

# **ANNUAL PROGRESS REPORT**

**April 2014 to March 2015**

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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 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 Horse gram, 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 2014 to March 2015

### Summary of KVK Annual Report (Quantifiable Achievement) for the year 2014-15

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
<b>1</b>	<b>On Farm Testing</b>			
	Proposed OFT	17		84
	On Going OFT	00		00
	Technologies assessed (Completed OFT)	02		08
	Technologies refined	03		12
	On farm trials conducted	14		69
<b>2</b>	<b>Frontline demonstrations</b>			
	Proposed Frontline demonstrations	14		139
	On Going Frontline demonstrations	00		
	FLDs conducted on crops	12		222
	Area under crops (ha.)	74.20		
	FLD on farm implement and tools	01		10
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	00		
	FLD on Fisheries - Finger lings	00		
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)	02		45
	FLD on Women in Agriculture - ( Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	01		10
<b>3</b>	<b>Training programmes</b>	<b>No. of Course</b>	<b>Duration (days)</b>	<b>Participants</b>
	Farmers	81	123	2649
	Farm women	15	19	187
	Rural youth	02	05	30
	Extension personnel/ In service	01	01	26
	Vocational trainings	04	07	359
	Sponsored and Collaborative Training	03	07	389
	<b>Total</b>	106	162	3640
		<b>No. of programmes</b>	<b>Participants</b>	
<b>4</b>	<b>Extension Programmes</b>	20	9043	
<b>5</b>	<b>Production of technology inputs etc</b>	<b>Qty</b>	<b>Beneficiaries (nos.)</b>	
	Seed (qt.)	362.40	Mass	
	Planting material produced (nos.)	3820	320	
<b>6</b>	<b>Livestock</b>	<b>Qty</b>	<b>Beneficiaries (nos.)</b>	
	Livestock strains ( Nos)			
	Milk Yield - Cow, Buffelo etc. (in liter)	11220.5	35	
	Fish (Kg.)	46		
	Fingerlings (nos.)			
	Poultry-Eggs (nos.)			
	Ducks (nos.)			
	Chicks etc. (nos.)			

7	<b>Bio Products</b>		<b>Qty</b>	<b>Beneficiaries (nos.)</b>
	Bio Agents -Earth worm (Kg.)			
	Trichoderma (kg.)		58	74
	Bio Fertilizers- Vermi compost, Rhizobium, PSB , BGA , Mycorriza , Azotobacter , Azospirillum etc. (Kg.)			
	Bio Pesticide-Panchgavya, Neem Extract , Neem oil etc.(lit.)			
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)		07	07
	Publications ( Res. Paper/ pop. Art./Bulletin,etc.)		26	Mass
	KVK News letter		04	Mass
	SAC Meetings conducted		1	30
	Soil sample tested		51	35
	Water sample tested		-	-
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)		-	-
	KVK-KMA (Message and beneficiaries)		122	2415
	Convergence programmes		37	1491
	Sponsored programmes		03	389
	KVK Progressive Farmers interaction		02	92
	No. of Technology Week Celebrations		-	-
	Attended HRD activities organized by ZPD		01	01
	Attended HRD activities organized by DES		04	03
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc. )		03	03
9	Current status of Revolving Funds ( Amt. in Rs.)			Rs. 5,59,667.00
10		<b>No. of blocks</b>	<b>No. of villages</b>	
	Outreach of KVK in the District	08	53	
11		<b>ICAR</b>	<b>SAU</b>	<b>Others</b>
	No. of important visitors to KVK (nos.)	01	03	11
12		<b>Working (Yes/No)</b>	<b>No. of Update</b>	
	Status of KVK Website	Yes	165	
13		<b>Application received</b>	<b>Application disposed</b>	
	Status of RTI (nos.)	02	02	
14		<b>Query received</b>	<b>Query dissolved</b>	
	Citizen Charter (nos.)	-	-	
15		<b>Working (Yes/No)</b>	<b>No. of programme viewed</b>	
	E-connectivity	No	-	
16		<b>Filled</b>	<b>Vacant</b>	
	Staff Position	15	01	
17	Workshop/ Seminar/ Conference attended by staff of KVK ( nos)		06	
18	Publication received from ICAR /other organization (nos.)		21	
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)	-	-	

# GENERAL INFORMATION

## 1.1. Staff Position (as on date)

### Summary of Staff position in KVKs on March, 2015

Name of KVK	Sanctioned Posts	PC (1)		SMS (6)		PA (3)		Admn. (6)		Total	
		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
Bilaspur	16	1	1	6	6	3	3	6	5	16	15

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
Bilaspur	Programme Coordinator	Dr. K.R. Sahu	Entomology	Ph.D	Bio-control IPM	(15600-39100)	27040+8000 AGP	22.10.2014	Temporary	OBC
Bilaspur	Subject Matter Specialist1	Dr. Kiran Gupta	Home Science	Ph.D	Food & Nutrition	(37400-67000)	51600+9000 AGP	29.09.2012	Temporary	General
Bilaspur	Subject Matter Specialist2	Dr. Deepak Shrivastava	Extension	Ph.D	Agril. Extension	(8000-4000)	8000+4000 AGP	09.09.2014	Temporary	General
Bilaspur	Subject Matter Specialist3	Smt. Shilpa Kaushik	Agronomy	MSc. (Ag.)	Weed Management	(15600-39100)	15600+5400 AGP	06.09.2012	Temporary	OBC
Bilaspur	Subject Matter Specialist4	Shri Rajiv Dixit	Horticulture	MSc. (Ag.)	Vegetables	(15600-39100)	15600+5400 AGP	10.09.2014	Temporary	General
Bilaspur	Subject Matter Specialist5	Shri Vinod Nirmalkar	Plant Pathology	MSc. (Ag.)	Medicinal Disease	(15600-39100)	15600+5400 AGP	13.09.2012	Temporary	OBC
Bilaspur	Subject Matter Specialist6	Dr. Said Prashant Pandharinath	AP & FE	Ph.D.	Food Processing	(15600-39100)	15600+5400 AGP	31.10.2014	Temporary	General
Bilaspur	Programme Assistant	Smt. Nivedita Pathak	Home Science	M.H.Sc	Child development	(15600-39100)	22015+5400 AGP	15.01.2007	Temporary	General
Bilaspur	Farm Manager	Shri Neel Kamal Patel	Agronomy	MSc. (Ag.)	Forage & Fodder	(9300-34800)	9300+4200 AGP	20.09.2012	Temporary	OBC
Bilaspur	Computer Programmer	Smt. Sushila Ohdar	Computer	M.C.A.		(9300-34800)	9300+4200 AGP	20.10.2014	Temporary	ST
Bilaspur	Accountant / superintendent	Shri J.P. Sharma		Hr. Sec.		(5200-20200)	14630+2800 AGP	23.07.2010	Temporary	General
Bilaspur	Stenographer					<b>Vacant</b>				
Bilaspur	Driver	Shri Mohanlal Vaishnav		8 <sup>th</sup>		(5200-20200)	12640+2800 AGP	01.01.1986	Temporary	OBC
Bilaspur	Driver	Shri Raju Kashyap		Hr.Sec.		(5200-20200)	5680+1900 AGP	01.04.2013	Temporary	OBC
Bilaspur	Supporting staff	Shri Indram Patel		7 <sup>th</sup>		(4750-7440)	8950+1800 AGP	01.01.1986	Temporary	OBC
Bilaspur	Supporting staff	Smt. Shahodra Shrivash		5 <sup>th</sup>		(4750-7440)	5960+1300 AGP	16.09.2008	Temporary	OBC

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

<b>KVK Name</b>	<b>Agro-climatic zone</b>	<b>No . of Blocks</b>	<b>No. of Panchayats</b>	<b>Population</b>	<b>Literacy</b>	<b>SC and ST Population</b>	<b>No. of farmers</b>	<b>Average land holding</b>
Bilaspur	Chhattisgarh Plane	8	557	2663629	1596560	1051461	226110	1.66

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

<b>KVK Name</b>	<b>Village Name</b>	<b>Year of adoption</b>	<b>Block Name</b>	<b>Distance from KVK</b>	<b>Population</b>	<b>Number of farmers (having land in the village)</b>
KVK, Bilaspur	Birgahni	2012-13	Kota	45 km	818	149

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

<b>KVK Name</b>	<b>THRUST AREA</b>
Bilaspur	1. Weed management at critical period
	2. Varietals replacement of various crops
	3. Crop diversification in upland rice
	4. Combined use of inorganic and organic fertilizer
	5. Integrated Pest & Weed management in different crop
	6. Balance use of fertilizer
	7. Safe grain storage
	8. Insect & disease management
	9. Management of Malnutrition
	10. Mushroom cultivation and Spawn Production
	11. Vegetable and Fruit Production
	12. Value addition of Fruit and Vegetable crop & Mushroom
	13. Farm Mechanization
	14. Mass Production of Bio agents for Insect and disease management
	15. Seed and soil treatment for seed and soil borne problems.
	16. Self employment and income generating activity

#### 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>
Bilaspur	Field remains fallow after long duration rice.	PRO and Diagnostic visit	Birgahani, Block – Kota
Bilaspur	Heavy plant mortality of gram either due to collar rot or wilt when grown after soybean in irrigated conditions	PRO and Diagnostic visit	Birgahani, Block – Kota
Bilaspur	Leaf Blast, Sheath blight & stem borer causing heavy yield losses	PRO and Diagnostic visit	Birgahani, Block - Kota
Bilaspur	High Mortality in vegetables Nursery Due to diseases i.e. Damping off, Bacterial blight, root rot etc.	PRO and Diagnostic visit	Birgahani, Block – Kota
Bilaspur	Wilt complex in Chickpea causing heavy yield losses	PRO and Diagnostic visit	Navgoan, Block – Bilha
Bilaspur	Low yield obtained by farmers due to early & Late blight	PRO and Diagnostic visit	Navgoan, Block – Bilha
Bilaspur	Low yield due to pest DBM	PRO and Diagnostic visit	Kormi, Block - Bilha
Bilaspur	High cost of Chemical Fertilizers/ Soil Health	PRO and Diagnostic visit	Kormi, Block - Bilha
Bilaspur	Malnutrition in preschool children	PRO and Diagnostic visit	Birgahani, Block - Kota
Bilaspur	Iron deficiency among adolescent children	PRO and Diagnostic visit	Birgahani, Block - Kota



## 2. On Farm Testing

### 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

### 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)			Recommendat ions
										FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	T3	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	T3	
Bilaspur	2014-15	Kharif 2014-15	Field remains fallow after long duration rice.	Assessment of Rice based cropping system under limited (one) irrigation during Rabi.	Assessment	Rice based Cropping system	Rice-Fallow Rice-Gram Rice-Safflower	Irrigated	4	38.66	57.11	54.69	30644.6	469324.6	42644.6	Rice-Gram cropping system performs well than other cropping systems
Bilaspur	2014-15	Kharif 2014-15	Heavy plant mortality of gram either due to collar rot or wilt when grown after soybean in irrigated conditions.	Assessment of Soyabean based cropping system under limited (one)irrigation during Rabi.	Assessment	Soyabean based Cropping system	Soyabean-Gram Soyabean-Wheat Soyabean-Onion	Irrigated	4	22.76	25.72	53.4	36400	40300	91500	Soyabean – Onion Cropping system performs better than other cropping systems
Bilaspur	2014-15	Kharif	Sheath blight causing yield losses	Assessment of Chemical against Sheath Blight of Rice	Assessment	PLP	Rice	Irrigated Upland	04	33.56	45.75		25,628	39,075		Foliar Application of Propiconazole @1ml/lit at the

			up to 69%													time of Active tillering & Panical initiation stage
Bilaspur	2014-15	Rabi	Wilt complex in Chickpea causing heavy yield losses	Assessment of <i>Trichoderma</i> & <i>Rhizobium</i> culture as seed & soil treatment against wilt complex of Chickpea	Assessment	PLP	Chickpea	Irrigated Upland	4	5.12	7.42		12080	20,880		Seed treatment by <i>Trichoderma viride</i> & <i>Rhizobium</i> @10gm/kg of seed & Soil treatment by <i>Trichoderma viride</i> @10gm/kg of FYM, apply during field preparation.
Bilaspur	2014-15	Rabi	Low Yield obtained by Farmers due to Early & Late Blight	Assessment of Chemical against Blight management of Tomato	Assessment	PLP	Tomato	Irrigated Upland	4	215	365		59500	121500		Seed treatment by <i>Trichoderma viride</i> & foliar application of azostrobin 23% SC 1ml/lite @ at 30,45 &60 DAP
Bilaspur	2014-15	Kharif	High Mortality in vegetables Nursery Due to diseases i.e.Damping off, Bacterial blight, root rot etc.	Assessment of Bio-agents against Vegetables Nursery diseases	Assessment	PLP	Tomato & Brinjal	Irrigated Upland	4	-	-	-	-			Seed treatment By <i>Trichoderma harzianum</i> @10gm/kg of seed & soil (by FYM- <i>Trichoderma</i> )
Bilaspur	2014-15	Kharif	Low yield due to pest DBM	Assessment of IGR (Chlorfluazuron) against DBM in	Assessment	HOV	Cabbage	Irrigated upland	04	45.44	48.41	-	189720	206440		Use of Chlorfluazuron @ 1250 ml per ha was found effective to

				Cabbage												use for early instars of DBM.
Bilaspur	2014-15	Kharif	High cost of Chemical Fertilizers/ Soil Health	Assessment of LBFs as fertigation in Vegetables	Assessment	HOV	Tomato	Irrigated upland	05	74.10	80.27	-	2,54,500	2,79,600		Use of combination of all three LBFs were found most effective with increased yield and income.
Bilaspur	2014 Kharif	Less efficiency of desi Plough	Trifal Biasi Plough in Paddy crop	Farm Machinery	Assessment	Mid land	Paddy	Irrigated upland	04	35.00	38.00		31000	34200		Trifal Biasi is better weed control plough in paddy
Bilaspur	2014 Kharif	More drudgery and time consuming in weed management	Ambika Paddy weeder in SRI method	Farm Machinery	Assessment	Mid land	Paddy	Irrigated upland	04	38.00	42.00		32700	37800		Ambika paddy weeder is better weed control in paddy

## 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> )	RP (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	RP(T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	RP(T <sub>3</sub> )	FP (T <sub>1</sub> )	RP(T <sub>2</sub> )	RP(T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	RP(T <sub>3</sub> )
Bilaspur	Assessment of Rice based cropping system under limited (one) irrigation during Rabi.	Crop equivalent Yield with Unit and Cultivated and utilization index	38.66 30.68 %	57.11 61.36%	54.69 66.30 %	20000	28500	29000	50644.6	74824.6	71644.6	30644.6	46324.6	42644.6	2.53	2.62	2.47
Bilaspur	Assessment of Soyabean based cropping system under limited (one) irrigation	Crop equivalent Yield with Unit and Cultivated and utilization index	22.76 58.08 %	25.72 58.90%	53.4 67.12 %	20500	24000	42000	56900	64000	133500	36400	40300	91500	2.77	2.67	3.17

	during Rabi.																
Bilaspur	Assessment of Chemical against Sheath Blight of Rice	Disease incidence /sq.m	72.56	4.23		18000	20,400		43628	59,475		25,628	39,075		1:2.42	1:2.91	
Bilaspur	Assessment of Trichoderma & Rhizobium culture as seed & soil treatment against wilt complex of Chickpea	Disease incidence/sq.m	20.62	6.24		8400	8800		20480	29680		12080	20880		1:2.43	1:3.37	
Bilaspur	Assessment of Chemical against Blight management of Tomato	Disease Severity/sq.m	56.81	12.42		48000	61000		107500	182500		59500	121500		1:2.23	1:2.99	
Bilaspur	Assessment of Bio-agents against Vegetables Nursery diseases	Percentage of Seedlings Stands	39.43	82.95		7000	7110	-	-	-	-	-	-	-	-	-	-
Bilaspur	Assessment of IGR (Chlorfluazuron) against DBM in Cabbage	% DBM infestation				82920	84020		272640	290460		189720	206440		1:3.28	1:3.45	
Bilaspur	Assessment of LBFs as fertigation in Vegetables	High cost of Chemical Fertilizers/ Soil Health	12.44	8.88		116000	121750		370500	401350		254500	279600		1:3.19	1:3.29	
Bilaspur	Assessment of Trifal Biasi Plough in Paddy crop	Working Capacity	0.4ha/day	0.2 ha/day		18,000	19000		49000	53200		31000	34200		1:2.72	1:2.8	
Bilaspur	Assessment of Ambika Paddy weeder in SRI method	No. of tillers per hill	48	35		20500	21000		53200	58800		32700	37800		1:2.59	1:2.8	

### 2.3 Information about Home Science OFT:

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
Bilaspur	2014-15	Rabi 2014-15	Malnutrition among pre school children	Assessment of protein rich supplementary food against protein calorie malnutrition	Assessment	Nutritional Security	Enrichment of their diet with Protein rich supplementary food. 50 gm. of protein rich supplementary food in the form of laddoo was given to each child per day for 3 months period which provides 19.1 gm. protein per day.	This food consisted of wheat flour 25 gm.+ 25 gm. rice flour, 25 gm. chickpea flour, 25 gm. soy flour and 100 gm. jaggary.		10	Performed well 50 gm of laddoo given to children per day as supplementary food for 3 months including their routine diet which will increase their weight
Bilaspur	2014-15	Rabi 2014-15	Iron deficiency among adolescent girl	Assessment of iron rich supplementary food in the diet of adolescent girls against iron deficiency	Assessment	Nutritional Security	Iron rich supplementary food given to girls	Laddoo consisted of Amaranthus (Rajgeer) seed, sesame, mint leaves, lotus stem (in dried form), jaggary were taken for preparing laddoo. 100 gm. of this laddoo given to per girl per day for 3 months which contains 16.1 mg. iron.		10	Performed well results reveled that girls who have less Hb level should be feed with 100 gm laddoo per day for prolong period along with 30 mg. of vitamin C.

### 2.4 Economic Performance Home Science OFT:

KVK name	OFT Title	Performance Indicator / Parameter															
		Average of initial weight		Average of increase in weight		Change in weight		Increase in weight		% increase in weight		Cost of input		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Bilaspur	Assessment of protein rich supplementary food against protein calorie malnutrition	10.60	10.70	11.70	12.10	11.20	11.50	1.1	1.6			-	1500.00 per month	-	-	-	-
		Average of initial Hb		Average of increase in Hb		Change in Hb		Increase in Hb		% increase in Hb		Cost of input		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Bilaspur	Assessment of iron rich supplementary food in the diet of adolescent girls against iron deficiency	10.83	10.80	11.99	11.80	10.86	11.70					-	2000.00 per month				

## 2.5 Feedback from KVK to Research System

Name of KVK	Feedback
Bilaspur	Farmers are impressive for Mushroom production, needs to identify and cultivation technology of Medicinal mushrooms which we help to develop human health and income generation.
Bilaspur	Insect and disease is major problem in crop production required to developed eco-friendly management and research on indigenous management technology of pest.
Bilaspur	Study on effect of lotus stem in the diet of adolescent girl
Bilaspur	Compatibility effects of Fungicides with insecticides & bio-agents

## 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
Bilaspur	Pigeon Pea	Variatal Assessment	Use of Culture, Improved variety	Training and Demonstration	15	105	270
Bilaspur	Sesame	Variatal Assessment	improved variety	Training and Demonstration	07	46	58
Bilaspur	Rice	Variatal Assessment	SRI method	Training and Demonstration	25	178	387
Bilaspur	Chickpea	Variatal Assessment	Line sowing, seed treatment	Training and Demonstration	35	496	605
Bilaspur	Safflower	Variatal Assessment	Line sowing, seed treatment	Training and Demonstration	06	80	216
Bilaspur	Chickpea	Plant Protection	Application of <i>Trichoderma</i> and <i>Rhizobium</i> as seed dresser	Training and Demonstration	12	128	223
Bilaspur	Rice	Disease management, Nutrient	Seed treatment and fungicide	Training and Demonstration	25	105	210
Bilaspur	Onion	Weed management	Pre emergence herbicide	Training and Demonstration	02	45	15

#### 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 egg plant 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

### 3.2 Details of FLDs implemented

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/Technology/Entreprizes	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
Bilaspur	2014-15	Kharif	Crop Production	Summer ploughing+Weed management	Rice(Rainfed)	MTU1010+Pre and Post emergence herbicides	8	28	35	40			14	6	20
Bilaspur	2014-15	Kharif	Crop Production	Varietal Assesment	Sesame	GT-10+ seed treatment	5	4	6	50		13	4		17
Bilaspur	2014-15	Kharif	Crop Production	Weed management (TSP) block marwahi village maladand	Rice	RainfedMTU1010;weedicide Bispyribac sodium 10% @20-25DAT	16	16	20	25		40			40
Bilaspur	2014-15	Kharif	Crop Production	Varietal Assesment	Piegon Pea	ICPL85063+Seed treatment+IPM	5	5	9	41.7		11	02		13
Bilaspur	2014-15	Kharif	Crop Production	Varietal Assesment	Wheat	GW273+line sowing+Seedtreatment+IPM	5	18	25	38.8			9	4	13
Bilaspur	2014-15	Rabi	Crop Production	Varietal Assesment	Chickpea	Jaki-9218 +seed treatment+ line sowing +IPM	5	4.9	7.1	44.8	11		02		13
Bilaspur	2014-15	Rabi	Crop Production	Varietal Assesment	Safflower	JSI-7+ seed treatment+line sowing+IPM	5	3.9	7.3	87.1	10		02	01	13
Bilaspur	2014-15	Kharif	PLP	Use of Chemical	Rice/Swarna	Demonstration of Tricyclazole against Blast of Rice	5	32.12	46.25		12		01	-	13
Bilaspur	2014-15	Rabi	PLP	Use of Culture	Chickpea	Demonstration of <i>Trichoderma &amp; Rhizobium</i> against wilt complex of Chickpea by Seed & soil treatment	5	4.96	6.52		14		01		15
Bilaspur	2014-15	Rabi	PLP	Mushroom Cultivation	Mushroom Cultivation	Demonstration of Oyster Mushroom Cultivation	-	730gm	950gm		1	11	03		15
Bilaspur	2014-15	Rabi	AEG	Use of Seed ferti drill	Wheat/GW 273	Demonstration of tractor operated seed drill for sowing of wheat	10	20.65	25.01	21 %	8		02	-	10

### 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> )
Bilaspur	2014-15	Kharif	Crop Production	290	330	14000	16000	36680	45850	22680	29850	2.62	2.86
Bilaspur	2014-15	Kharif	Crop Production	65.1	82.6	7000	8500	18000	27000	11000	18500	2.57	3.1
Bilaspur	2014-15	Kharif	Crop Production	198	75	14000	14500	20960	26200	6960	11700	1.49	1.8
Bilaspur	2014-15	Kharif	Crop Production	138	156	9000	10000	21000	38000	12000	28200	2.33	2.8
Bilaspur	2014-15	Kharif	Crop Production	78	110	9000	12000	25200	35000	16200	23000	2.8	2.91
Bilaspur	2014-15	Rabi	Crop Production	50.21	86	6800	8000	15190	22010	8390	14010	2.23	2.75
Bilaspur	2014-15	Rabi	Crop Production	3/20.12	7/26.4	6000	8000	11700	21900	5700	13900	1.95	2.73
Bilaspur	Use of Chemical	Rice/Swarna	Per-Cent Disease index	46.25	10.53	18000	20425	41756	60125	23756	39700	1:2.31	1:2.94
Bilaspur	Use of Culture	Chickpea	Disease incidence /sq.m	20.96	7.86	8400	8800	19840	26080	11440	17280	1:2.36	1:2.96
Bilaspur	Mushroom Cultivation	Mushroom Cultivation	Biological Efficiency	730gm	950gm	15.59	15.59	43.8	57.0	28.21	41.41	1:2.80	1:3.65
Bilaspur	Use of Seed cum ferti Drill	Wheat/GW 273	Cost of Seeding	500.00	465.00	19760	19725	28910	35014	9150	15289	1.46	1:1.78

### 3.4 Information about Home Science FLDs

<b>KVK name</b>	<b>Year</b>	<b>Season</b>	<b>Thematic Area</b>	<b>Problem Identified</b>	<b>Technology to be Demonstrated as Solution to the Identified Problem</b>	<b>Crop/ Enterprise (In which crop Enterprise or Farming Activity)</b>	<b>Name of Variety/Technology/Entreprizes</b>	<b>Farming Situation</b>	<b>Proposed area (ha)</b>	<b>No. of Beneficiaries</b>
Bilaspur	2014-15	Kharif	Nutritional Security	Malnutrition among farm family	Improved seed, proper layout, seed treatment and technical guidance	Kitchen garden		Back yard	0.2	10
						Brinjal	Mukta Keshi	Back yard	30 sq.m	10
						Tomato	Pusa Rubi	Back yard	30 sq.m	10
						Chilli	Japani Laungi	Back yard	30 sq.m	10
						Pumpkin	Sona Gold	Back yard	30 sq.m	10
						Smoothguard	Rekha	Back yard	30 sq.m	10
						Cucumber	Green long	Back yard	30 sq.m	10
						Okra	Super Gold	Back yard	30 sq.m	10
						Bitterguard	Swasti	Back yard	30 sq.m	10
Bilaspur	2014-15	Rabi	Income generation	Poor income of farm family	Mushroom production technology	Mushroom production	Pluotus florida			30

### 3.5 Economic Performance Home Science FLDs:

KVK name	Technology to be Demonstrated	Performance Indicator / Parameter																					
		Output m <sup>2</sup> /h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Production per unit		Cost of input		Incremental income		Yield (Kg/ha)		Net Return		Savings in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Bilaspur	Production technology for fresh vegetables for farm family against Malnutrition																						
												137	140					1370	14000				
												139	142					1390	1420				
												25	30					2500	3000				
												239	255					2390	2540				
												70	75					6800	7100				
												69	72					6200	6900				
												75	83					7300	8000				
												68	72					7100	7600				
Bilaspur	Mushroom production technology												110	kg.		3395/-			105		7105/-	7105	3.092

### 3.6 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Bilaspur	Rice	Pre FLD training, demonstration	3	30	
Bilaspur	Chickpea	Pre FLD training, demonstration, interaction	5	15	
Bilaspur	Wheat	Pre FLD training, demonstration, interaction	3	18	

Bilaspur	Pigeonpea	Pre FLD training, demonstration, interaction	03	46	
Bilaspur	Safflower	Pre FLD training, demonstration, interaction	03	12	
Bilaspur	Mushroom	Pre FLD training, demonstration, interaction	6	45	
Bilaspur	Sesame	Pre FLD training, demonstration, interaction	2	34	
Bilaspur	Kichen Garden	Pre FLD training, demonstration, interaction	7	10	

### 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.
-	-	-	-	-	-	-

## 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
Bilaspur	Seed & Soil treatment by <i>Trichoderma viride</i> @10gm /kg of seed & FYM in Vegetables Nursery Disease Management	Method demonstration	OFT	Effective adoption
Bilaspur	Seed treatment by <i>Trichoderma viride</i> and <i>Rhizobium</i> @10gm /kg & soil treatment by 1.5 kg of <i>T. viride</i> /qt of FYM. Dibbing by Seed drill during sowing for Disease Management of Wilt complex of Chickpea	Method demonstration	OFT & FLD	Effective adoption
Bilaspur	Sheath blight appear after 25-30 days after transplanting spray Propiconazole @ 1 ml/lit. at active tillering stage of Rice	Method demonstration	OFT	Effective adoption
Bilaspur	Infestation of DBM was observed minimum when it applied in initial stage, but its effectiveness is low when applied after heavy infested crops.	Method demonstration	OFT	Effective adoption

Bilaspur	The quality and shining of fruits are improved so get good price in market. Low infestation of disease and insects but availability of LBFs is not feasible.	Method demonstration	OFT	Effective adoption
Bilaspur	Positive and curious about Laddu	Method demonstration	OFT	Effective adoption
Bilaspur	The technology of sowing seed using seed cum ferti drill saves much time than broadcasting also increase the yield through increased no of tillers	Method demonstration	FLD	Effective adoption
Bilaspur	Farmer appreciated the size & appearance of Indira Shweta	Method demonstration	FLD	Effective adoption
Bilaspur	Farm women appreciated this (Kitchen Garden) technology, they have got fresh vegetables per day for family and generated income.	Method demonstration	FLD	Effective adoption

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

Name of KVK	Feedback basic of OFT on Technology Tested
Bilaspur	Compatibility Study regarding Fungicides & Insecticides in Rice crop
Bilaspur	Integration of Bio-agents & chemicals against Wilt complex of Chickpea
Bilaspur	Farmers are impressive for Mushroom production, needs to identify and cultivation technology of Medicinal mushrooms which we help to develop human health and income generation.
Bilaspur	Insect and disease is major problem in crop production required to developed eco-friendly management and research on indigenous management technology of pest.
Bilaspur	Study on effect of lotus stem in the diet of adolescent girl

#### 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
-	-	-	-	-

## 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	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	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	6	7	8	9	10	11	12	13	14	15
Bilaspur	RY	ONC	OTH	Dissemination Technology for RAWA students & RY	1	1	8		6		2	3	4	
Bilaspur	FW	ONC	OTH	Samsamyiki salah for farmers	1	1	2		6		1		24	
Bilaspur	FW	ONC	CRP & PLP	Production and protection measures in Rice crop	1	1	3		13		3		81	
Bilaspur	FW	OFC	WOE	Utility of minerals in daily diet and its dietary source	1	1				10				
Bilaspur	FW	OFC	WOE	Diet plan in adolescent stage	1	1				8				
Bilaspur	FW	OFC	OTH	Celebration of Environment day	1	1			11	15	7			
Bilaspur	FW	OFC	PLP	Importance and method of seed treatment in Kharif crops	1	1			2				16	
Bilaspur	FW	OFC	CRP	Land preparation and selection of variety of Kharif crop	1	1			14		16			
Bilaspur	FW	OFC	CRP	Pre demonstration training on Arhar and Til production technology	1	1					28		5	
Bilaspur	FW	OFC	CBD	Group Discussion on weather condition	1	1	8						7	
Bilaspur	FW	OFC	HOV	Training on improved techniques for vegetable nursery preparation	1	1	8	1					1	
Bilaspur	FW	OFC	WOE	Training on safe drinking water to prevent water borne diseases	1	1	5	3					1	8
Bilaspur	RY	ONC	PLP	Training on Mushroom cultivation and spawn	1	5	4		3				6	2

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	6	7	8	9	10	11	12	13	14	15
				production technology for Rural youth										
Bilaspur	FW	OFC	WOE	Training on layout of Kitchen garden	2	1								11
Bilaspur	FW	OFC	AEG	Training on Farm machinery	2	1							11	
Bilaspur	FW	ONC	CBD	Krishak Vaigyanik Parisanwad	1	1	8		2		19		21	
Bilaspur	FW	OFC	PLP	Training on identification of important disease and insect of Kharif Rice and their integrated management	2	1			13					
Bilaspur	FW	OFC	OTH	Celebration of Parthenium Eradication awareness day	1	1			7					
Bilaspur	FW	OFC	PLP	Training on main diseases of Kharif crop and management	1	1					11			
Bilaspur	FW	ONC	OTH	Farmers scientist interaction	1	1	1		2				8	
Bilaspur	FW	ONC	CBD	Training Krishak vaigyanik parisamvad	1	1					42		3	
Bilaspur	FW/Ry	ONC	CBD	soil testing water mng training	1	7	6	6	9	4	11	4	14	6
Bilaspur	FW	OFC	WOE	Poshan divas	1	1		14		5		5		34
Bilaspur	FW	ONC	HOV	Nursery management in crops	2	1	2				16		2	
Bilaspur	FW	OFC	CRP	Importance of fertilizer in Kharif crop	1	1					26			
Bilaspur	FW	OFC	OTH	Swachhh Bharat Abhiyan	1	1			9	24		1	1	
Bilaspur	FW	OFC	WOE	Value addition of vegetables	1	1						23		
Bilaspur	FW	ONC	PLP	Mushroom Prod. Training	1	2	2	4	5		1	2	6	2
Bilaspur	FW	OFC	HOV	Production technique in rabi vegetables	1	1					18		2	
Bilaspur	FW	OFC	OTH	Celebration of Hand washing day	1	1				28				
Bilaspur	FW	OFC	PLP	Mushroom Prod. Training	2	1						20		



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	6	7	8	9	10	11	12	13	14	15
Bilaspur	FW	ONC	CBD	Post Harvest storage and improved prod. Tech.	1	2	4		6		7		24	
Bilaspur	FW	ONC	CBD	Krishak Vaigyanik Parisanwad	1	1	2		5		5		10	
Bilaspur	FW	OFC	PLP	Importance of seed treatment in Rabi crop	1	1	0	0	14	0	0	0	1	0
Bilaspur	FW	OFC	WOE	Pre FLD training in kitchen gardening and importance of seed treatment	2	1	0	0	0	0	3	21	0	0
Bilaspur	FW	OFC	WOE	Pre FLD training in malnutrition	1	1						5		1
Bilaspur	FW	OFC	WOE	Fe deficiency in school going children	1	1								14
Bilaspur	FW	OFC	HOV	Improved cultivation practice of Rabi season veg. crop	1	1						12		
Bilaspur	FW	OFC	PLP	Pre FLD training in mushroom cultivation	1	1	0	0	0	0	0	16	0	0
Bilaspur	FW	ONC	CBD	PPV & FR trainig	1	1	17		13		13	1	14	2
Bilaspur	FW	ONC	PLP	Isolation, purification and mushroom culture	3	1	0	2	1	0	0	2	1	1
Bilaspur	IS	ONC	EXP	In Service training	1	1	9	0	4	3	3	4	3	0
Bilaspur	FW/Ry	ONC	PLP	Mushroom Prod. Training	2	5	0	0	1	2	2	7	3	0
Bilaspur	FW	OFC	WOE	Training on malnutrition and hygiene	1	1		1				8		2
Bilaspur	FW	OFC	WOE	Importance of diet in adolescent girl for Anaemia its symptoms and dietary sources	1	1					1	7		
Bilaspur	FW	ONC	CRP	Training on organic farming of Rice	1	1					15		1	
Bilaspur	FW	OFC	OTH	Production and protection of Rice	1	1					33	11	12	
Bilaspur	FW	OFC	PLP	important disease of rabi crops and their management	2	1			11					
Bilaspur	FW	OFC	HOV	improved cultivation of cucurbitaceous crop	2	1	2		1		4		26	

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	6	7	8	9	10	11	12	13	14	15
Bilaspur	FW	OFC	PLP	Important disease in rabi crops and their management	2	1					8			
Bilaspur	FW	OFC	WOE	Processing of Tomato	1	1						16		5
Bilaspur	FW	ONC	CRP	Training on organic farming	2	1	2				16		7	
Bilaspur	FW	ONC	CRP	improved rabi & Summer crop production	1	1	1		6				13	
Bilaspur	FW	ONC	CRP	Improved production techniques for wheat and chickpea	1	1	24		4		8			
Bilaspur	FW	ONC	HOV	Importance of fruit crops its transplanting and nutritional management	1	1					16		2	
Bilaspur	FW	OFC	WOE	Processing of tomato and its product	1	1						8		3
Bilaspur	FW	ONC	CRP	Importance of organic farming	2	1					6		1	
Bilaspur	RY	ONC	AEG	Krishi yantro ka rakha rakhao avm upyog	1	1	21		12		15		3	
Bilaspur	FW/RY	OFC	OTH	TSP Training (IFS )	07	07					99	165	0	
Bilaspur	FW/RY	OFC	OTH	Sindoor Training	02	02					30	35	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
Bilaspur	Mushroom cultivation & Spawn Production	Mushroom	Employment Generation	05	04	-	03	-	-	-	07	01
Bilaspur	Integrated Farming system	System	Employment Generation	07	-	-	-	-	99	165	-	-
Bilaspur	Sindoor Cultivation and its processing	Sindoor	Employment Generation	03	-	-	-	-	30	35	-	-
Bilaspur	Mushroom cultivation and its processing	Mushroom	Employment Generation	05	-	-	01	02	02	07	03	-

**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 elsewhere
		Type of units	Number of units	Number of persons employed	
-	-	-	-	-	-

**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/R/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		
Bilaspur	Integrated farming system	OTH	Production, protection, employment generation etc.	FW/R/RY	07	02					9	165	0		TSP ICAR	3075000.00
Bilaspur	Cultivation of Sindoor and its processing	OTH	Production and processing of sindoor	FW/R/RY	02	02					3	35	0		TSP ICAR	
Bilaspur	Plant Protection Variety & Farmer Right	OTH	Awareness programme	FW/R/RY	1	1	1		13		1	1	1	2	PPV & FR	80000.00
							7				3		4			

**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/R/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		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**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	
-	-	-	-	-	-	-	-	-	-

## 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			
Bilaspur	Field Day	06	06	40	03	135	10	-	-	Dissemination of Technology	Weed control & fertilizer management in Rice, SRI	Tillering stage
Bilaspur	Kisan Mela	-	02	298	23	169	13	-	-	Dissemination of Technology	Various issues related to production technology	harvesting stage
Bilaspur	Kisan Ghosthi	03	03	36	0	43	0	-	-	Dissemination of Technology	Various issues related to production & protection technology	Different stage of crop
Bilaspur	Exhibition	05	05	1065	273	126	55	36	20	Dissemination of Technology	Various issues related to production technology	Different stage of crop
Bilaspur	Film Show	34	34	389	109	128	57	17	12	Dissemination of Technology	Various issues related to production & protection technology	Tillering Stage
Bilaspur	Method Demonstrations	-	20	69	29	39	14	-	-	Dissemination of Technology	Various issues related to production & protection technology	Different stage of crop
Bilaspur	Farmers Seminar	-	-	-	-	-	-	-	-	-	-	-
Bilaspur	Workshop	16	16	-	-	-	-	320	33	Preparation of lesson plan & feed back of farmer's problems	Various issues related to production & protection technology	Different stage of crop
Bilaspur	Group meetings	-	8	189	29	137	15	-	-	Dissemination of Technology	Various issues related to production & protection technology	Different stage of crop
Bilaspur	Lectures delivered as resource persons	-	68	142	23	107	10	-	-	Dissemination of Technology	Various issues related to production & protection technology	Different stage of crop
Bilaspur	Newspaper coverage	-	36	Mass						Dissemination of Technology	Various issues related to production & protection technology	Different stage of crop

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			
Bilaspur	Radio talks	-	19	Mass						Dissemination of Technology	Various issues related to production & protection technology	Different stage of crop
Bilaspur	TV talks	-	10	Mass						Dissemination of Technology	Various issues related to production & protection technology	Different stage of crop
Bilaspur	Popular articles	-	12	Mass						Dissemination of Technology	Various issues related to production & protection technology	Different stage of crop
Bilaspur	Extension Literature	-	2	Mass						Dissemination of Technology	Various issues related to production & protection technology	Different stage of crop
Bilaspur	Farm advisory Services	-	-	!	!	!	!	!	!	-	-	-
Bilaspur	Scientific visit to farmers field	-	71	359	69	689	258	!	!	To solve the field problems	Various issues related to production & protection technology	Different stage of crop
Bilaspur	Farmers visit to KVK	-	124	1690	23	845	70	!	!	awareness of technology	Various issues related to production & protection technology	Different stage of crop
Bilaspur	Diagnostic visits	12	22	165	5	119	4	25	3	Integrated management	Identification of Disease, insect & Management techniques	Different stage of crop
Bilaspur	Exposure visits	-	2	92	!	48	!	7	!	Field visit	Organic cultivation	Physical maturity
Bilaspur	Ex-trainees Sammelan	-	-	!	!	!	!	!	!	-	-	-
Bilaspur	Soil health Camp	-	-	!	!	!	!	!	!	-	-	-
Bilaspur	Animal Health Camp	-	01	8	!	16	!	!	!	Vaccination of animals	Vaccination of animals	Kharif and Rabi season
Bilaspur	Agri mobile clinic	-	-	!	!	!	!	!	!	-	-	-
Bilaspur	Soil test campaigns	-	-	-	-	-	-	-	-	-	-	-
Bilaspur	Farm Science Club conveners meet	-	-	-	-	-	-	-	-	-	-	-
Bilaspur	Self Help Group conveners meetings	-	-	-	-	-	-	-	-	-	-	-

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			
Bilaspur	Mahila Mandals conveners meetings	-	-	-	-	-	-	-	-	-	-	-
Bilaspur	Celebration of important days (World environment day)	-	05	108	20	125	65	-	-	Awareness	Nutrition, Environment , hygiene, eradication	As per day celebration

## 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
Bilaspur	Since March 1999	Quarterly (Indira Kisan Mitan)	2000	2000

### 7.2 Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Bilaspur	Folder	Dhan ke kit Niyantal Hetu Kitnasak dawa Aum Anusanshit Matra	Vinod K.Nirmalkar, Dushyant Kaushik & R.N.Sharma	500
Bilaspur	Research Paper	Quality seed production of Wheat	Shilpa Kaushik, Dr. K.R. Sahu, N.K. Patel and N. Pathak	-
Bilaspur	Research Paper	Large scale technology disseminated through Krishak Sangwari a Study	Vinod K.Nirmalkar, Dushyant Kaushik, R.N.Sharma, Shilpa Kaushik & other	-
Bilaspur	Research Paper	Enhancing farm income and employment generation through Mushroom cultivation and spawn production a study	Vinod K.Nirmalkar, Dr. Kiran Gupta, Dr. D.K. Shrivastava, Dr.K.R. Sahu, & other	-
Bilaspur	Research Paper	Impact of knowledge and skill development of women in Bilaspur district regarding fruit and vegetable preservation training	N. Pathak, Shilpa Kaushik & Dr. K.R. Sahu	-
Bilaspur	Research Abstract	Impact of weed management and Climate change on Rice production of district Bilaspur	Shilpa Kaushik, Dr. R.N. Sharma and N. Pathak	-
Bilaspur	Research Abstract	New source of addible, medicinal and anti oxidant activity mushroom Rhizopogon (Boda or sarai mushroom) from Bilaspur district of C.G.	Vinod K.Nirmalkar, P.K. Verma and R.N.Sharma	-
Bilaspur	Research Abstract	Management of vegetable nursery diseases using bio control agents	Vinod K.Nirmalkar, R.K.S. Tiwari and R.N.Sharma	-
Bilaspur	Research Abstract	Screening wheat genotype against brown rust in Chhattisgarh	A.P. Agrawal, Vinod K.Nirmalkar, and D. Pandey	-
Bilaspur	Research Abstract	Assessment of antagonistic microorganism against wilt complex of chickpea through seed and soil	Vinod K.Nirmalkar, R.K.S. Tiwari and R.N.Sharma	-

		treatment		
Bilaspur	Research Abstract	Prevention of malnutrition of pre school children in the village Navgawan and Lalpur	N.Pathak, K.Gupta, R.N.Sharma and Shilpa Kaushik	-
Bilaspur	Research Abstract	Impact of Summer ploughing on wheat population in DSR at NICRA village Khargahna	Shilpa Kaushik, U.K. Dhruw, N. Pathak, R.N. Sharma and Vinod Nirmalkar	-
Bilaspur	Research Abstract	Stress management of women entrepreneurs	N.Pathak, J.R. Tiwari	-
Bilaspur	Research Abstract	Climate change and food security for farmers and farm women through mushroom as a diet	N.Pathak, Shilpa Kaushik and R.N.Sharma	-
Bilaspur	Research Abstract	A study on adjustment of high school students in relation to gender and academic achievement	N.Pathak, Dr. J.R. Tiwari, Rekha Diwan	-
Bilaspur	Research Abstract	A need based study on the system of rice intensification. A tool to overcome stagnation in rice fields for different villages in Bilaspur district	Shilpa Kaushik, U.K. Dhruw, N. Pathak, R.N. Sharma	-
Bilaspur	Research Abstract	A study on adjustment of high school students in relation to gender and academic achievement	N.Pathak, Dr. J.R. Tiwari, Alka Verma	-

### 7.3 Details of Electronic Media Produced

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

## 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.)
Bilaspur	Cereals	Paddy	Rajeshwari	264	4,32,000	Mass	400
Bilaspur	Cereals	Wheat	GW-273	96	1,20,000	Mass	180
Bilaspur	Pulses	Pigeonpea	Rajeevlochan	2.40	9600	05	12

### 8.2 Planting Material production

KVK Name	Major group/class	Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Bilaspur	Vegetables	Chilli	Hybrid	1200	1200	100	0.20
Bilaspur	Vegetables	Tomato	Hybrid	1200	1200	100	0.30
Bilaspur	Vegetables	Cabbage	Hybrid	600	600	50	0.18
Bilaspur	Vegetables	Cauliflower	Hybrid	820	820	70	0.20

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

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.)
Bilaspur	Mushroom Cultivation unit	Fresh Mushroom	41.62	-	3,330	44	-
Bilaspur	Spawn production unit	Commercial Spawn	476.75	1907	29,605	67	Used in 4767.50 Kg of dry straw
Bilaspur	Spawn production unit	Mother Spawn	37.50	15	1125	5	For preparation of 450 packets of Spawn
Bilaspur	Spawn production unit	Pure Culture	-	02	300	2	For Preparation of mother spawn
<b>G. Total</b>					33,360	118	

### 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
Bilaspur	Milk	HF	Fresh Milk	11220.5	342495.00	53
Bilaspur	Fish	Rohu	Fresh Fish	46	4600.00	52

## 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)
Bilaspur	Running	2006	NPK analysis	51	35	12	10,200	35

### 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
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								(Nos)
			NIL					

### 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
Bilaspur		NIL								

### 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)
Bilaspur			NIL					

### 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
Bilaspur	2015	2015	04	Nil	-

### 13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Bilaspur	16.06.2014	30	OFT conducted in leading crop of district.
			More emphasis of value addition of Karonda
			Conduct Impact study of SRI in Bilaspur district.

### 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.		

Bilaspur	122	2367	48	Farmers Portal	Crop production technology, Plant Protection, Fruit & vegetable production, preservation, livestock management, poultry, climate information etc.
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### 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
Bilaspur	ATMA	Central	241249.00	Technical advice	Bilaspur district	
Bilaspur	TSP (Vocational Trainings development of IFS model and Sindoor cultivation)	Central	3075000.00	Training and demonstration	Gaurella Block	
Bilaspur	NICRA	Central	710800.00	Technical advice, Training and demonstration etc.	Khargahna (Kota)	
Bilaspur	TSP (Weed Control)	Central	100000.00	Training and demonstration	Nawagaon (Pendra)	
Bilaspur	SCP	Central	1153000.00	Mushroom, Sindoor processing, Farm development etc.	KVK Bilaspur	
Bilaspur	PPV & FR	Central	80000.00	Awareness regarding farmer rights and collection of local varieties	Bilaspur District	

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

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Bilaspur	10190926639	416812.00	559667.00	559667.00

### 17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Bilaspur	Shri Dwarikesh Pandey	Ind.Farmer/Rice Award	DRR, Hyderabad	1,00,000.00
Bilaspur	Shri Devnath Dewangan	Ind.Farmer/Krishak Fellowship Award	IGKV, Raipur	5000.00
Bilaspur	Shri Dhruw Kumar Tiwari	Ind.Farmer/Krishak Fellowship Award	IGKV, Raipur	5000.00
Bilaspur	Shri Pradeep Sidar	Ind.Farmer/Krishak Fellowship Award	IGKV, Raipur	5000.00
Bilaspur	Shri Balram Marko	Ind.Farmer/Krishak Fellowship Award	IGKV, Raipur	5000.00

Bilaspur	Shri Shrikant Goverdhan	Ind.Farmer/Krishak Fellowship Award	IGKV, Raipur	5000.00
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## 18. Details of KVK Agro-technological Park .

### 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.)
-	-	-	-

### b) Details about Technology Park

Name of KVK	Name of Component of Park	Detail Information (If established)
Bilaspur	Crop Cafeteria	Different crops i.e. Rice, Wheat, Mustard, Chickpea, Mushroom
	Technology Desk	Different Publication for Dissemination of Technology
	Visitors Gallery	Mushroom & Spawn, Dairy, Vegetables, Agroforestry, Fishery, Bio-fertilizer production unit etc.
	Technology Exhibition	Through Kisan Mela, Gosthi, Kisan Diwas, Group Discussion
	Technology Gate-Valve	

### c). Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria
1	Demonstration and Dissemination of Local scented Rice varieties	1
2	Demonstration and Dissemination of Wheat Varieties	1
3	Demonstration and Dissemination of Chickpea	1
4	Demonstration and Dissemination of Medicinal Plants	1
5	Demonstration and Dissemination of Ornamental plants	1
6	Demonstration and Dissemination of different Mushroom Strain	1
7	Demonstration and Dissemination of different vegetable crops	1
8	Demonstration and Dissemination of nutritional garden	1

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

Sr. No.	Name of KVK	Name of Farm Innovator	Name of the Innovation	Address of the farmer with Mobile No.
1	Bilaspur	Shri Rakesh Kumar Kashyap	Flower production	Mangla, 9827158497
2	Bilaspur	Shri Bharat Chetral	Crop Diversification	Mopka, 8120101010
3	Bilaspur	Shri Ram Kumar Saini	Young Kheti	Puraina, 9406439856
4	Bilaspur	Mr. Avinash	Mushroom Production	Bilaspur-98279-44028
5	Bilaspur	Mr. Dharam Shrivastava	Mushroom & Spawn Production	Masturi, 8225820964
6	Bilaspur	Mr. Surendra Kashyap	Drip irrigation in vegetable	Sendri, 9827111083
7	Bilaspur	Shri Sangram Singh Paikra	SRI in Rice	Birgahni, 8461036474
8	Bilaspur	Shri Devnath Devagan	Integrated and organic Farming	Goband, 9098727759
9	Bilaspur	Shri Sanjay Dhurve	SRI in Rice	Bhaisajhar, 9669119897
10	Bilaspur	Shri Raghavendra Singh Chandel	Rice & Wheat Seed Production Cultivation	Masturi, 9827467991

### 20. KVK interaction with progressive farmers

KVK Name	Date and month of interaction programme with progressive farmers	No. of progressive farmers to be participated
Bilaspur	25-May-14	4
Bilaspur	31-May-14	3
Bilaspur	27-Jun-14	5
Bilaspur	07-Dec-14	11
Bilaspur	25-Feb-15	18
Bilaspur	28-Feb-15	21
Bilaspur	01-Mar-15	78
Bilaspur	03-Mar-15	43
Bilaspur	06-Mar-15	32
Bilaspur	08-Mar-15	29
Bilaspur	10-Mar-15	9
Bilaspur	29-Mar-15	23

### 21. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive

KVK, Bilaspur	03	06	04	48

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
01		NA		

## 23. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
1	KVK, Jangir- Champa, Korba, Raigarh	Trainings, Workshops	Technology dissemination

## 24. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Bilaspur	Dr. U.S. Gautam, P.S. ZPD Zone VII, Jabalpur (M.P.)	19.07.2014	ICAR			Visited village alongwith DES, Dr. M.P. Thakur interact with officer of Agril. Dept. and ATMA found that 80% area cover under Paddy crop mostly cultivated are as direct sowing.
Bilaspur	Shri Dwarikesh Pandey, Board member, IGKV, Raipur	30.07.2014 & 12.12.2014			IGKV, Board Member	Inspect KVK found remarkable work benefited to farmers.
Bilaspur	Shri Rajesh Baghel, JDA, Silk, Bilaspur	09.10.2014			JDA, Silk, CG Govt.	Farmer oriented information collected and also metrological information found.
Bilaspur	Dr. M.P. Thakur, DES, IGKV, Raipur	25.11.2014		SAU		KVK in a very good condition good condition of wheat, plan of orchard, dairy and processing unit.
Bilaspur	Dr. J.S. Urkurkar, DRS, IGKV, Raipur	25.11.2014		SAU		
Bilaspur	Dr. Siddharth Rath, RM, CWC, Raipur	26.11.2014			RM, CWC, Raipur	The maintaince coordination relationship and work membership

						is appreciated.
<b>Bilaspur</b>	Shri P.C. Pandey, Secretary, Govt. of CG, Raipur	<b>05.12.2014</b>			Secretary, Govt. of CG, Raipur	Interact with officer of Agril. Dept. in monthly workshop. Interaction is very rich and meaningful.
<b>Bilaspur</b>	Shri M.K. Chandrakar, MD, Seed Certification, Raipur	<b>05.12.2014</b>			MD, Seed Certification, Raipur	Very good conducting of monthly workshop interaction with scientist. Good feedback from line department.
<b>Bilaspur</b>	Shri J.S. Kakoriya, DDA, Bilaspur	<b>05.12.2014</b>			DDA, Bilaspur	Very good conducting of monthly workshop interaction with scientist.
<b>Bilaspur</b>	Shri Bajrang Kedia, Award winning Farmer, Ganiyari	<b>12.12.2014</b>			Award winning Farmer, Ganiyari, Bilaspur	
<b>Bilaspur</b>	Shri A.K. Sahu, CGM, NABARD, Bilaspur	<b>11.02.2015</b>			CGM, NABARD, Bilaspur	Good KVK activities.

## 25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
<b>1</b>	<b>Bilaspur</b>	<b>09.01.2014</b>	<b>165</b>	<b>1500</b>

## 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			
<b>Bilaspur</b>			<b>NIL</b>				

**27. Status of RTI**

<b>Sr. No.</b>	<b>Name of KVK</b>	<b>No. of RTI applications received</b>	<b>No. of RTI appeals</b>	<b>Remarks</b>
		NA		

**28. Status of Citizen Charter**

<b>Sr. No.</b>	<b>Name of KVK</b>	<b>Query received( Nos)</b>	<b>Query Disposed( Nos)</b>	<b>Remarks</b>
		NIL		

**29. Attended HRD Programmes organized by ZPD**

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Bilaspur	Shilpa Kaushik	Subject matter Specialist (Agronomy)	01	Weed Management
	<b>Total</b>			

Name of KVK	Total Number of staff Attended HRD Programme organized by ZPD (nos)	Total Number of Programme attended (Nos)
Bilaspur	01	01

**30. Attended HRD Programmes organized by DES**

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Bilaspur	Rajeev Dixit	Subject matter Specialist (Horticulture )	02	Orientation & Climate based
Bilaspur	Shilpa Kaushik	Subject matter Specialist (Agronomy)	01	Climate based
Bilaspur	Prasaant Said	Subject matter Specialist (AP & FE)	01	Orientation
Bilaspur	Sushila Ohdar	Programme Assisstant (Computer)	01	ICT in Agriculture

Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
Bilaspur	04	03

**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
Bilaspur	Dr. K.R. Sahu	Programme Coordinator	01	E-governence, Hyderabad
Bilaspur	Vinod Kumar Nirmalkar	Subject matter Specialist (Plant Pathology)	01	Mushroom cultivation at DMR, Solan H.P.
Bilaspur	Devendra Upadhyay	Subject matter Specialist (Horticulture)	01	SAMETI

Name of KVK	Total Number of staff Attended HRD Programmes by KVK staff (nos)	Total Number of Programmes attended (Nos)
Bilaspur	03	03



**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
	NIL		

**33. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS**

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	NIL			

**34. INTERVENTIONS ON DROUGHT MITIGATION**

**Introduction of alternate crops/varieties**

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

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

Name of KVK	Crops	Area (ha)	Number of beneficiaries
	NIL		

**Farmers-scientists interaction on livestock management**

Name of KVK	Livestock components	Number of interactions	No. of participants
NIL			

**Animal health camps organized**

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

**Seed distribution in drought hit states**

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

**Seedlings and Saplings distributed**

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
<b>Seedlings</b>				
	NIL			

**Bio-control Agents**

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

**Bio-Fertilizer**

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

**Vermis Produced**

Name of KVK	Vermis Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers
		NIL		

**Large scale adoption of resource conservation technologies**

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

### 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
					NIL							

## 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
Summer Ploughing	Paddy (MTU1010)	10	37.5 q	-	21
Direct Seeded Rice	Paddy(MTU1010)	12	30 q	36	30
Drought and <i>Helicoverpa</i> resistance variety	Arhar((ICPL-85063)	4.8	7q	75	22
Introduction of new crop	Til(GT-10)	6.8	4 q	50	17
Variety for limited irrigation	Wheat (GW-273)	4.5	19.7 q	25	11
Thermo heat resistance variety	Chickpea(J.G-74)	2.4	6 q	50	6
Thermo heat resistance variety	Chickpea (JAKI-9218)	4	6 q	50	14
Introduction of new crop	Corriender(Delite)	4.8	7 q	50	12
Community vegetable nurseries	Tomato (Aniruddh)	2	100	25	10
	Brinjal (VNR-218)	2	125	50	10
Intercropping	Gram(JAKI-9218) + Safflower(JS1-7)	5.6	6+4 q	75	14
	Gram(JAKI-9218) + Corriender(Delite)	2	7+6 q	55	5
Introduction of new crops (drought)	Safflower (JSI-7)	5 ha	6	50	15

Vegetable production for Income generation	Tomato (Aniruddh,Laxmi)	2 ha	100	25	15
	Cowpea (VNR-Shweta)	1 ha	70		6
	Bittergourd(VNR-22)	2 ha	80		6
	Brinjal (VNR-218)	2 ha	125		15

## 2. Proposed Extension Activities in NICRA Village

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total
Krishak Sangosthi	37	-	5	42
Farmer Visit	50	-	10	60

## 3. Proposed Training Activities in NICRA Village

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total
ICAR Foundation day	77	8	10	95
Agri. Implement to reduce drudgery for farm women	-	11	-	11
Krishi Machinery at Khargahna	12	-	-	12
Harvesting techniques by repar	14	-	-	14
Seed storage technique	20	-	-	20
Proper using techniques of rotavator	19	-	--	19
Sowing technique wheat seed by seed drill	18	-	-	18
Nursery bed Preparation	16	-	-	16
Seed and soil treatment of tomato and brinjal	19	-	-	19

**4. Proposed Activities for Fodder Bank**

<b>Established (Years)</b>	<b>Capacity</b>	<b>Current Status</b>

**5. Proposed Activities for Seed Bank**

<b>Established (Years)</b>	<b>Capacity</b>	<b>Current Status</b>
2015	2 tone	2 tone

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

<b>Name of Representative/Officer</b>	<b>Designation</b>	<b>Date of Visit</b>	<b>Any Special Remark by Visitors</b>
NIL			

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

NIL

**36. Proposed works under NAIP (in NAIP monitoring format)**

NIL

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

## कृषि विज्ञान केन्द्र बिलासपुर के मार्गदर्शन से सफल स्वरोजगार की कहानी

कृषक का नाम	:-	श्री धरम श्रीवास पिता स्व.श्री रथराम
जाति	:-	पिछड़ा वर्ग
पता	:-	ग्राम लिमतरा, तहसील-मस्तूरी जिला बिलासपुर
शिक्षा	:-	स्नातकोत्तर
व्यवसाय	:-	कृषि
कृषि भूमि का रकबा	:-	5 एकड़ (3.5 एकड़ सिंचित एवं 1.5 एकड़ असिंचित)
परिवार सदस्य	:-	10 सदस्य
अंगीकृत तकनीकी	:-	मशरूम एवं बीज उत्पादन (स्पॉन)



पारिवारिक सदस्यों की संख्या ज्यादा होने एवं कम कृषि कार्य के कारण परिवार की आर्थिक स्थिति चिंतनीय थी। चूंकि मैं स्नातक था तथा एक ऐसे व्यवसाय की खोज में था जिसे प्रारंभ कर परिवार की आर्थिक स्थिति सुधार कर परिवार के सदस्यों को इस व्यवसाय में लगा सकूं। मैं किराना व्यवसाय, मुर्गीपालन एवं सब्जी की खेती के द्वारा अपनी आर्थिक उन्नति की ओर सोचता था।

इसी दौरान कृषि विज्ञान केन्द्र, बिलासपुर द्वारा मशरूम स्वरोजगार के संबंध में समाचार पत्र में प्रकाशित खबर को पढ़ा तथा कृषि विज्ञान केन्द्र, बिलासपुर के वैज्ञानिकों से सम्पर्क किया तथा इस संबंध में विस्तृत जानकारी प्राप्त की एवं इस संबंध में स्वयं प्रशिक्षण प्राप्त किया तथा परिवार के सदस्यों को भी प्रशिक्षण के माध्यम से अवगत कराया। मैंने मशरूम की खेती जून 2013 में प्रारंभ की।

कृषि विज्ञान केन्द्र, बिलासपुर द्वारा जब नवम्बर 2013 में मशरूम स्पॉन प्रयोगशाला प्रारंभ किया गया तथा मुझे आमंत्रित किया गया तब मुझे आयस्टर मशरूम की अन्य किस्में जैसे सजर काजू, आस्ट्रेटस, ओयूस के बारे में तथा मिल्की मशरूम, पैरा मशरूम, बटन मशरूम के बारे में जानकारी मिली तथा लगातार स्पान मिलने लगा जो एक प्रमुख समस्या थी।

इकाई	अंगीकरण के पूर्व	अंगीकरण के पश्चात्
मशरूम उत्पादन	जानकारी नहीं थी	आयस्टर एवं पैरा
आयस्टर मशरूम की प्रजाति	—”—	फ्लोरिडा, सजर काजू, आस्ट्रेटस, ओयूस
मशरूम बैग	—”—	350—400
खर्च प्रति बैग (1 किलो)	—”—	20 रुपये
उत्पादन ग्राम/किलो	—”—	800
कुल उत्पादन किलो	—”—	240
<b>शुद्ध आय</b>	<b>निरंक</b>	<b>13000 /—</b>
<b>बीज निर्माण :</b>		

मशरूम बीज बैग	जानकारी नहीं थी	300
व्यय	—”—	3000 /—
विक्रय दर	—”—	20 /—
<b>शुद्ध आय</b>	<b>निरंक</b>	<b>3000 /—</b>
<b>कुल आय</b>	<b>निरंक</b>	<b>16000 /—</b>

घर की खेती से प्राप्त आय के अतिरिक्त 4-5 माहिने में 16000 /— प्राप्त किया। मशरूम निकलने के पश्चात् बचे बैग से मैं खाद बनाता हूँ तथा अपने खेतों में तथा घर के किचन गार्डन में इसका उपयोग करता हूँ।

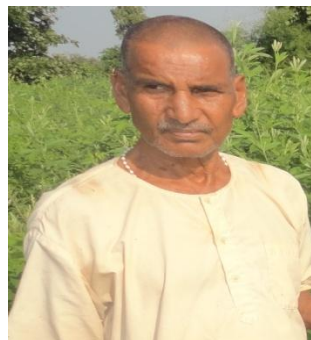
मुझे कृषि विज्ञान केन्द्र, बिलासपुर से सतत् मार्गदर्शन, सहयोग, मशरूम बीज एवं मातृ कल्चर की उपलब्धता होते रहता है। केन्द्र के विषय वस्तु विशेषज्ञ श्री विनोद निर्मलकर से विशेष मार्गदर्शन प्राप्त होता रहता है, साथ ही अन्य विशेषज्ञों का भी सहयोग अन्य कृषि कार्य में रहता है।

निसंदेह मुझे मशरूम की खेती एवं बीज का निर्माण कर मेरी आर्थिक स्थिति में उत्थान हुआ है जिसके कारण मैं अपने परिवार के सदस्यों की जरूरतों को पूरा करने में सक्षम हो रहा हूँ।

मैं किसान भाईयों को सलाह एवं संदेश देना चाहता हूँ कि किसान भाई कृषि विज्ञान केन्द्र से जुड़े एवं उनकी योजनाओं, तकनीकी जानकारी का लाभ उठावें तथा सतत् लगन, मेहनत एवं अच्छी वैज्ञानिक सलाह से मशरूम की खेती करें और खुद को स्वावलंबी बनायें।

## निकरा परियोजना के माध्यम से बहुफसलीय एवं अन्तर्वर्तीय फसलों द्वारा आय में वृद्धि के आयाम

कृषक का नाम : माधोराम साहू  
 पिता का नाम : गजानंद साहू  
 उम्र : 60 वर्ष (अन्तर्वर्तीय खेती)  
 शिक्षा : 5वीं  
 कृषि का अनुभव : 25 वर्ष  
 ग्राम : खरगहना  
 ब्लाक : तखतपुर  
 जिला : बिलासपुर



पूर्व में मेरे पास कुल 13 एकड़ जमीन थी। जिसमें मैंने 5 एकड़ जमीन में वर्षा आधारित केवल धान की ही खेती करता था बाकी जमीन पड़ती भूमि थी जो कि हमेशा खाली रहती थी। जिसमें मैं कोई कृषि कार्य नहीं कर पाता था एवं इससे मुझे कोई आय प्राप्त नहीं होता था। अब जब से मैं निकरा परियोजना के सम्पर्क में आया तब से मेरा कृषि कार्य अनुभव वैज्ञानिक स्वरूप लेने लगा। अब मैं खरीफ में 8 एकड़ खाली पड़ी भूमि में 4 एकड़ में सब्जी की खेती उन्नत तकनीक से तथा 4 एकड़ में धान, अरहर, मूंग आदि की फसल लेने लगा हूँ। जिससे मुझे बहुत लाभ प्राप्त हो रहा है।

पहले खरीफ में धान लेने के बाद मेरे खेत रबी में खाली रह जाते थे लेकिन जब से निकरा परियोजना के अन्तर्गत वैज्ञानिक सलाह, प्रदर्शन और प्रशिक्षण प्राप्त हुआ तब से रबी में गेहूँ, चना, कुसुम की अन्तर्वर्तीय खेती भी करने लगा हूँ। जिससे मुझे दोहरा लाभ मिला है जिसके द्वारा अब मैं ट्रेक्टर, रोटावेटर, 2 कल्टीवेटर केजव्हील के साथ-साथ 25 गाय एवं 2 जोड़ी बैल भी खरीद चुका हूँ। निकरा परियोजना के कारण जहां मैं सब्जी की खेती के साथ अनाज व दाल की फसल ले रहा हूँ। वही अब मैं अपने खेतों के लिए जैविक खाद भी तैयार कर रहा हूँ। निकरा परियोजना से जानकारी प्राप्त होने के बाद अब मैं केंचुआ कि खाद बना रहा हूँ। पहले मैं एक सामान्य कृषक की भांति सामान्य कमाता था किन्तु विपरीत जलवायु परिवर्तन में भी आज बाजार से ज्यादा भाव में सब्जी बेचता हूँ और सब्जियों की नई – नई किस्म के बारे में भी जानकारी प्राप्त हुई। कृषि मशीनरी होते हुए भी मैं सिर्फ अपना ही कृषि कार्य करता था किन्तु निकरा परियोजना की सहायता से गांव के अन्य कृषकों की भी सहायता कर पा रहा हूँ मैंने इस बार अपने खेत में अरहर की एलआरजी 41 किस्म लगाई जिससे मुझे पौधों में कीड़े बीमारी से छुटकारा के साथ साथ कम वर्षा में भी अधिक उत्पादन मिला है। इसे लगाने में 1 हेक्टेयर में 8500 रु. खर्च आता है। इसका उत्पादन 6 क्विंटल हुआ कुल मिलाकर 24 हजार रु. का मुनाफा हुआ। परियोजना के आने से मैं इस स्थिति में आ गया हूँ कि मैं सब्जी की खेती में टपक बूँद सिंचाई को अपनाकर सब्जियों के अधिक उत्पादन होने से मुझे बहुत अधिक लाभ हो रहा है।

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

Sr. no.	Name of KVK	No. of success stories	No. of case studies
1	Bilaspur	01	02

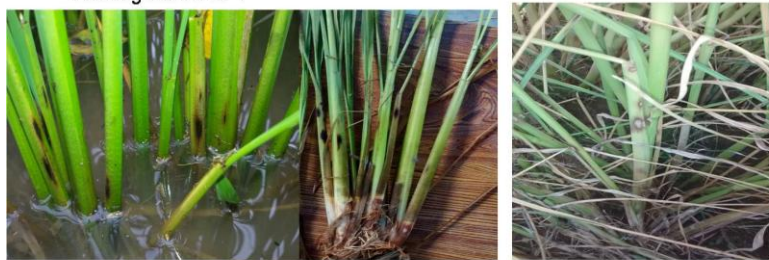


38. Well labeled Photographs for each activity of the KVK (Soft copies as well as hard copy- specially for all OFT along with the problem) –



Training before OFT

Disease identification in field



Disease at Tillering stage

Disease at panical stage



Training before OFT

Initial checkup



Distribution of Iron rich Laddu

OFT on o prevention of malnutrition through protein rich diet



Pre -testing of weight

Diatec Laddo



Distribution of Laddu among preschool children



TRAINING AND CRITICAL UNIT DITRIBUTION SUMMERPLOUGH

NO SUMMERPLOUGHED SUMMERPLOUGH



SPRAYING OF HERBICIDE

MATURE CROP





Multiplying of *Trichoderma* in rotted FYM



Treated seeds filled in seed box



Trichoderma Multiplied in FYM filled in Fertilizer box



Treatment of Chickpea seeds with *Trichoderma* followed by *Rhizobium* after Jaggery



Sowing of chickpea seeds using seed drill



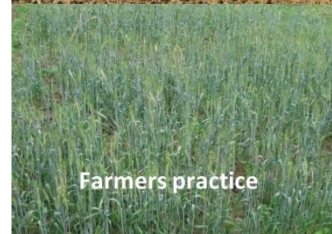
Untreated plot



Collar rot symptoms



Treated plot



Farmers practice



Sown by seed drill





उपचारित पत्तागोभी का खेत



तरल जैव उर्वरक का प्रयोग

Farmers Visited to KVK & Event Participation in IGKV



Farmers visit at KVK



Farmers visit at IGKV, Raipur



Farmers visit at KVK



Farmers visit at IGKV, Raipur

Visit of Dignitaries



Shri S. K. Pandey, Secretary (Ag.), Govt. of Chhattishgarh



Shri D. Pandey, Hon'ble Board member, IGKV, Raipur



Dr. U. S. Gautam, PS, ZPD VII



Dr. M.P. Thakur, DES IGKV, Raipur and Dr. C. R. Gupta, Dean TCB CARS, Bilaspur



Dr. M.P. Thakur, DES IGKV, Raipur, RM, CWC Raipur Mr. Rath and Dr. C.R.Gupta, Dean TCBCARS, Bilaspur



Dr. M.P. Thakur, DES IGKV, Raipur, RM, CWC Raipur Mr. Rath and Dr. C.R.Gupta, Dean TCBCARS, Bilaspur



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Soil testing & water Management

Training on Spawn and Mushroom production for Rural Youth



Mixing of chemicals in wheat



Mixing of spawn in paddy straw



Preparation of spawn bag



Inoculation of Mother spawn



Training on preparation of rice papad

Training before preparation

Preparation of rice flour for papad



Dignitaries visited Spawn Production & Cultivation Unit at KVK



Activities Under IFS training

Mushroom Cultivation

Maize Sheller





Distribution of Goats To SHG's of TSP Village Dugra & Kariyam Block Gaurella under TSP ICAR Project



Value addition of lemon, Jack Fruit, radish in surplus condition at TSP village kariyam



**Diagnostic Field Visit**

No. of Visit	No. of Farmers
22	321

**Joint Field Visits**

No. of Visit	No. of Block	No. of Farmers
06	05	156



Village: Birgahani, Nawgaon, Kormi



Village Sendari & Kormi





**Swachchha Bharat Abhiyan at KVK and Village**



**Safe Storage Training in Collaboration with Kendariya Bhundar**



**Participation in Kisan Mela/Exhibition/Gosthi**



Participation in International Trade Fair, New Delhi



Participation in Exhibition & opening of Mandi, Tifara Bilaspur



Participation in Competition Cum Exhibition, Rajnandgaon



Participation in PPV & FRA, Raipur





## Mass Media Coverage



### NEWS Paper coverage



### NEWS Paper coverage



### Participation in International / National Level



Participation in Zonal Workshop on Extension and IT Component NMAET, Bhubaneswar (Orissa) from Feb., 09-10, 2015



Participation in International Trade Fair, New Delhi  
Participation in ZONE-VII, PPV & FRA, Awareness & Training programme, Raipur