	35	80	76	40	41	2.0	2.1
Bhadrak	Mushroom	Performance of threshed straw as substrate in Paddy straw mushroom production	Yield kg/bed	1.0	0.9	40	32	80	72	40	40	2.0	2.2

3.4 Feedback of the Farmers

Name of KVK	Feedback
Bhadrak	Easy availability of good quality powder form of biofertilizer is a constraint.
Bhadrak	Boron application is very successful for reducing chaffyness in paddy.
Bhadrak	CuSO ₄ is found to be very effective for controlling Green algae problem in paddy.
Bhadrak	This IPM strategy significantly reduced the insect pest incidence and increased the yield. The rope dragging technique is an easy and cost effective technology
Bhadrak	These two chemical pesticides effectively reduced the BPH population. Spider trap is a very new and no cost technology.
Bhadrak	The fungicide reduced the disease incidence, improved the plant health and increased the tuber yield.
Bhadrak	The IPM strategy effectively reduced the insect pest incidence and its damage
Bhadrak	Use of commercial slow sinking crumble feed in rearing tanks is cost-effective
Bhadrak	Application of KMnO ₄ @ 300g/Ac-m in single dose increases DO level of the pond from detrimental stage (Avg.2.5ppm) to optimum stage (Avg.5ppm) within 10 minutes
Bhadrak	Application of Geolite reduces disease incidence in fishes during winter by maintaining soil health at congenial level
Bhadrak	Application of cypermethrin 10%EC is a simple and effective method to check carp lice infestation
Bhadrak	Paddy straw mushroom production can be possible with available alternative feeding material like pulse with pulse bran(Chunni), but it cannot be available all the time in market
Bhadrak	Threshed straw can be used for mushroom production but fully threshed straw cannot give better production and little bit care taken for it.

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3.5 Training and Extension activities under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Bhadrak	Jute	Field days	-	-	-
Bhadrak		Farmers Training	-	-	-
Bhadrak		Media coverage	-	-	-
Bhadrak		Training for extension functionaries	-	-	-
Bhadrak	Paddy	Field day	-	-	-
Bhadrak		Farmers Training	-	-	-
Bhadrak		Media coverage	-	-	-
Bhadrak		Training for extension functionaries	-	-	-
Bhadrak	Paddy	Field days	-	-	-
Bhadrak		Farmers Training	-	-	-
Bhadrak		Media coverage	-	-	-
Bhadrak		Training for extension functionaries	-	-	-
Bhadrak	Tomato	Field days	1	50	
Bhadrak		Farmers Training	1	30	
Bhadrak		Media coverage	-	-	-
Bhadrak		Training for extension functionaries	-	-	-
Bhadrak	Chilli	Field days	1	50	
Bhadrak		Farmers Training	1	30	
Bhadrak		Media coverage	-	-	-
Bhadrak		Training for extension functionaries	-	-	-
Bhadrak	Rice	Field days	1	40	
Bhadrak		Farmers Training	1	20	
Bhadrak		Media coverage	-	-	-
Bhadrak		Training for extension functionaries	1	20	
Bhadrak	Rice	Field days	1	40	
Bhadrak		Farmers Training	1	20	
Bhadrak		Media coverage	-	-	-
Bhadrak		Training for extension functionaries	1	20	
Bhadrak	Colocassia	Field days	-	-	-
Bhadrak		Farmers Training	1	30	
Bhadrak		Media coverage			
Bhadrak		Training for extension functionaries	-	-	-
Bhadrak	Cabbage	Field days	1	40	
Bhadrak		Farmers Training	1	30	

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KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Bhadrak		Media coverage	-	-	-
Bhadrak		Training for extension functionaries	-	-	-
Bhadrak	Banana	Field days	-	-	-
Bhadrak		Farmers Training	-	-	-
Bhadrak		Media coverage	-	-	-
Bhadrak		Training for extension functionaries	-	-	-
Bhadrak	Pumpkin	Field days	1	30	
Bhadrak		Farmers Training	-	-	
Bhadrak		Media coverage	-	-	
Bhadrak		Training for extension functionaries	-	-	
Bhadrak	Composite Pisciculture	Field days	1	40	
Bhadrak		Farmers Training	1	30	
Bhadrak		Media coverage	1	-	TV programme
Bhadrak		Training for extension functionaries	1	15	
Bhadrak		Training for extension functionaries			
Bhadrak		Farmers Training	1	25	Value addition of Paddy
Bhadrak		Media coverage			
Bhadrak		Training for extension functionaries			
Bhadrak	Vegetable	Field days			
Bhadrak		Farmers Training	2	50	Value addition of vegetables and dehydrated products of vegetables
Bhadrak		Media coverage			
Bhadrak		Training for extension functionaries			
Bhadrak	Mushroom	Field days	2	40	
Bhadrak		Farmers Training	3	75	
Bhadrak		Media coverage	-	-	-
Bhadrak		Training for extension functionaries	-	-	-
Bhadrak	Mushroom	Field days	-	-	-
Bhadrak		Farmers Training	-	-	-
Bhadrak		Media coverage	-	-	-
Bhadrak		Training for extension functionaries	-	-	-

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 participant involved
Bhadrak	Farmers	PRA tools like problem identification and prioritization, group discussion, interaction	16.4.2012, Madhusudanpur	20
Bhadrak	In-service	Constraint analysis, participants feed back.	28.4.2012, DDA conference hall	30
Bhadrak	Farmers	PRA tools like problem identification and prioritization, group discussion, interaction	30.4.2012, Suanapada	20
Bhadrak	Rural Youth	PRA tools like problem identification and prioritization, group discussion, interaction	24.5.12, Gopali, Khirasahi	40
Bhadrak	Rural Youth	PRA tools like problem identification and prioritization, group discussion, interaction	6.9.2012, Tagira	30
Bhadrak	Farmers	Technology gap analysis, constraints in adoption of technology	11.12.2012, Sree Ganga, Hatiapada, Rajaulibindha	50
Bhadrak	In-service	Training need assessment and feed back collection	7.3.2013, KVK conference hall	20
Bhadrak	Rural Youth	PRA Tools, Group Discussion, Personal contact: Seeing that low income from fish is due to non-adoption of multiple cropping pattern of pisciculture	28.08.11, KVK campus	30
Bhadrak	Farmers	PRA Tools, Group Discussion, Personal contact: Seeing that poor management practices for fish diseases and its control.	22.09.11, KVK Campus	30
Bhadrak	Farmers	PRA Tools, Group Discussion, Personal contact: Seeing that farmers to-farmers extension is virtually nil	23.09.12 and 25.09.12 KVK Campus	25
Bhadrak	Farmers	PRA Tools, Group Discussion, Personal contact: Seeing that farmers are unaware about value addition of fish	24.01.13, KVK, campus	30
Bhadrak	Farmers	PRA Tools, Group Discussion, Personal contact: Seeing that scientific cultivation of freshwater prawn is not existed in these areas	25.02..13 at Thaila	30
Bhadrak	Rural Youth	PRA Tools, Group Discussion, Personal contact: Seeing that fish-cum-duckery integration is not available in these areas.	26.02.13 at Kshirasahi	25
Bhadrak	Farmers	PRA Tools, Group Discussion, Personal contact: Seeing that farmers are not adopting ornamental fish farming as a backyard vocation..	09.03.13 at Patuli	30
Bhadrak	Farmers	PRA Tools, Group Discussion, Personal contact: Seeing that lack of knowledge on Pond preparation & Pre-stocking management for scientific pisciculture.	31.05.12, Baulapal	30
Bhadrak	Farmers	PRA Tools, Group Discussion, Personal contact: Seeing that lack of knowledge on Post-stocking management for scientific pisciculture.	24.06.12 and 25.06.12 , Sendhatira	30
Bhadrak	Farmers	PRA Tools, Group Discussion, Personal contact: Seeing that lack of knowledge on Integrated fish farming.	22.07.12 and 23.07.12, Patuli	25

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Bhadrak	Farmers	PRA Tools, Group Discussion, Personal contact: Seeing that lack of knowledge on Integration of horticulture with fish farming.	29.07.12,, KVK Campus	30
Bhadrak	Farmers	PRA Tools, Group Discussion, Personal contact: Seeing that lack of knowledge on multiple cropping pattern of fish farming.	30.07.12 and 31.07.12, KVK Campus	30
Bhadrak	Rural youth	PRA Tools, Group Discussion, Personal contact: Seeing that IMC hatchery operation and fish production is an IGA for unemployed rural youth.	28.09.12 to 02.10.12 KVK Campus	10

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
Thematic Areas for Training	
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	Capacity Building 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	Theme code	Title of the Training	No. of Course	Duration in Days	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Bhadrak	FW	OFC	CRP	Management of direct sown Kharif Rice	1	1	15		15					
Bhadrak	RY	ONC	RYH	Seed Production techniques in rice.	1	2	20		10					
Bhadrak	FW	OFC	CRP	Weed management in jute	1	1	3	27						
Bhadrak	FW	OFC	CRP	Production technology for Sugarcane	1	1	30							
Bhadrak	FW	OFC	CRP	Weed Management in transplanted rice.	1	1	20		10					
Bhadrak	FW	OFC	CRP	Production technology for lowland rice	1	1	30							
Bhadrak	FW	OFC	CRP	Improved production technology of wheat	1	1	21		9					
Bhadrak	FW	ONC	CRP	Production technology for Mustard	1	1			30					
Bhadrak	FW	OFC	CRP	Production technology for Hybrid maize with special reference to INM	1	2	23		7					
Bhadrak	FW	OFC	CRP	Production technology for Sunflower	1	1	21		9					
Bhadrak	FW	ONC	CRP	Improved production technology of Green gram & Black gram	1	2	20		5					
Bhadrak	FW	OFC	SFM	Use of creek water for crop production	1	1	6		2				22	0
Bhadrak	FW	OFC	SFM	Micro & secondary nutrient application in rice	1	1	2		5				18	5
Bhadrak	FW	OFC	SFM	Use of Bio-fertilizers in vegetable crops	1	1	5		3				22	0
Bhadrak	FW	OFC	SFM	Use of micronutrients in vegetable crops	1	1		1	1				24	4
Bhadrak	FW	OFC	SFM	Soil and water testing for pisciculture	1	1		5		7			0	18
Bhadrak	FW	OFC	SFM	Management of salt affected soils.	1	1							30	0
Bhadrak	FW	OFC	SFM	Nutrient management in oilseed crops.	1	1	14		6				10	0
Bhadrak	FW	OFC	SFM	Nutrient management in pulse crops.	1	1	4		2				24	0
Bhadrak	FW	OFC	SFM	Composting of crop residues by improved methods.	1	1	3		8				15	4

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Name of KVK	Category	Training Type	Theme code	Title of the Training	No. of Course	Duration in Days	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Bhadrak	RY	ONC	RYH	Round the year Azolla production technology	1	2	6		5				14	0
Bhadrak	RY	ONC	RYH	BGA production technology	1	2	10		4				11	0
Bhadrak	IS	ONC	SFM	Maintenance of soil health & quality for sustainable crop production.	1	2	5		2		1		6	1
Bhadrak	IS	ONC	SFM	Site specific nutrient management	1	2	2	6	2		1		2	2
Bhadrak	FW	OFC	PLP	IPM in Jute	1	1							30	0
Bhadrak	FW	ONC	PLP	Seed treatment for minimizing disease incidence	1	1			6				18	6
Bhadrak	FW	OFC	PLP	Integrated insect Pest & Disease Management in Tuber Crops	1	2	5		13				12	0
Bhadrak	IS	ONC	PLP	Recent advances of IPM in field crops	1	1	4	2	5	2			7	0
Bhadrak	FW	OFC	PLP	Integrated Disease Management for Blast, Brown spot & Sheath blight in Rice.	1	1	4		18				8	0
Bhadrak	FW	OFC	PLP	Integrated Pest Management in rice.	1	2	8		0				12	0
Bhadrak	FW	OFC	PLP	Integrated Pest & Disease Management in Banana	1	1	4	9	1	4			5	7
Bhadrak	FW	OFC	PLP	IPDM in brinjal and tomato	1	2	8		3				19	0
Bhadrak	FW	OFC	PLP	Integrated Pest Management in Cole crops	1	1	14	4					10	2
Bhadrak	FW	OFC	PLP	Integrated Pest & Disease Management in Toria.	1	1	14	1	2				12	1
Bhadrak	FW	OFC	PLP	Integrated pest and disease management in coconut	1	1	5		12				12	1
Bhadrak	FW	OFC	PLP	Integrated Pest & Disease Management of in Sunflower.	1	1	8		6	1			13	2
Bhadrak	RY	ONC	OTH	Scientific Bee Keeping	1	2	6		3				6	0
Bhadrak	FW	OFC	PLP	Integrated Pest Management of Fruitfly in Cucurbits	1	1	3						20	7
Bhadrak	FW	OFC	PLP	Integrated Pest & Disease Management in green gram and black gram	1	1	7		11				11	1
Bhadrak	FW	OFC	HOV	Cultivation practices of papaya	1	1	9		16					0
Bhadrak	FW	OFC	HOS	Package of practices of turmeric & ginger production	1	1								23
Bhadrak	FW	OFC	HOS	Cultivation practices of onion in late kharif	1	1	9		5					11
Bhadrak	FW	OFC	HOF	Agro- techniques of tissue culture banana.	1	1	9							16
Bhadrak	FW	OFC	HOV	Cultivation practices of papaya	1	1	9		16					0

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Name of KVK	Category	Training Type	Theme code	Title of the Training	No. of Course	Duration in Days	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Bhadrak	FW	OFC	HOS	Package of practices of turmeric & ginger production	1	1				2				23
Bhadrak	FW	OFC	HOS	Cultivation practices of onion in late kharif	1	1	9		5					11
Bhadrak	FW	OFC	HOF	Agro- techniques of tissue culture banana.	1	1	9							16
Bhadrak	FW	OFC	HOF	Cultivation practices papaya	1	2	8							17
Bhadrak	RY	ONC	HOF	Plant Propagation techniques	1	2	3							12
Bhadrak	FW	ONC	HOF	Management of Fruit orchard	1	3	12		13					0
Bhadrak	FW	OFC	HOV	Package of practices for Tomato, Brinjal and Chilli	1	2	8		14					3
Bhadrak	FW	OFC	HOV	Package of practices of Cabbage, cauliflower and knol khol	1	1	12		13					0
Bhadrak	FW	OFC	HOV	Management of relay cropping system in vegetables crops.	1	1	17		8					0
Bhadrak	FW	OFC	HOV	Package of practices for Cucumber, Pumpkin, Bitter gourd and Pointed gourd cultivation	1	2	18		7					0
Bhadrak	RY	ONC	HOV	Seed Production technique in winter vegetables	1	3	2		13					0
Bhadrak	IS	ONC	HOV	Use of plant growth regulators in fruits & vegetables.	1	2	2		11					0
Bhadrak	FW	OFC	HOT	Production technology of Taro, Yam and Elephant foot yam, Taro and Yam	1	5	5		20					0
Bhadrak	FW	OFC	FIS	Pond preparation and pre-stocking management in pisciculture tanks	1	1	1		7				22	0
Bhadrak	FW	OFC	FIS	Post-stocking liming, manuring, Fertilisation and supplementary feeding in pisciculture tanks	1	1			3				27	0
Bhadrak	FW	ONC	FIS	Repeated stocking and repeated harvesting method of pisciculture	1	2		2		11				17
Bhadrak	FW	ONC	FIS	Integrated fish farming	1	2	3		5				17	
Bhadrak	FW	ONC	FIS	Package of practices for fish-cum-horticulture integration	1	2	2		3				20	
Bhadrak	FW	ONC	FIS	Year-round sustainable yearlings/ stunted fingerlings production techniques	1	2	17		6				2	
Bhadrak	RY	ONC	RYH	Quality Seed Production (Fry , Fingerlings, Stunted	1	3	9		4				12	

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Name of KVK	Category	Training Type	Theme code	Title of the Training	No. of Course	Duration in Days	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
				Fingerlings /yearlings) of Indian Major carps										
Bhadrak	FW	OFC	FIS	Backyard ornamental Fish farming	1	1	15		2				8	
Bhadrak	FW	ONC	FIS	Preparation of pickles from low cost marine fish	1	1	5		3				12	
Bhadrak	FW	ONC	FIS	Prophylaxis and Fish disease control in Pisciculture tanks	1	2	16						14	
Bhadrak	FW	OFC	FIS	Fish-cum-duck farming in small backyard tanks	1	1	2		1				21	6
Bhadrak	FW	OFC	FIS	Pond water, feed and disease management in fresh water prawn culture	1	1	2		9	1			17	1
Bhadrak	FW	ONC	FIS	Preparation of Pickles from low cost small penaeid prawns.	1	1	2		17				1	
Bhadrak	IS	ONC	EXP	Scientific yearling culture & multiple cropping pattern of pisciculture	1	2	7		2		1		5	
Bhadrak	IS	ONC	EXP	Sustainable brackish water aqua farming	1	2	3		1				11	
Bhadrak	RY	OFC	WOE	Production technology of milk mushroom	1	2	5		4				13	3
Bhadrak	FW	OFC	WOE	Production technology of Paddy straw Mushroom	1	2		18		1			0	6
Bhadrak	FW	OFC	WOE	Value addition of Seasonal Fruits	1	2		3		1			0	21
Bhadrak	FW	OFC	WOE	Management of stored grain pest.	1	1		6		5			0	14
Bhadrak	IS	ONC	WOE	Entrepreneurship development among farm women.	1	4		3		7			0	10
Bhadrak	FW	OFC	WOE	Use of drudgery reduction technology in home management.	1	1		12					0	13
Bhadrak	RY	ONC	WOE	Paddy craft	1	2		8		4			0	8
Bhadrak	RY	ONC	WOE	Commercial Mushroom production	1	5	5		6				13	1
Bhadrak	FW	OFC	WOE	Nursery raising for backyard nutritional garden.	1	2		12					0	13
Bhadrak	RY	ONC	WOE	Production of Paddy straw mushroom under low cost poly house in winter.	1	1	13		1				7	4
Bhadrak	RY	OFC	WOE	Sorting , Grading, Packaging of Mushroom	1	1	11		3				7	4
Bhadrak	FW	OFC	WOE	Production technology of Oyster Mushroom	1	2				5			0	20
Bhadrak	FW	OFC	WOE	Use of Drudgery reduction implements by farmwomen	1	1				16		2	0	7

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Name of KVK	Category	Training Type	Theme code	Title of the Training	No. of Course	Duration in Days	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Bhadrak	RY	ONC	WOE	Value addition of Mushroom	1	2	5	3	1	2			8	6
Bhadrak	FW	OFC	WOE	Value addition of Seasonal Vegetables	1	2		11		4		1	0	9
Bhadrak	FW	OFC	WOE	Seed storage techniques	1	1		1				1	0	23

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						
					SC		ST		Others		
					M	F	M	F	M	F	
Bhadrak	Commercial Mushroom Production	Mushroom	Alternate livelihood option	5	6	0	0	0	0	18	1
Bhadrak	Bee-keeping as profitable enterprise	Bee-keeping	Alternate livelihood option	2	3	-	-	-	-	12	-
Bhadrak	Year-round sustainable yearlings/ stunted fingerlings production techniques	Fish seed production	Alternate livelihood option	2	6	-	-	-	-	2	-
Bhadrak	Quality Seed Production (Fry , Fingerlings, Stunted Fingerlings /yearlings) of Indian Major carps	Fish seed production	Alternate livelihood option	3	4	-	-	-	-	12	-

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	
Bhadrak	Techniques of Vermiculture and Vermicomposting	Backyard	25	54	-
Bhadrak	Bee-keeping as profitable enterprise	Bee-keeping	7	7	
Bhadrak					

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.)
							Others		SC		ST			
							M	F	M	F	M	F		
Bhadrak	-	-	-	-	-	-	-	-	-	-	-	-	-	

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.)
							Others		SC		ST			
							M	F	M	F	M	F		
Bhadrak														

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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	
Bhadrak	Integrated insect Pest & Disease Management in Tuber Crops	30	32	68	128.4	146.8	102720	117440	1. Area expanded (ha)-22 ha 2. No. of farmers adopted (no.)- 46 3. % change in knowledge =112.5 %, Production= 14.33 % & Income= 14.33 %
Bhadrak	Integrated Disease Management for Blast, Brown spot & Sheath blight in Rice	30	35	80	36.2	41.09	36200	41090	1. Area expanded (ha)-46 ha 2. No. of farmers adopted (no.)- 32 3. % change in knowledge = 128.5 %, Production= 13.5 & Income=13.5
Bhadrak	Integrated Pest Management in rice	30	35	75	36.89	42.29	36890	42290	1. Area expanded (ha)-52 ha 2. No. of farmers adopted (no.)- 45 % change in knowledge = 114.2 % ,Production= 14.8 & Income = 14.8
Bhadrak	IPDM in brinjal and tomato	30	25	75	261	290	130500	145000	4. Area expanded (ha)-44 ha 5. No. of farmers adopted (no.)- 52 6. % change in knowledge =200 %, Production= 28.9 & Income= 28.9
Bhadrak	Integrated Pest Management in Cole crops	30	28	62	238.7	267.8	119350	133900	7. Area expanded (ha)-34 ha 8. No. of farmers adopted (no.)- 48 % change in knowledge =121.4 %, Production= 12.1 % & Income= 12.1 %
Bhadrak	Integrated Pest & Disease Management in Toria.	30	24	63	8.6	10.2	25800	30600	9. Area expanded (ha)- 38 ha 10. No. of farmers adopted (no.)- 72 % change in knowledge =162.5 %, Production= 18.6 & Income= 18.6 %
Bhadrak	Use of creek water for crop production	30	25	75	17.5	22.3	64750	82510	1. Area expanded (ha)-30ha 2. No. of farmers adopted (no.)- 22 3. % change in knowledge = 200%, Production= 27.4% & Income = 27.4%
Bhadrak	Micro & secondary nutrient application in rice	30	15	70	40.5	45.8	50625	57250	1. Area expanded (ha)-150ha 2. No. of farmers adopted (no.)-30 3. % change in knowledge =366.7, Production =13.08& Income=13.08
Bhadrak	Algal Bio-fertilizer Production Technology	25	30	85	42	48	52500	60000	1. Area expanded (ha)-70ha 2. No. of farmers adopted (no.)- 26 3. % change in knowledge = 183.3% ,Production= 14.28& Income = 14.28

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Bhadrak	Nutrient management in pulse crops.	30	35	75	9.8	11.25	34300	39375	1. Area expanded (ha)-50ha 2. No. of farmers adopted (no.) 27 3. % change in knowledge = 114.3 %, Production= 14.79 % & Income = 14.79 %
Bhadrak	Nutrient management in oilseed crops.	30	30	80	20	23.5	74000	86950	1. Area expanded (ha)-100ha 2. No. of farmers adopted (no.)- 28 3. % change in knowledge = 166.6 %, Production= 17.5 & Income = 17.5
Bhadrak	Use of Bio-fertilizers in vegetable crops	30	20	65	180	220	90000	110000	1. Area expanded (ha)-40ha 2. No. of farmers adopted (no.)- 24 3. % change in knowledge = 225 %, Production= 22.2 & Income= 22.2
Bhadrak	Soil and Water testing for Pisciculture	30	30	65	15	20	150000	200000	1. Area expanded (ha)-20ha 2. No. of farmers adopted (no.)-25 3. % change in knowledge = 116.7 %, Production= 33.3 & Income= 33.3
Bhadrak	Paddy straw mushroom cultivation	25	25	70	7.8	16.4	468000	984000	1. Area expanded : with 1,70,100bed 2. No. of farmers adopted (no.): 12 farm women 3. % change in knowledge=180, Production=150 & Income=150
Bhadrak	Pond preparation and pre-stocking management in pisciculture tanks	30	50	80	12	16	96000	128000	1. Area expanded (ha): 500 ha 2. No. of farmers adopted (no.): 465 3. % change in knowledge=60, Production=33 & Income=33
Bhadrak	Post-stocking liming, manuring, Fertilisation and supplementary feeding in pisciculture tanks	30	35	70	12	18	96000	144000	1. Area expanded (ha): 450 ha 2. No. of farmers adopted (no.): 392 3. % change in knowledge=100, Production=50 & Income=50
Bhadrak	Repeated stocking and repeated harvesting method of pisciculture	30	25	70	13	30	104000	240000	1. Area expanded (ha): 400 ha 2. No. of farmers adopted (no.): 302 3. % change in knowledge=180, Production=131 & Income=131
Bhadrak	Integrated fish farming	25	40	70	12	20	96000	160000	1. Area expanded (ha): 350 ha 2. No. of farmers adopted (no.):290 3. % change in knowledge=75, Production=66 & Income=66

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Bhadrak	Package of practices for fish-cum-horticulture integration	25	40	75	12	18	96000	144000	1. Area expanded (ha): 450 ha 2. No. of farmers adopted (no.):406 3. % change in knowledge=88, Production=50 & Income=50
Bhadrak	Year-round sustainable yearlings/ stunted fingerlings production techniques	25	20	70	15	34	150000	340000	1. Area expanded (ha): 150 ha 2. No. of farmers adopted (no.): 72 3. % change in knowledge=200, Production=127 & Income=127
Bhadrak	Quality Seed Production (Fry , Fingerlings, Stunted Fingerlings /yearlings) of Indian Major carps	25	25	70	14	28	140000	280000	1. Area expanded (ha): 300 ha 2. No. of farmers adopted (no.): 270 3. % change in knowledge=180, Production=100 & Income=100
Bhadrak	Prophylaxis and Fish disease control in Pisciculture tanks	30	30	60	12	20	104000	240000	1. Area expanded (ha): 400 ha 2. No. of farmers adopted (no.): 365 3. % change in knowledge=100, Production=67 & Income=67
Bhadrak	Fish-cum-duck farming in small backyard tanks	30	30	70	12	24	104000	192000	1. Area expanded (ha): 40 ha 2. No. of farmers adopted (no.):1 10 3. % change in knowledge=133, Production=100 & Income=100
Bhadrak	Pond water, feed and disease management in fresh water prawn culture	30	25	70	12	26	104000	208000	1. Area expanded (ha): 100 ha 2. No. of farmers adopted (no.): 163 3. % change in knowledge=180, Production=117 & Income=117
Bhadrak	Scientific yearling culture & multiple cropping pattern of pisciculture	15	30	70	13	30	104000	240000	1. Area expanded (ha): 400 ha 2. No. of farmers adopted (no.): 302 3. % change in knowledge=133, Production=131 & Income=131
Bhadrak	Sustainable brackish water aqua farming	15	40	70	16	18	320000	360000	1. Area expanded (ha): 1200 ha 2. No. of farmers adopted (no.): 1570 3. % change in knowledge=75, Production=12.5 & Income=12.5

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			
Bhadrak	Field Day	25	11	310	68	60	8	2	2	FLD on Tomato and Chilli, FLD(Oilseeds &Pulses), Disseminate the technology	Performance of biofertilizer application in Tomato and Chilli, Paddy straw mushroom production with threshed straw	Fruiting stage, Package demonstration on Toria, Sunflower & Green gram, Harvesting stage
Bhadrak	Kisan Mela	2	1	140	20	25	10	5				
Bhadrak	Kisan Ghosthi	4	1	2	21	-	7	0	0	To make aware on seasonal management	Scientific bee keeping	-
Bhadrak	Exhibition	2	1	145	35	-	-	20	-			
Bhadrak	Film Show	30	30	335	40	159	61	15	0			
Bhadrak	Method Demonstrations	35	40	273	77	78	22			Practical demonstration of technology	Seed treatment , preparation of poison bait, installation of pheromone trap, yellow sticky trap	Crop growth satge
Bhadrak	Farmers Seminar	1	1	28	-	2	-	-	-	Interactive discussion on specific problems	Pest management in summer paddy	Crop growth stage
Bhadrak	Workshop	1										
Bhadrak	Group meetings	8	8	156	64	24	6	5	-	Discussion on particular crop/ enterprise	Vegetable farming, sunflower production, bee keeping	Crop growth stage
Bhadrak	Lectures delivered as resource persons	-	45	1258	231	129	68	104	10	Training to farmers, extension personnel (Krushak Sathi), SHG members, Training and capacity building of farmers,farm women, SHG members, Extension officials	IPM, ISOPOM(oilseeds), Biofertilizers , Micronutrients ,Fertilizer mgt.,Vermicomposting,Or ganic farming,SRI	Various crop stages
Bhadrak	Newspaper coverage	5	5	-	-	-	-	-	-	-	-	-
Bhadrak	Radio talks	-	5							Dissemination of technology through Mass media , For awaring to farming community	IPM in rice and vegetables , Kharif phasalare samanwita khadya sara parichalana,Bilati dalaru jia khata prastuti,	
Bhadrak	TV talks	-	4	0	-	-	-	-	-	Dissemination of technology	Question –Answer	

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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			
										through Mass media , Krushak Mancha(DD)	programme on crop production,IPM	
Bhadrak	Popular Articles	17	5	0	Mass					For awaring to farming community	Odisha Review	
Bhadrak	Extension Literature	10	4	320	-	90	20					
Bhadrak	Farm Advisory Services	66	66	410	129	78	12					
Bhadrak	Scientific visit to farmers field	-	307	1344		488						
Bhadrak	Farmers Visit to KVK	160	593	462		160						
Bhadrak	Diagnostic Visits	40	40	212	78	85	25			Insect pest problem, iron toxicity, micro-nutrient deficiency		Crop growth
Bhadrak	Exposure Visits	2	2	55	5	-	-	-	-	-	-	-
Bhadrak	Ex-trainees Sammelan	2	2	36	11	13				To assess the knowledge adoption among the trainees and constraints in adoption	IPM, Pisciculture	
Bhadrak	Soil Health Camp	3	-	-	-	-	-	-	-	-	-	-
Bhadrak	Animal Health Camp	2	-	-	-	-	-	-	-	-	-	-
Bhadrak	Agri Mobile Clinic	-	-	-	-	-	-	-	-	-	-	-
Bhadrak	Soil Test Campaigns	4	5	112		38				Awareness on soil testing	Soil test based fertilizer application	0
Bhadrak	Farm Science Club conveners meet	1	1		40	-	-	-	-	Mushroom Cultivation		
Bhadrak	Self Help Group conveners meetings	2	2	-	38	-	12	-	-	Awareness on mushroom cultivation, beekeeping	-	-
Bhadrak	Mahila Mandals Conveners meetings	1	-	150	20	25	5	5				
Bhadrak	Celebration of important days (World Food Day)	1	1									
Bhadrak	Celebration of important days (Women in Agriculture Day)	1	1	10	70	1	9	8	2	Awareness among the farm women about role & responsibility of FW in agriculture	Participation of Women in Agriculture	-
Bhadrak	Celebration of important days (Akshaya Trutia)	1	-	-	-	-	-	-	-			

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

7.1 KVK Newsletters (SALANDI)

KVK Name	Date of start	Periodicity	Number of copies printed	Number of copies distributed
Bhadrak	October 2007	Half yearly	500	500
Bhadrak	7 th Issue	Half yearly	500	450
Bhadrak	8 th Issue	Half yearly	500	400
Bhadrak	9 th Issue	Half yearly	500	30

7.2 Literature developed/published

KVK Name	Date of start	Periodicity	Number of copies printed	Number of copies distributed
KVK Name	Type	Title	Author's name	Number of copies
Bhadrak	leaflet	Fish with duckery cultivation	Mr. A.P Nayak	500
Bhadrak	leaflet	Pointed gourd cultivation	Mr. B.N Sahoo	500
Bhadrak	leaflet	Soil Science	Mr. M.K Jena	500
Bhadrak	leaflet	Sesaonal management of Italian Bee keeping	Mr. U.S Nayak	500
Bhadrak	leaflet	Agro-forestry	Mr. G.Sihal	500

7.3 Details of Electronic Media Produced

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

8. Production and supply of Technological products

8.1 SEED production

KVK Name	Major group/class	Crop	Variety	Type of produce (for Seed produced type hear SD; For Planting Material type here PM)	Quantity	Unit for quantity of produces (qtl for SD and Nos for PM)	Value (Rs.)	Provided to No. of Farmers
Bhadrak	Cereals	Paddy	MTU-7029 (Swarna)	SD	140.0	qtl		
Bhadrak	Cereals	Paddy	Ranidhan	SD	70.0	qtl		
Bhadrak	Cereals	Paddy	Lalat	SD	33.0	qtl		
Bhadrak	Spawn	Mushroom	<i>V.volacea, V.diplasia, P.sajarcaju, P. florida, P.eaos, p.flabillatus</i>	SD	1046	Nos		100

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8.2 Planting Material production

KVK Name	Major group/class	Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
						Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Bhadrak	Seedlings	Papaya				Honey Dew	PM	161		1288	41
Bhadrak	Seedlings	Tomato				BT-10, U Raja	PM	3700		740	84
Bhadrak	Seedlings	Chilli				U. Ava, Agnirekha	PM	4700		950	132
Bhadrak	Seedlings	Cauliflower				Snow white	PM	1500		300	21
Bhadrak	Seedlings	Cabbage				Rane ball	PM	1500		300	15
Bhadrak	Seedlings	Onion				N-53	PM	3000		300	25

8.3 Production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

KVK Name	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
Bhadrak	BIOAGENTS				
Bhadrak	BIOFERTILIZERS	-	-	-	
Bhadrak	BIO PESTICIDES	-	-	-	

8.4 Livestock and fisheries production

KVK Name	Name of the animal / bird /aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
Bhadrak	Cattle						
Bhadrak	Buffalo	-	-	-			
Bhadrak	Sheep and Goat	-	-	-			
Bhadrak	Poultry	-	-	-			
Bhadrak	Fisheries	IMC	Table size Fish	280kg			
Bhadrak	Fisheries	IMC	Stunted Fingerlings/yearlings	67360 nos.			
Bhadrak	Others (Specify)	-	-	-			

9. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : YES/NO- Yes, If yes, then

Year of establishment : 2006

9.1 Details of soil & water samples analyzed so far :

KVK Name	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Bhadrak	Soil Samples	565	215	41	
Bhadrak	Water Samples	154	80	28	

10. Rainwater Harvesting- Not Applicable**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
Bhadrak										

11. Utilization of Farmers Hostel facilities- Not Applicable**Accommodation available (No. of beds) :**

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)
Bhadrak							

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
Bhadrak		2005	3 nos.	2 nos. since September-2010	Not in habitable condition

13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Bhadrak	26.03.2013	25	<ul style="list-style-type: none"> ➤ To conduct more number of training programmes on IFS, pond based farming system, protected cultivation , vermicomposting, and Bee-keeping ➤ To promote suitable Agro-forestry models in the district ➤ To promote suitable IPM module against tomato fruit borer ➤ To assess suitable management strategy against rice sheath blight ➤ More skill upgradation training programme on dairy and goatery ➤ To conduct training programme on fodder cultivation and Azolla production ➤ Skill development training on off-season paddy straw mushroom production in polyhouse ➤ To impart training to the fishery extension officials on recent development in pisciculture and to organise interface seminar involving extension officials and progressive fish growers ➤ To conduct more number of training programmes on crop production ➤ Model success stories may be published in the KVK News letter ➤ More demonstration on LCC may be planned for better awareness among the farmers.

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			<ul style="list-style-type: none"> ➤ KVK may produce planting materials of elephant foot yam in plenty to meet the increasing demand of the farmers ➤ More emphasis may be given on secondary agriculture through training and demonstration ➤ Value addition of seasonal vegetables and mushroom to avoid distress sale ➤ Demonstration on zero tillage in farmers field ➤ To assess the performance of some salt tolerant rice varieties ➤ To promote diversified cropping in drought and flood prone areas ➤ To conduct demonstration on the management of grassy weeds in wheat ➤ To popularise short duration rice hybrids for kharif season
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14. Status of Kisan Mobile Advisory (KVK-KMA)

KVK Name	No. of messages sent	No. of beneficiary		Major recommendations
		Farmers	Ext. Pers.	
Bhadrak	66	629	50	<ul style="list-style-type: none"> ➤ e-KrishiSandesh,KVK,Bhadrak:- Agami Kharif phasala chasa kariba pain mrutika parikshya karibaku chahoon thile namuna mati sangraha kari niantu. ➤ e-KrishiSandesh,KVK,Bhadrak:- Kadua tali pakaiba pain 10decimile tali jaga prati 40jhuri sadha gobara khata,12kg SSP ebong 2kg MOP sara prayoga karantu. Tali pakaibara 15dina pare 4kg Urea sara prayoga karantu. ➤ e-KrishiSandesh,KVK,Bhadrak:- Dhanicha chasa kariba pain acre prati 10kg hisabare manji agatura sangraha kari niantu. ➤ e-KrishiSandesh,KVK,Bhadrak:-Kharatia bhendi phasala re sahili roga ra damana paini 10liter pani prati 5ml Imidacloprid ba 3.5g Thimethoxam ku spray karantu. ➤ e-KrishiSandesh,KVK,Bhadrak:- Dhana phasalare thoda sara hisabare acre prati 19kg Urea ebong 12.5kg MOP sara prayoga karantu. ➤ e-KrishiSandesh,KVK,Bhadrak:- Pokhari ra tala mati durgandha jukta hoi Mira machha kimba bilati rohi machha maru thile Acre prati 20kg Geolite ku 2basta nadi bali re hata chhincha pani dei bhala bhabe misai pokhari ra sarbatra buni diantu. ➤ e-KrishiSandesh,KVK,Bhadrak:- Pala chatu chasa ku lagatara gotia jagare nakari pratimasare jaga paribartan karantu, Abong sehi sthan ku khara re sukhai, Bleaching powder pakai kimba covering kari Formalin spray kari bisodhan karantu Jahadwara amal apribartita rahiba.

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
Bhadrak	ATMA	State	18000	Exposure Visit of Mushroom Farmers	-	
Bhadrak	ATMA	State	200000	Farmer Participatory Research		
Bhadrak	BGREI	State	70000	Monitoring BGREI Programme	6000ha	Bhadrak district
Bhadrak	NHM					
Bhadrak	RKVY					
Bhadrak	DRDA					
Bhadrak	Zila Panchyat					
Bhadrak	Seed village					
Bhadrak	NAIP					
Bhadrak	Climate Change					
Bhadrak	Others (Plz. Specify)					

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Bhadrak	30530545584	117844.00	295971	295971

N.B.- OB as on 1.4.2012-Rs 117844.00/-, Sale Proceed for 2010-11 & 2011-12 -Rs. 4, 35,252/-, Bank Interest- Rs. 1324/-, Total Income -Rs. 556401/-, Total Expenditure (1/4/12 to 31/3/13)= Rs. 378274/-, Net Balance as on 31.03.2013-Rs. 295971/-

17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Bhadrak				-

18. Case study and Success Story – Two best only in the following format

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

19. Details of KVK Agro-technological Park

Name of KVK	Name of Component of Park	Detail Information (If established)
Bhadrak	Crop Cafeteria	
Bhadrak	Technology Desk	
Bhadrak	Visitors Gallery	
Bhadrak	Technology Exhibition	
Bhadrak	Technology Gate-Valve	

20. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	Remarks
Bhadrak	Prof. S.S.Nanda, Dean, Extension Education, OUAT	25.03.2013	Interaction with Scientist

21. Status of KVK Website: Available/Not Available- Available**22. E-CONNECTIVITY-** Not Available

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			

23. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Bhadrak	Soil testing awareness programme	1	50	Soil test based fertilizer recommendation
Bhadrak	Farmer Scientist Interaction	1	30	Pest Management in Vegetable
Bhadrak	Kisan Gosthi	1	30	Bee Keeping
Bhadrak	Ex-Trainee Samelan	1	30	Pisciculture
Bhadrak	FIG Convenors Meet	1	40	Mushroom cultivation
Bhadrak	Exposure Visit	1	40	IFS
Bhadrak	Lectures organized			
Bhadrak	Exhibition			
Bhadrak	Film show	2	70	IPM and Bee keeping
Bhadrak	Fair			
Bhadrak	Farm Visit			
Bhadrak	Diagnostic Practical's			
Bhadrak	Distribution of Literature (No.)			
Bhadrak	Distribution of Seed (q)			
Bhadrak	Distribution of Planting materials (No.)			
Bhadrak	Bio Product distribution (Kg)			
Bhadrak	Bio Fertilizers (q)			

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Bhadrak	Distribution of fingerlings (No)			
Bhadrak	Distribution of Livestock specimen (No.)			
Bhadrak	Total number of farmers visited the technology week			

24. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

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

Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries
Bhadrak	Oilseeds	-	-
Bhadrak	Pulses	-	-
Bhadrak	Cereals	-	-
Bhadrak	Vegetable crops	-	-
Bhadrak	Tuber crops	-	-
Bhadrak	Fruits	-	-
Bhadrak	Spices	-	-
Bhadrak	Cotton	-	-
	Total	-	-

Farmers-scientists interaction on livestock management

Name of KVK	Livestock components	Number of interactions	No. of participants
Bhadrak	Dairy Management		
Bhadrak	Disease management		
Bhadrak	Feed and fodder technology		
Bhadrak	Poultry management		

Animal health camps organised

Name of KVK	Number of camps	No. of animals	No. of farmers
Bhadrak			
Bhadrak			

Seed distribution in drought hit states

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

Seedlings and Saplings distributed

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

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Bhadrak	-	-	-	-
Bhadrak	-	-	-	-
Bhadrak	-	-	-	-

Bio-control Agents

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

(e) Bio-Fertilizer

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

(f) Verms Produced

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

(g) Large scale adoption of resource conservation technologies

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

(h) 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
Bhadrak												

25. **Status of KVK Website:** Already having website/under construction-
If available, please provide the address of website: www.kvkbhadrakzpdvii.org.in

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

**PROGRAMME COORDINATOR,
KVK, BHADRAK, ODISHA**