ANNUAL PROGRESS REPORT

April 2018 to March 2019

Krishi Vigyan Kendra, Kanker

Indira Gandhi Krishi Vishva Vidyalaya

Contents

REPORTING PERIOD – April 2018 to March 2019

Summary of KVK Annual Report (Quantifiable Achievement) for the year 2018-19

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
1	**On Farm Testing**			
	Proposed OFT	**-**	-	
	On Going OFT	**-**	-	
	Technologies assessed (Completed OFT)	**12**	70	
	Technologies refined	**2**	10	
	On farm trials conducted	**14**	80	
2	**Frontline demonstrations**	**-**	**-**	
-	Proposed Frontline demonstrations	-	-	
-	On Going Frontline demonstrations	-	-	
	FLDs conducted on crops	-	-	
	Area under crops (ha.)	208	452	
	FLD on farm implement and tools	2	20	
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	2	20	
	FLD on Fisheries - Finger lings	1	10	
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)	-	-	
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	1	10	
3	**Training programmes**	**No. of Course**	**Duration (days)**	**Participants**
	Farmers	61	61	1763
	Farm women	51	51	1463
	Rural youth	10	10	300
	Extension personnel/ In service	3	6	140
	Vocational trainings	4	7	80
	Sponsored Training	50	1	2623
	Total	118	75	4606
		No. of programmes	**Participants**	
4	**Extension Programmes**	464	11738	
5	**Production of technology inputs etc**	**Qty**	**Beneficiaries (nos.)**	
	Seed (qt.)	427	239	
	Planting material produced (nos.)	137846	4320	
6	**Livestock**	**Qty**	**Beneficiaries (nos.)**	
	Livestock strains (Nos)	11 calf 21kid	-	
	Milk Yield - Cow, Buffelo etc. (in liter)	5037	25	
	Fish (Kg.)	150	-	
	Fingerlings (nos.)	-	-	
	Poultry-Eggs (nos.)	-	-	
	Ducks (nos.)	152	10	
7	**Bio Products**	**Qty**	**Beneficiaries (nos.)**	

	Bio Agents -Earth worm (Kg.)	136		34
	Trichoderma (kg.)			
	Bio Fertilizers- Vermi compost, Rhizobium, PSB , BGA , Mycorriza , Azotobacter , Azospirillum etc. (Kg.)			
	Bio Pesticide-Panchgavya, Neem Extract , Neem oil etc.(lit.)			
8	**Any other significant achievement in the Zone**	**Nos.**	**Participants/ beneficiaries**	
	Award (Best KVK award and scientist and farmer's award)	6		-
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)	5		-
	KVK News letter	4		-
	SAC Meetings conducted	1		30
	Soil sample tested	478		1100
	Water sample tested	-		-
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)			
	KVK-KMA (Message and beneficiaries)	06		25083
	Convergence programmes	7		-
	Sponsored programmes			
	KVK Progressive Farmers interaction	8		154
	No. of Technology Week Celebrations	5		
	Attended HRD activities organized by ZPD	3		3
	Attended HRD activities organized by DES	-		-
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc.)	5		5
9	Current status of Revolving Funds (Amt. in Rs.)			
10		**No. of blocks**	**No. of villages**	
	Outreach of KVK in the District	7	125	
11		**ICAR**	**SAU**	**Others**
	No. of important visitors to KVK (nos.)	9	4	11
12		**Working (Yes/No)**	**No. of Update**	
	Status of KVK Website	Y	39	
13		**Application received**	**Application disposed**	
	Status of RTI (nos.)	-	-	
14		**Query received**	**Query dissolved**	
	Citizen Charter (nos.)	-	-	
15		**Working (Yes/No)**	**No. of programme viewed**	
	E-connectivity			
16		**Filled**	**Vacant**	
	Staff Position	11	5	
17	Workshop/ Seminar/ Conference attended by staff of KVK (nos)	4		
18	Publication received from ICAR /other organization (nos.)	11		
19		**Particulars**	**Organization**	
	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, 2018

Name of KVK	Sanctioned Posts	PC (1)		SMS (6)		PA (3)		Admn. (6)		Total	
		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
Kanker	16	1	1	6	6	3	2	6	3	16	12

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)
Kanker	Senior Scientist and head	Dr. Birbal Sahu	Agronomy	Ph.D.	Agronomy	37400-67000 + 9000	50720	05.12.07	Temporary	OBC
Kanker	Subject Matter Specialist1	Shri Suresh Markam	Horticulture	M.Sc.	Horticulture	15600-39100 + 5400	23640	29.10.14	Temporary	ST
Kanker	Subject Matter Specialist2	Er. Narendra Haridas Tayade	FMPE	Ph.D	FMPE	15600-39100 + 5400	25080	01.01.2019	Temporary	Gen
Kanker	Subject Matter Specialist3	Dr. D. Suryam Dora	LPM	MVSc	LPM	15600-39100 + 5400	21000	06.10.2018	Temporary	OBC
Kanker	Subject Matter Specialist4	Dr. Chandu Lal Thakur	Agronomy	Ph.D	Agronomy	15600-39100 + 5400	21000	11.10.2018	Temporary	ST
Kanker	Subject Matter Specialist5	Dr. Komal Singh Keram	Soil Science	Ph.D	Soil Science	15600-39100 + 5400	21000	23.10.2018	Temporary	ST
Kanker	Subject Matter Specialist6	Shri Upendra Kumar Nag	Plant Pathology	M.Sc.	Plant Pathology	15600-39100 + 5400	21000	11/01/2018	Temporary	ST
Kanker	Programme Assistant	Shri Dinesh sinha	Entomology	M.Sc.	Entomology	9300-34800/-	15210	29.10.14	Temporary	OBC
Kanker	Farm Manager	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant
Kanker	Computer Programmer	Shri Gyaneshwar Sahu	Computer	MCA	Computer	9300-34800/-	16140	03.10.12	Temporary	OBC
Kanker	Accountant / superintendent	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant
Kanker	Stenographer	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant
Kanker	Driver	Kamleshwar Sahu	12th	-	-	5200-20200/	8810	01.08.18	Temporary	OBC
Kanker	Driver	Shri Tilak Ram Dhruw	8th	-	-	5200-20200/	8810	01.04.13	Temporary	ST
Kanker	Supporting staff	Shri Harishankar Yadav	8th	-	-	4750-7440/-	7710	28.06.10	Temporary	OBC
Kanker	Supporting staff	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant

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

KVK Name	Agro-climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Kanker	Chhattisgarh plain & Bastar plateau	7	389	748941	68%	509280	110764	0.86 ha

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

KVK Name	Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
Kanker	Mohpur	2017	Kanker	16 km	1103	260
Kanker	Kapsi	2018	Kanker	25 km	1140	151

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

KVK Name	THRUST AREA
Kanker	Improvement in production and productivity of major crops like Paddy, Urd, Sesame, Chickpea, Wheat, Linseed and Maize by introduction of HYV within the existing situation.
Kanker	Nutrient management in major crops for obtaining potential yield and maintaining soil fertility.
Kanker	Diversification of existing farming systems through introduction of vegetables and fruit crops.
Kanker	Insect pest and disease management in major crops.
Kanker	Empowerment of women and generation of self-employment for rural youths.
Kanker	Recycling of farm and animal wastes through vermi-composting.
Kanker	Mechanization through introduction of improved implements.
Kanker	Management and up gradation of indigenous cattle breeds through AI services.
Kanker	Enhancement of profit with focus on value addition.

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

KVK Name	Problem identified		Methods of problem identification	Location name of village & Block
Kanker	Paddy	Imbalance use of fertilizers	PRA, Group Meeting & Individual Contact	Kulgaon, Aturgaon, Andi, Babudabena village of Kanker Block Kotela, Aroud, Tarasgaon, Piproud village of Charama Block
		Infestation of weeds	--do--	--do--
		Low yield of upland rice	--do--	--do--
		Incidence of stem borer & blast in paddy	--do--	--do--
Kanker	Seasame	Use of local verity seed	--do--	--do--
		Imbalance use of fertilizer	--do--	--do--
		Broad casting method of sowing	--do--	--do--
Kanker	Blackgram	Imbalance use of fertilizers	--do--	--do--
		Use of poor quality seed	--do--	--do--
		Infestation of yellow mosaic	--do--	--do--
Kanker	Maize	Low yield due to maize – maize cropping sequence	--do--	--do--
Kanker	Chickpea	Imbalance use of fertilizers	--do--	--do--
		Infestation of pod borer & wilt disease	--do--	--do--
Kanker	Linseed	Broad casting method of sowing (utera)	--do--	--do--
		No use of fertilizer in utera crop	--do--	--do--
Kanker	Small millets	Imbalance use of fertilizers	--do--	--do--
		Broad casting method of sowing	--do--	--do--
		No use of improved variety	--do--	--do--
Kanker	Horticultural crops	Non availability of Improved Variety	--do--	--do--
		Lack of storage facilities	--do--	--do--
		Lack of irrigation facilities	--do--	--do--
Kanker	Live stock	Low milk yield in cow due to Imbalance feeding	--do--	--do--
		Non-availability of quality roughage during summer	--do--	--do--
		Temporary infertility, low conception rate, failure of oestrus, high cost of treatment	--do--	--do--
		Lack of awareness regarding disease, ecto & endo parasites management in Livestock	--do--	--do--
Kanker	Soil	Undulated topography of land, which leads to soil erosion.	--do--	--do--
		Decreasing soil health due to low organic carbon content	--do--	--do--
Kanker	Mechanization	unavailability of improved implements Implements	--do--	--do--
		labour scarcity	--do--	--do--
		Economic problems	--do--	--do--
		Lack of awareness about improved machine	--do--	--do--

2. On Farm Testing (OFT)

2.1 Information about OFT

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Thematic Area	Crop/ enterprise	Farming Situations	No. of trials	Results (q/ha)			Net Returns (Rs./ha)			Recommendations
										FP (T_1)	RP (T_2)	T3	FP (T_1)	RP (T_2)	T3	
Kanker	2018-19	Rabi	Low yield in Maize due to imbalance fertilization	Assessment of Integrated nutrient management in Maize	Assessment	Nutrient management	Maize	Irrigated	05	49	62		37900	53350		(T1)Imbalance use of fertilizer (T2) 75% RDF of NPK (120:60:30kg/ha) + vermi-compost(20q/ha)+ PSB 5 g per kg of seed
kanker	2018	kharif	Low yield of black gram due to heavy infestation of weeds	WEED MANAGEMENT IN BLAKGRAM	Assessment	Weed management in black gram	blackgram	Blackgram fallow	05	4.6	6.5	7.2	13400	22120	26220	(T1) Weeding is not common, some farmers doing hand weeding) (T_2) Application of Pre emergence herbicide pendimethelin @750-1000 g a.i./ha at 0-3DAS (T3) Application of Post emergence herbicide imazethapyre @ 75-100 g a.i./ha at 18-25 DAS
Kanker	2018	Kharif	Low yield due to broadcasting method of sowing	Assessment of inclined plate planter for sowing of black gram	Assessment	Farm implement	Inclined plate planter	Rainfed	05	0.30	0.40		12800	19900		(T1) Broadcasting method of sowing (T2) Line sowing by Inclined plate planter
Kanker	2018-19	Kharif	Low yield due to imbalance use of PGR	Assessment of Foliar application of Ethrel PGR at 2 & 4 True leaf stages in Bitter	Assessment	Nutrient management	Bitter gourd	Irrigated	5	125	170		250000	340000		Foliar application of Ethrel PGR @ 250 ppm at 2 & 4 leaves stages in bittergourd
Kanker	2018-19		Low production of indigenous breed in backyard poultry rearing	Assessment between Kadaknath and Native poultry birds (Reapit)	Assessment	Breed assessment	Poultry	-	04	1.0	1.2		147	447		(T1)Rearing of indigenous breed in backyard (T2) Rearing of Kadaknath breed in backyard
Kanker	2018-19		High mortality of poultry birds due to diseases	Assessment of IDM module against poultry diseases (Reapit)	Refinement	Disease management	Poultry	-	04	0.986	1.3	1.1	313	455	407	(T1) No disease management (T2) Timely vaccination of Ranikhet , IDB & Fowl pox (T3)Anti-stress medicine & deworming

Kanker	2018-19		Mortality of goat due to infectious diseases, slow growth rate of animals.	Assessment of integrated disease management in Goat	Refinement	Disease management	Goat	-	6	9.982	11.32	13.12	1554	2074	2774	(T1) No vaccination & deworming management (T2) Albedanzole@ 10mg/kg body wt. once before vaccination (T3) Vaccination against Goat pox & PPR

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_1)	RP (T_2)	RP (T_3)	FP (T1)	RP (T2)	RP (T3)	FP (T1)	RP (T2)	RP (T3)	FP (T1)	RP(T2)	RP (T3)	FP (T1)	RP (T2)	RP (T3)
Kanker	Assessment of N- Nutrient saving by application of Urea briquettes in transplanted Rice	No. of effective tillers (sqm), Yield (q/ha)	256 38.0	331 42.30	335 43.50	24305	26530	27200	64600	71910	73950	40295	45380	46750	2.66	2.71	2.72
Kanker	Assessment of components for yield maximization of Chickpea.	Yield (q/ha), No. of pods per plant	6.5 62	11.5 90		18000	21000		32500	57500		14500	36500		1.81	2.74	
Kanker	Assessment of Integrated nutrient management in Maize	Cob length per plant (cm), Yield (q/ha)	12.5 49	16 62		25800	27250		63700	80600		37900	53350		2.47	2.96	
Kanker	WEED MANAGEMENT IN BLAKGRAM	Weed biomass (sqm), Yield (q/ha)	15 4.6	8 6.5	6 7.2	14200	16880	16980	27600	39000	43200	13400	22120	26220	1.94	2.31	2.54
Kanker	WEED MANAGEMENT IN Horsegram	Weed biomass (sqm), Yield (q/ha)	18 3.9	10 4.5		12200	13800		19500	22500		7300	8700		1.60	1.63	
Kanker	Assessment of comparative performance of different relay crops under Rice based cropping system	Fieldpea Yield (q/ha)	5.3	6.4		6000	6240		21200	25600		15200	19360		3.53	4.10	
Kanker		Lathyrus Yield (q/ha)	4.2	5.7		8700	9410		16800	22800		8100	13390		1.93	2.42	
Kanker		Linseed Yield (q/ha)	5.2	6.5		9450	9650		23400	29250		13950	19600		2.48	3.03	
Kanker	Assessment of chemical pesticide against insect-pest and fungus on kusumi lac	Yield (q/plants), Infestation of insect per m row length	0.21 4.34	0.3 0.3		1400	1434		4200	6000		2800	4566		3.00	4.18	

Kanker	Assessment of Trichoderma in the nursery of semialata sapling against damping off disease	Disease incidence	35%	7%		16000	17000		20800	29760		4800	12760		1.30	1.75	
Kanker	Assessment of inclined plate planter for sowing of black gram	Field Capacity ha/hr, Yield (q/ha),	0.3 5.2	0.4 6.8		13200	14100		26000	34000		12800	19900		1.97	2.41	
Kanker	Assessment of cultivation of Summer Colocasia in place of rice.	Yield (q/ha.), Rice equilant yield,	44.5	195 86.6		29500	62500		80100	156000		50600	93500	0	2.72	2.50	
Kanker	Assessment of Foliar application of Ethrel PGR at 2 & 4 True leaf stages in Bitter	Yield (q/ha)	125	170		105000	110000		250000	340000		145000	230000		2.38	3.09	
Kanker	Assessment between Kadaknath and Native poultry birds (Reapit)	Body wt. (kg) , Mortality (%)	1.0 9	1.2 2		153	153		300	600		147	447		1.96	3.92	
Kanker	Assessment of IDM module against poultry diseases (Reapit)	Body wt. (kg), Morbidity (%), Mortality (%)	0.986 15% 12.5	1.3 0% 0%	1.1 7.5% 5%	180	195	193	493	650	600	313	455	407	2.74	3.33	3.11
Kanker	Assessment of integrated disease management in Goat	Body wt. (kg) Morbidity (%) Mortality (%)	9.982 3.4 3.4	11.32 3.4 1.67	13.12 0 0	2938	3020	3130	4492	5094	5904	1554	2074	2774	1.53	1.69	1.89

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

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

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

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

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

2.5 Feedback from KVK to Research System

Name of KVK	Feedback

3. Achievements of Frontline Demonstrations (FLD)

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

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

KVK Name	Crop/ Enterprise	Thematic Area	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
Kanker	Linseed	ICM	Improved variety RLC 92	Demonstration, group meeting, training & field day	3	110	80
Kanker	Blackgram	ICM	Improved variety TU 94-2 & RDF (N:P:K: 20:50:20 kg/ha.)	Demonstration, group meeting & training	2	50	25
Kanker	Chickpea	ICM	Improved variety JG 130	Demonstration, group meeting, training & field day	7	130	250
Kanker	Rice	Varietal evaluation	Improved variety Rajeshwari	Demonstration, group meeting, training & field day	6	100	340
Kanker	Rice	Improved implement	Sowing by seed cum fertilizer drill	Demonstration, group meeting & training	35	2103	3010
Kanker	Maize	Improved implement	Performance of maize Thresher	Demonstration, group meeting & training	18	150	-
Kanker	Animal Husbandry	Breed improvement	Improved breed of Poultry Kadaknath	Demonstration, group meeting & training	50	100	-
Kanker	Animal Husbandry	Breed improvement	10 local breed doe with 1 Jamunapari male for crossing	Demonstration, group meeting & training	3	30	-
Kanker	Rice	FMP	Sowing by paddy drum seeder	Demonstration, group meeting & training	3	40	30

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_1)	RP (T_2)		SC	ST	Others	General	Total
Kanker	2018-19	Kharif	**Improved variety**	Introduction of Elephant foot yam in badi cultivation	Foot yam		1	445	610	37%		10			10
Kanker	2018-19	Kharif	Crop diversification	Crop diversification through kharif onion (maize v/s Kharif onion)	Onion		1	35	120	243%		10			10
Kanker	2018-19	Rabi	Nutrient management	Introduction of soil test based Nutrient Management in Maize (Yield Target 60 q/ha)	maize		4	48	62.5	30%		10			10
Kanker	2018-19	Kharif	**Nutrient management**	Demonstration of micronutrients in transplanted Rice	Rice		4	41.64	46.39	11%		10			10
Kanker	2018-19	Kharif	**Improved variety**	Introduction of improved variety of Finger millets	Finger Millet	**Indira Ragi 1**	4	11	17	55%		10			10
Kanker	2018-19	Rabi	Feed management	Demonstration of fodder crop Berseem	Berseed		10	350	415	19%		10			10

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_1)	RP (T_2)		SC	ST	Others	General	Total
Kanker	2018-19	-	Housing Management	Demonstration of Breed improvement with Sirohi Goat	Goat	Sirohi	10	11.12	17.42	57%		10			10
Kanker	2018-19	-		Demonstration of growth rate of Native birds of poultry in semi-intensive housing			10	0.984	1.5	52%		10			10
Kanker	2018-19	-	**Fish production**	Demonstration on Fish Cum Duck Culture	Fish cum duck		10	16.29	28.4	74%		10			10
Kanker	2018-19	Kharif	**Farm mechanization**	Introduction of paddy drum seeder for line sowing in puddled field	Paddy Drum Seeder		4	39.3	46.2	18%		10			10
Kanker	2018-19	Kharif	Farm Mechanization	Line sowing of Rice by multicrop planter with Post-Emergence Application of Herbicide	Multicrop Planter		4	38.9	47.3	22%		10			10
Kanker	2018-19	Kharif	**Income generation**	Demonstration of Lac Cultivation in Semialata	Lac in Semialata		2	28.2	95	237%		10			10

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_1)	RP (T_2)		SC	ST	Others	General	Total
Kanker	2018-19	Kharif	**Improved variety**	Demonstration of Resistance Variety for management of Yellow mosaic disease of Black gram	Black gram		4	1.4	5.6	300%		10			10
Kanker	2018-19	2018-19	**Income generation**	Introduction of 1.0 ha IFS Model for Small & Marginal Farmers	IFS		1	33700	81900	143%		10			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_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
kanker	Introduction of Elephant foot yam in badi cultivation	Foot yam	Yield (q ha)	445	610	260000	298000	667500	915000	407500.00	617000.00	2.57	3.07
Kanker	Crop diversification through kharif onion (maize v/s Kharif onion)	Onion	Yield (q ha)	35	120	24400	82000	35000	168000	10600.00	86000.00	1.43	2.05
Kanker	Introduction of soil test based Nutrient Management in Maize (Yield Target 60 q/ha)	maize	Yield (q/ha)	48	62.5	24950	26800	62400	81250	37450.00	54450.00	2.50	3.03
Kanker	Demonstration of micronutrients in transplanted Rice	Rice	Yield (q ha)	41.64	46.39	28142	29306	70788	78863	42646.00	49557.00	2.52	2.69
Kanker	Introduction of improved variety of Finger millets	Finger Millet	Yield (q ha)	11	17	16800	19500	33000	51000	16200.00	31500.00	1.96	2.62
Kanker	Demonstration of fodder crop Berseem	Berseed	Yield (q/ha)	350	415	25500	28450	70000	83000	44500.00	54550.00	2.75	2.92

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_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
Kanker	Demonstration of Breed improvement with Sirohi Goat	Goat	Body Wt. of 6 Month age (kg)	11.12	17.42	1662	2252	4782	7490	3120.00	5238.00	2.88	3.33
Kanker	Demonstration of growth rate of Native birds of poultry in semi-intensive housing		Body wt gain(kg), Mortality (%)	0.984	1.5	163	233	344	525	181.00	292.00	2.11	2.25
Kanker	Demonstration on Fish Cum Duck Culture	Fish cum duck	Fish production (q), Duck eggs	16.29	28.4	76240	101230	163225	312684	86985.00	211454.00	2.14	3.09
Kanker	Introduction of paddy drum seeder for line sowing in puddled field	Paddy Drum Seeder	yield q/ha, Field capacity q/ha	39.3	46.2	24000	22200	66810	78540	42810.00	56340.00	2.78	3.54
Kanker	Line sowing of Rice by multicrop planter with Post-Emergence Application of Herbicide	Multicrop Planter	yield q/ha, Field capacity q/ha	38.9	47.3	28400	25300	66130	80410	37730.00	55110.00	2.33	3.18

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_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
Kanker	Demonstration of Lac Cultivation in Semialata	Lac in Semialata	Yield (q/ha)	28.2	95	22500	110000	50760	171000	28260.00	61000.00	2.26	1.55
Kanker	Demonstration of Resistance Variety for management of Yellow mosaic disease of Black gram	Black gram	yield q/ha, Disease severity%)	1.4	5.6	8300	16880	4800	36000	-3500.00	19120.00	0.58	2.13
Kanker	Introduction of 1.0 ha IFS Model for Small & Marginal Farmers	IFS	Net Return Rs/ha	33700	81900	56500	84000	90200	165900	33700.00	81900.00	1.60	1.98

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

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

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

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

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

KVK name	OFT Title	Performance Indicator / Parameter				Nutrient Intake (Unit)								Anthropometric measurements					
		Name of vegetable/Fruit/Product		Per capita Consumption gm/ day		Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		Increase in Weight (Kg)		Increase in Height (cm)		Increase in BMI (%)	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
Kanker	Introduction of Nutritional garden in schools	Vegetable growing is not in common	Seasonal vegetables and fruits	145	300	-	5973.21	-	488	-	464		11.32	1.772	2.512	3.5	5.00	10.32	14.68

3.6 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Kanker	Black gram	Field days	1	84	-
		Farmers Training	2	45	-
		Media coverage	1	-	-
		Training for extension functionaries	1	31	-
Kanker	Rice	Field days	1	62	-
		Farmers Training	3	74	-
		Media coverage	1	-	-
		Training for extension functionaries	1	51	-
Kanker	Maize	Field days	1	72	-
		Farmers Training	1	30	-
		Media coverage	-	-	-
		Training for extension functionaries	1	24	-
Kanker	Tomato	Field days	-	-	-
		Farmers Training	1	21	-
		Media coverage	-	-	-
		Training for extension functionaries	1	30	-
Kanker	Chickpea	Field days	1	82	-
		Farmers Training	2	61	-
		Media coverage	3	-	-
		Training for extension functionaries	1	25	-
Kanker	Linseed	Field days	1	80	-
		Farmers Training	2	47	-

		Media coverage	1	-	-
		Training for extension functionaries	1	36	-
Kanker	Wheat	Field days	-	-	-
		Farmers Training	1	24	-
		Media coverage	1	-	-
		Training for extension functionaries	1	26	-
Kanker	Horse gram	Field days	1	76	-
		Farmers Training	1	24	-
		Media coverage	-	-	-
		Training for extension functionaries	-	-	-
Kanker	Cowpea	Field days	-	-	-
		Farmers Training	1	32	-
		Media coverage	1	-	-
		Training for extension functionaries	2	28	-
Kanker	Brinjal	Field days	-	-	-
		Farmers Training	1	35	-
		Media coverage	1	-	-
		Training for extension functionaries	2	31	-
Kanker	Cattle	Field days	-	-	-
		Farmers Training	1	32	-
		Media coverage	1	-	-
		Training for extension functionaries	1	31	-
Kanker	Goat	Field days	-	-	-
		Farmers Training	1	33	-
		Media coverage	1	-	-
		Training for extension functionaries	1	31	-

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

4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested

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
Kanker	RY	Group discussion	28.06.2018, Mohpur	28
Kanker	RY	Group discussion	15.07.2018, Bewarti	56
Kanker	FW	Group discussion	21.08.2018, Puswada	43
Kanker	RY	Group discussion	27.08.2018, Pirhapal	65
Kanker	RY	Group discussion	25.09.2018, Turakhar	46
Kanker	RY	Group discussion	21.12.2018, Gotulmunda	59
Kanker	RY	Group discussion	22.12.2018, Badatola	48

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

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	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
Kanker	FW	OFC	CRP	Production technology of Chickpea	2	2	6				24	19	4	
Kanker	FW	OFC	CRP	Production technology of wheat	1	1	4		1		20	2		
Kanker	FW	OFC	AEG	Care & maintenance of Agriculture Implements	2	2	8			2	26	18	5	
Kanker	FW	OFC	SFM	Importance of bio fertilizer in different crops	1	1	4				25	12		
Kanker	FW	ONC	LPM	Fodder production for animal nutrition	1	1	4				25	12		
Kanker	RY	ONC	PLP	Plant protection in Rabi crop	1	1	4				25	12		
Kanker	FW	OFC	CRP	Production technology of linseed	1	1	4				25	12		
Kanker	FW	OFC	CRP	Production technology of field pea	1	1	4		1		20	2		
Kanker	FW	OFC	CRP	Weed management of wheat	1	1	4		1		20	2		
Kanker	FW	OFC	CRP	Production technology	1	1	4		1		20	2		

				of lentil										
Kanker	FW	OFC	SFM	Nutrient management of vegetable crop	1	1	4		1		20	2		
Kanker	FW	OFC	PLP	Plant protection in kharif	1	1	4		1		20	2		
Kanker	FW	OFC	CRP	Production technology of green gram	1	1	3	4			21			
Kanker	FW	OFC	AEG	Care & maintenance of ploughing machine	1	1	4				25	12		
Kanker	FW	OFC	AEG	Line sowing of paddy by seed drill	1	1	4				25	12		
Kanker	FW	OFC	LPM	Disease management of animal	1	1	4				25	12		
Kanker	FW	OFC	LPM	Rearing and management of Goat	1	1	1				22	12		
Kanker	FW	OFC	PLP	Method of seed treatment	1	1	9	2			15			
Kanker	FW	OFC	PLP	Method of seed purification and seed treatment	1	1	13				14			
Kanker	FW	OFC	PLP	Mushroom production technology	1	1	4				25	12		
Kanker	FW	OFC	CRP	Weed management of black gram	1	1	4				25	12		
Kanker	FW	OFC	PLP	Pest and disease management in Kharif crop	1	1	4		1		20	2		
Kanker	FW	ONC	HOF	Management of mother	1	1	2			1	25		1	

				orchard during summer										
Kanker	RY	ONC	CRP	Kharif crop production technology	1	1	2			1	25		1	
Kanker	FW	ONC	AEG	Woman empower and drudgery reduction	1	1	5				20			
Kanker	FW	ONC	SFM	Method for collection of soil sample	1	1	1				15			
Kanker	FW	ONC	HOV	Land preparation and selection of variety of vegetable crop	1	1	2			1	15		1	
Kanker	FW	ONC	LPM	Care and management of live stock before mansoon	1	1	2			1	25		1	
Kanker	FW	ONC	LPM	Nutrition available in summer	1	1	2			1	15		1	
Kanker	RY	ONC	CRP	Production technology of kharif crop	1	1	4		1		20	2		
Kanker	FW	ONC	SFM	Production technology of vermi compost	1	1	4		1		15	2		
Kanker	FW	ONC	PLP	Method and importance of seed treatment	1	1	4		1		15	2		
Kanker	FW	ONC	HOV	Improved production technology of cucurbits crop	1	1	4		1		15	2		
Kanker	FW	ONC	HOV	Improved cultivation of	1	1	6	1	1		23	2		

				elephant foot yam										
Kanker	FW	ONC	SFM	Nutrient management in kharif crop	1	1	4		1		15	2		
Kanker	FW	ONC	CRP	Selection of variety in kharif season	1	1	4		1		15	2		
Kanker	FW	ONC	CRP	Weed management in rice	1	1	4		1		20	2		
Kanker	FW	ONC	SFM	Production technology of vermi compost	2	2	7		1		15	18		
Kanker	FW	OFC	SFM	Nutrient management in rice	1	1					21			
Kanker	FW	OFC	CRP	Weed control in line sowing rice	1	1	4		1		20	2		
Kanker	FW	OFC	CRP	Weed control in sesame	1	1	2		1		15	17		
Kanker	FW	ONC	CRP	Production technology of wheat	1	1	2				19			
Kanker	FW	ONC	LPM	Live stock and its shed management	1	1	4				25	12		
Kanker	FW	ONC	HOV	Processing and packaging of turmeric and other horticultural products	1	1	2		1		15	9		2
Kanker	FW	ONC	CRP	Production technology of chick pea	1	1	4				25	12		
Kanker	FW	ONC	PLP	Plant protection in vegetable	1	1	4				25	12		
Kanker	FW	ONC	CRP	Water	1	1	4				25	12		

				management in pulse crop										
Kanker	FW	ONC	LPM	Vaccination and management of poultry birds	1	1	4				25	12		
Kanker	FW	ONC	AEM	Importance of agriculture implements in summer ploughing	1	1	4				25	12		
Kanker	FW	ONC	CRP	Storage techniques of grain and seeds	1	1	4				25	12		
Kanker	FW	ONC	CRP	Weed management and water management in linseed crops	1	1	1				30	22		

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
Kanker	Cultivation of oil seed & pulses	Oilseed & pulses	RY	18			2		17	1		
Kanker	Cultivation of oil seed & pulses	Oilseed & pulses	RY	18	3				18		2	
Kanker	Micro irrigation	Micro irrigation	RY	35					17	3		
Kanker	Mushroom Cultivation	Mushroom	RY	35						16		4
Kanker	Small poultry farmers	Mushroom	RY	35					15	1		4

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	

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)	Dura-tion (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		
Kanker	STRY Training on Duck rearing		-	RY	7 Day	1			1		1		18			42000.00
Kanker	STRY Training on Poutlry rearing		-	RY	7 Day	1	1	-	1	-	2	0	16			42000.00

Table 5.5 Training Programmes for Panchayati raj 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)	Dura-tion (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	
Kanker	Production technology of Vermicompost	29	Nil	75	Nil	20	Nil	10000	29 farmers adopted the technology
Kanker	Mushroom production technology	19	Nil	55	Nil	50 kg	Nil	13000	15 farmers adopted the technology
Kanker	Tractor operator	34	NIl	70	-	-	-	15000	-
Kanker	Cultivation of oil seed & pulses	40	20	80	5.6	9.8	16800	29400	40 farmers adopted the technology

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				
				M	F	M	F	M	F	Purpose	Topics	Crop Stages
Kanker	Advisory Services	52	52		-	-	-	-	-			
Kanker	Agri mobile clinic	-	-	-	-	-	-	-	-			
Kanker	Animal Health Camp	02	01	6	2	87	20	6	-			
Kanker	Awareness programme	04	04	5	3	62	8	6	2			
Kanker	Celebration of important days	05	05	26	12	179	48	11	8			
Kanker	Diagnostic visits	171	171	8	4	749	95	4	3			
Kanker	Exhibition	09	09	Mass	Mass	Mass	Mass	Mass	Mass			
Kanker	Exposure visits	07	07	11	3	240	35	8	2			
Kanker	Extension Literature	08	08	-	-	-	-	-	-			
Kanker	Ex-trainees Sammelan	2	2	11	1	51	12	6	3			
Kanker	Farm advisory Services	-	-	-	-	-	-	-	-			
Kanker	Farm Science Club conveners meet	-	-	-	-	-	-	-	-			
Kanker	Farmers Seminar/Workshop	3	3	18	2	238	23	18	6			
Kanker	Farmers visit to KVK	30	30	159	79	4950	319	132	45			
Kanker	Field Day	9	9	72	24	317	29	15	7			
Kanker	Film Show	11	11	57	19	378	82	26	9			
Kanker	Group meetings	7	7	34	26	148	41	15	6			
Kanker	Interface											
Kanker	Kharif Sammelan	1	1	59	22	598	97	18	6			
Kanker	Kisan Ghosthi											
Kanker	Kisan Mela	1	1	212	24	1103	360	45	25			
Kanker	Krishi Gyan Doot meet(Farmer Friend)	2	2	18		102						
Kanker	Krishi Mahotsav											
Kanker	Lectures delivered as resource persons	16	8	18	7	178	37	12	3			
Kanker	Mahila Mandals conveners meetings	4	4		5		74		3			
Kanker	Method Demonstrations	17	17	53	3	275	68	12	6			
Kanker	Newspaper coverage	48	48	Mass	Mass	Mass	Mass	Mass	Mass			
Kanker	Popular articles	06	06	Mass	Mass	Mass	Mass	Mass	Mass			
Kanker	Pradhanmantri phasal bema yojana											
Kanker	Radio talks											
Kanker	Scientific visit to farmers field	112	112	35	18	210	48	14	6			
Kanker	Self Help Group conveners meetings	3	3	2		8	32	3	1			
Kanker	Soil health Camp	2	2	6	2	58	13	2	1			
Kanker	Soil test campaigns	-	-	-	-	-	-	-	-			
Kanker	Summer deep plougning											
Kanker	Technology Week	1	1	1	0	38	4	1	1			
Kanker	TV talks	5	5	Mass	Mass	Mass	Mass	Mass	Mass			
Kanker	Workshop	-	-	-	-	-	-	-	-			
Kanker	Others	-	-	-	-	-	-	-	-			

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
Kanker	April 2018	Quarterly (April to June)	500	500
Kanker	July 2018	Quarterly (July to September)	500	500
Kanker	October 2018	Quarterly (October to December)	500	500
Kanker	January 2019	Quarterly (January to March)	500	500

7.2 Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Kanker	Research article	Impacts of Integrated Farming system on Socio-economics and Livelihood Sustainability of Small and Marginal Farmers in Chhattisgarh	Anil Kumar Netam, Birbal Sahu and Chainu ram netam	
Kanker	Research article	Doubling Farmers Income Following Integrated Farming Approach	M.P. Thakur, Birbal Sahu, N. Sahu and Deepti Jha	
Kanker	Folder	Kuposhan Ka Nidan Poshan Vatika	Suresh markam, Dr. Praful Rahangdale, Atul Dange and Devchand Salam	100
Kanker	Folder	Samanvit Kheti Se Badali Adiwasi Krishko Ki Takdir	Dr. Praful rahangdale, Atul Dange, Suresh markam, Devchand Salam	100
Kanker	Folder	Kadaknath Kukkut Palan se Aay evam Rojgar me Vridhi	Dr. Praful rahangdale, Atul Dange, Suresh markam, Devchand Salam	100

7.3 Details of Electronic Media Produced

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

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.)
	Seed production at KVK Farm						
Kanker	Cereals	Rice	Indira Arobic	140.30			
Kanker	Cereals	Rice	IGKV-R1	82.00			
Kanker	Cereals	Rice	IGKV-R1	185.6			
Kanker	Oilseed	Wheat	MP 1203	9.5			
Kanker	Oilseed	Linseed	RLC-92	10.35			
Kanker	Pulse	Green Gram	IPM 2-3	crop stand			

8.2 Planting Material production

KVK Name	Major group/class	Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Kanker	Fruit	Mango, Dashari	Mango, Dashari	480	19200		
Kanker	Fruit	Mango, Amrapali	Mango, Amrapali	250	10000		
Kanker	Fruit	Mango, Langra	Mango, Langra	500	20000		
Kanker	Fruit	Mango, Malika	Mango, Malika	58	2320		
Kanker	Flower	Guava, L 49	Guava, L 49	800	32000		
Kanker	Flower	Marigold, Pusa Narangi	Marigold, Pusa Narangi	5020	1255		
Kanker	Flower	Zinia, Zahar mix	Zinia, Zahar mix	5500	1375		
Kanker	Flower	Rajnigandha, Kalkatta Single	Rajnigandha, Kalkatta Single	2010	502.5		
Kanker	Vegetable	Brinjal, Pusa Syamla	Brinjal, Pusa Syamla	6080	3040		
Kanker	Vegetable	Tomato, Arka Rakshak	Tomato, Arka Rakshak	4500	2250		
Kanker	Vegetable	Cauliflower, Early kunwari	Cauliflower, Early kunwari	8910	4455		
Kanker	Vegetable	Cabage, NS-160	Cabage, NS-160	9520	4760		
Kanker	Vegetable	Tomato, Arka Rakshak	Tomato, Arka Rakshak	4238	2119		
Kanker	Vegetable	Knol Khol	Knol Khol	600	300		
Kanker	Vegetable	Onion, Nasik Red	Onion, Nasik Red	62600	31300		
Kanker	Vegetable	Water melon, Augusta	Water melon, Augusta	2600	13000		
Kanker	Vegetable	Brinjal, VNR-212	Brinjal, VNR-212	6200	3100		
Kanker	Flower	Marigold, Narayanpuri local	Marigold, Narayanpuri local	12000	3000		
Kanker	Flower	Zinia, Zahar box	Zinia, Zahar box	3200	800		
Kanker	Flower	Duranta, Local	Duranta, Local	2200	15400		
Kanker	Flower	Eklipha, Lcoal	Eklipha, Lcoal	580	145		
Kanker	Spices	Turmeric	Narendra Haldi 1	4.5q	18000		

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

KVK Name	Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Qty (In Kg)	Qty (In No)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Kanker	Bio Agents	Verms	35	-			-
	Bio Agents						
	Bio Fertilizer						
	Bio Fertilizer						

8.4 Livestock and fisheries production

KVK Name	Name of the animal / bird / aquatics	Breed	Type of Produce	Qty. (kg/qt./litre)	Value (Rs.)	No. of Beneficiaries
Kanker	Poultry birds	Kadaknath	Chicks	60307 no	3015350	1067
Kanker	Poultry birds	Kadaknath	Meat	104 kg	56530	96
Kanker	Duck	Khakhi campbell, White pekin	Duck	40 no	-	-
Kanker	Cuck	Khakhi campbell, White pekin	Chicks	112	-	10
Kanker	Cow	Sahiwal, Gir	Milk	5037 liter	211873	25
Kanker	Cow	Sahiwal	Calf	1 (m)	-	-
Kanker	Cow	Gir	Calf	10 (6 M + 4 F)	-	-
Kanker	Goat	Sirohi	Kids	21	-	-
Kanker	Goat	Sirohi	Buck	5	40000	5
Kanker	Goat	Sirohi	Doe	20	120000	5

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)
Kanker	Digital Mini lab	2015-16		478	1100	20		

9.2 Details of water samples analyzed so far :

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

10. Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

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

11. Utilization of Farmers Hostel facilities – Under Construction

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)
Kanker	-	-	-	-	-	-	-	-

12. Utilization of Staff Quarters facilities – Not available

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
Kanker	-	-	-	-	-

13. **Details of SAC Meeting**

KVK Name	Date of SAC	No. of SAC	Major recommendations

	meeting	members attended	
Kanker	**08.03.2019**	**30**	

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

KVK Name	No. of messages sent	No. of beneficiary		Number of villages covered	Sponsoring agency (NIC, Farmers Portal, etc.)	Major recommendations
		Farmers	Ext. Pers.			
Kanker	8	25513		1065	Farmers portal	Crop management, Plant Protection, Live stock management Nutrient Management, FMP

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
Kanker	MDF	State	891000	Lac processing unit, dona pattal machine , Poultry feed and nutritional garden	Kanker district	
Kanker	MDF	State	1726000	Small processing unit, Tractor , Micro irrigation, Tube well		
Kanker	MGNREGA	Central	940000	Pond digging	KVK, Farm	

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Kanker	31761245093	15,14,288.00	2253384.66	2253384.66

17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Kanker	Shri Prakas Nishad	Farmer	Krishak Samridhi	
Kanker	Shri Somesh Sahu	Farmer	Krishak Samridhi	
Kanker	Srhi Dakeshwar Bhaskar	Farmer	Krishak Samridhi	
Kanker	Shri Dhaniram Padmakar	Farmer	Krishak Samridhi	
Kanker	Shri Pila ram	Farmer	Krishak Samridhi	
Kanker	Shri Asharam	Farmer	Krishak Samridhi	

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.)
1	Kanker	Yes	DES

b) Details about Technology Park

Name of KVK	Name of Component of Park	Detail Information (If established)
	Crop Cafeteria	Kharif & Rabi crops of the district
	Technology Desk	Vermi Compost Production, Mushroom Span Production, Trichoderma Production
	Visitors Gallery	-
	Technology Exhibition	Different Diseases, Insects & Seed Collection of Different Crops
	Technology Gate-Valve	-

c). Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria
1	Varieties of Cereals, Pulses & Oilseed	03

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

S. N.	Name	Name of Farm	Name of the Innovation	Address of the farmer with Mobile No.

	of KVK	Innovator		
1	Kanker	Shri Pravin Dehari	Mobile operated tubewell	Village - Nawagaon Bhavgir, Block Kanker
2	Kanker	Shri Purshottam Mandavi	Lac production on Semialata	Village – Tirkadank , Block Charama District Kanker Mo. 7587026328
3	Kanker	Shri Asharam Netam	IFS Model	Village – Bewarti, Blcok Kanker, District Kanker Mo. 9406106911
4	Kanker	Smt Lekesh bai	IFS Model	Village - Thanabodi, Block Kanker, District Kanker Mo. 9098150009
5	Kanker	Shri Lakkhu ram	IFS Model & Community Nursery	Village – Mohpur, Block Kanker District Kanker Mo. 8120664142
6	Kanker	Shri Dilip Sonkar	Growing of vegetable with Drip system	Village - Largaon-Markatola, Block - Narharpur, District – Kanker Mo. No. – 9009941620
7	Kanker	Shri Vijay Mandavi	Growing of vegetable with Drip system	Village – Ratesara, Block - Charama, District – Kanker Mo. No. – 9425593844
8	Kanker	Shri Krishna Nishad	Growing of vegetable with Drip system, Poultry	Village – Babudabena, Block - Kanker, District – Kanker Mo. No. – 09754389122
9	Kanker	Shri Lallu Ram Kureti	IFS Model	Village – Aturgaon, Block – Kanker, District – Kanker Mo. No. – 9479007412

20. KVK interaction with progressive farmers

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers to be participated
1	15-05-2018	24
2	23-06-2018	23
3	18-07-2018	31
4	18-08-2018	32
5	02-09-2018	23
6	18-10-2018	24

21. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
Kanker	03	07	18	125

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, Awareness programmes etc.

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

Sr. No.	Name of crop under Technology demonstration	Area under the programme	No. of Extension Activities	Remarks / Lessons learnt
1	Blackgram	8.00 ha	3	
2	Chickpea	12.5 ha	3	
3	Field pea	8.00 ha	3	

23. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
1.	Kanker, Jagdalpur, Narayanpur	Training, Demonstration, Field visit, Miner millet processing	

24. **Important visitors to KVK**

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Kanker	Prof. Satpal singh	19.04.2018			Member of State Planing Commission Chhattisgarh	
Kanker	Dr. Nitin M Nagarker,	16.06.2018			Director AIMS, Raipur,	
Kanker	Prof. R.R.Hanchinal	07.06.2018			Member, Chhattisgarh state farmers welfare & Former chairperson of PPV&FRA GOI	
Kanker	Shri Ajit Kumar	30.06.2018			Dy. Secretary NITI AYOG, GOI	
Kanker	Dr. Terraj Nayak	30.06.2018	Sceitist N.I. Hydrology			
Kanker	Dr. S.K. Patil	28.03.2019		Vice Chancellor, IGKV		

25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1	Kanker	June 2013	Thirty Nine time	8938 (2379 - Indians) (3518 – Foreigners)

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			
Kanker	-	-	-	-	-	-	-

27. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals	Remarks

1	Kanker	NIL	NIL	

28. Status of Citizen Charter

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

29. Attended HRD Programmes organized by ZPD

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
	Total		0	

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

30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks

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

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

Kanker	Smt. Hemkanti Banjare	SMS, Agronomy	1	
Kanker	Smt. Anjali Ghritlahare	SMS, Soil Science	1	

Name of KVK	Total Number of staff Attended HRD Programmes by KVK staff (nos)	Total Number of Programmes attended (Nos)
Kanker	**2**	**2**

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

33. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

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

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Kanker	Gosthies	1	55	Crop
Kanker	Lectures organised	2	53	Crop
Kanker	Exhibition	1	55	-
Kanker	Film show	3	205	crop and live stock
Kanker	Fair			
Kanker	Farm Visit	3	110	
Kanker	Diagnostic Practicals			
Kanker	Distribution of Literature (No.)			
Kanker	Distribution of Seed (q)			
Kanker	Distribution of Planting materials (No.)			
Kanker	Bio Product distribution (Kg)			
Kanker	Bio Fertilizers (q)			
Kanker	Distribution of fingerlings			
Kanker	Distribution of Livestock specimen (No.)			
Kanker	Total number of farmers visited the technology week			
Kanker	Animal health camp			
Kanker	Awareness programme			
Kanker	Cashless Transaction Week			
Kanker	Celebration of important days (Parthenium eradication week, Swachhata Abhiyan and Soil Health Day,International Women Day,National Integrity Day,World environment day,World forestry day,World Water Day)	5	284	
Kanker	Demonstration			
Kanker	Exposure visit			
Kanker	Extension activity			
Kanker	Ex-trainees Meet			
Kanker	Farmer scientist interaction			
Kanker	Farmers Training			
Kanker	Field Day			
Kanker	Field visit			
Kanker	Gajarghans Unmulan Pakhwada			
Kanker	Group Meeting			
Kanker	Hindi diwas pakhwada			
Kanker	Jai Kisan Jai Vigyan Sangoshthi			
Kanker	Narmada sewa Yatra			
Kanker	News Paper/Mass Media			
Kanker	Plant health camp			
Kanker	Plant Protection Week			
Kanker	Scientists visits in farmers field			
Kanker	Seed treatment campaign			
Kanker	Self Help Group convener meet			
Kanker	Soil health Camp			
Kanker	Swachha Bharat Abhiyan			

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Kanker	Technology Week			
Kanker	Van Mahotsava			
Kanker	Others (Pl. Specify)			

34. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries
Kanker	Rice	8.00	20

Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries
Kanker	Chickpea	25.00	55
Kanker	Linseed	40.00	100

Farmers-scientists interaction on livestock management

Name of KVK	Livestock components	Number of interactions	No. of participants
Kanker	Poultry bird, Goat, Cow	4	112

Animal health camps organized

Name of KVK	Number of camps	No.of animals	No.of farmers
Kanker	**1**	**252**	**110**

Seed distribution in drought hit states

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

Seedlings and Saplings distributed

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

Bio-control Agents

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

Bio-Fertilizer

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

Verms Produced

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

Large scale adoption of resource conservation technologies

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

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

35. Activities performed in Satellite Village on Doubling Farmer's Income

Information about Satellite Village

Name of KVK	Block	Village
Kanker	**Kanker**	**Mohpur**

1. Activities for Natural Resource Management:-

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted	Remarks
Pond	3	3	1	3	

2. Activities for Crop Diversification:-

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted	Remarks
Chickpea crop in place of summer rice	5	5	2	5	Chickpea crop in place of summer rice
Black gram in place of upland rice	5	5	2	5	Black gram in place of upland rice
Vegetable cultivation	5	5	0.6	5	Vegetable cultivation

3. Activities for Crop Production

Name of intervention undertaken	Area (ha)	No of farmers covered / benefitted	Remarks
STCR	2	5	
Seed production of chickpea	5.2	3	
Improved variety of linseed	2	5	
Improved variety of Bottle gourd	0.02	3	
Improved variety of Pumpkin	0.02	3	
Sweet corn	0.2	1	
Improved variety of Tomato	0.1	1	
Improved variety of Onion	0.15	2	
Improved variety of Brinjal	0.01	1	
Line sowing of rice	2	5	

4. Activities for Livestock and Fisheries

Name of intervention undertaken	Numbers under taken	No of units	Area covered (ha)	No of farmers covered / benefitted	Remarks
Kadaknath poultry rearing	4	4		4	
Fish cum duck	3	3	1	3	
Improved Dairy	2	2		2	

5. Activities for Livelihood Security to small and marginal land holders:-

Name of intervention undertaken	Numbers under taken	No of units	Area covered (ha)	No of farmers covered / benefitted	Remarks
Lac production on Semialata	5	5	2	5	

6. Activities for Institutional Interventions

Name of intervention undertaken	No of units	Area covered (ha)	No of farmers covered / benefitted	Remarks

7. Activities for Capacity Building

Thematic area	No. of Courses	No. of beneficiaries		
		Male	Female	Total
Training on Poultry rearing	1	18	6	24
Training on Mushroom production	1	0	20	20

8. Extension Activities in Satellite Village

Thematic area	No. of activities	No. of beneficiaries		
		Male	Female	Total
Krishak Sangoshthi	1	45	10	55
Group meeting	1	26	-	26
Exposure visit of farmers	1	10	-	10
Field Day	1	27	6	33

36. Activities performed in Nutri-Smart Village

Information about Nutri-Smart Village

Name of KVK	Block	Village
Kanker	**Kanker**	**Kumhankhar**

1. Innovative practices to promote nutrition-sensitive agriculture and food security :

Areas	Type of intervention taken (OFT/FLD/Training/ Extension Activity)	Name of intervention taken	Numbers under taken	Quantity (unit)	% change in Nutritional Status	No of beneficiaries
Diversification and intensification of production	FLD	Demonstration of technology for round the year availability of vegetable	10	1.0 ha		10
Nutrition sensitive livestock and fisheries	FLD	Community nutritional garden	02	0.5 ha		02
Biodiversity for food & nutrition including forest produces/ Minor Millets	-	-	-	-	-	-
Bio-fortification	-	-	-	-		-
Other (Pl. Specify)	FLD	Backyard rearing of Kadaknath Poultry	03	03 no.		03

2. Value Chain And Village Trade related Issue:

Areas	Type of intervention taken	Name of intervention taken	Numbers under taken	Quantity	% change in Nutritional Status	No of beneficiaries
Demand-supply dynamics and market intelligence by the women.	-	-	-	-	-	-
Processing and product development of NTFPs by women.	-	-	-	-	-	-
Food Fortification	-	-	-	-		-
Technology adaptation mechanisms for nutritional security.	Training and extension activity	Production and processing	2	2		40
Economic empowerment through sustainable income generation among women.	Training and demonstration	Organic production of scented rice and minor millet & processing	1	1		20
Other (Pl. Specify)						

3. Improving Maternal and Child Nutrition

Areas	Type of intervention taken (OFT/FLD/Training/ Extension Activity)	Name of intervention taken	Numbers under taken	% change in Nutritional Status	No of beneficiaries
Strategies and programs for improved maternal nutrition-experiences	-	-	-	-	-
Community based strategies to enhance and sustain breast feeding practices and promote early childhood development.	-	-	-	-	-
Approaches to improve complementary foods and feeding practices.	-	-	-	-	-
Comprehensive approach to address acute malnutrition in children.	-	-	-	-	-
Improving nutrition among tribal population with community focus on first 1000 days.	-	-	-	-	-

4. Nutrition Literacy

Areas	Type of intervention taken (OFT/FLD/Training/ Extension Activity)	Name of intervention undertaken	Number of Courses	No of beneficiaries
Nutrition Education and Behaviour	-	-	-	-
Micronutrient Supplementation	-	-	-	-
Adolescent and Maternal Nutrition	Training	Training cum awareness programme was organized on nutrition	1	28
Malnutrition Management Service	-	-	-	-
Other (Pl. Specify)	-	-	-	-

5. Capacity development of women institutions/ SHGs/ FIGs/FPOs

Area	Name of intervention undertaken	Number of Courses	No of beneficiaries
Human Resource management for women	-	-	-
Capacity development through participatory method	Organize skill training on production and processing	1	44
Skill development	Poultry rearing, Mushroom production	1	20
Other (Pl. Specify)	-	-	-

6. Enabling Suitable governance and policy

Areas	Name of intervention taken	Numbers under taken	No of Courses	No of beneficiaries
Role of horticulture and Agriculture Engineering in Nutritional Security	-	-	-	-
Climate Smart agriculture for Nutritional Security	-	-	-	-
Other (Pl. Specify)	-	-	-	-

7. Institutional Interventions in Collaboration (through KVK, Anganwadi of other Department) :-

Name of intervention undertaken	No of collaborative Department	No of beneficiaries	Remark
Awareness cum training programme on nutrition and demonstration	Horticulture, women and child development, Education department	25	

30. Activities for Sansad Adarsh Gram

Information about Sansad Adarsh Gram

Name of KVK	Block	Village
Kanker	**Koylibeda**	**Kapsi**

1. Technologies to be Demonstrated

Name of Technology	Name of Crop/Enterprise	Area (ha.)	Yield	% change in Yield	No. of farmers benefitted
Demonstration of IFS model	Crop + Fishery + Poultry + Goatary	2.0	-	-	3
Backyard poultry rearing	Poultry bird (Kadaknath)	3 units of 100 no chicks	-	-	3

2. Extension Activities

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total
Field day	30	05	4	39
Group meeting	38	16	2	56
Animal health camp	68	2	4	74

3. Training Programme

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total
Skill training to youth on goatary, poultry, lac cultivation	10	8	-	18
Training to farmers on improved production technology of crops	105	42	5	152

35. Proposal of NICRA

1. **Technologies to be Demonstrated**

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

2**. Proposed Extension Activities in NICRA Village**

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

3. **Proposed Training Activities in NICRA Village**

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

4**. Proposed Activities for Fodder Bank**

Established (Years)	Capacity	Current Status

5. **Proposed Activities for Seed Bank**

Established (Years)	Capacity	Current Status

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

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

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

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

37. Case study / Success Story to be developed –

Two best only in the following format

Name of the KVK , TITLE, Introduction, KVK intervention, Output, Outcome, Impact, 2-3 Photographs with caption in .jpeg format.

Sr. no.	Name of KVK	No. of success stories	No. of case studies
1	Kanker	5	1

Success story (1)

Name - **Shri Asharam Netam**
Mobile No. - 9406106911
Education - B.A.
Village - Bewarti, Block – Kanker, District – Uttar Bastar Kanker
Awards - (1) Farmer Fellowship Award by IGKV 2016
(2) IARI-Innovative Farmer Award – 2018 by ICAR

Theme – IFS Model
Change in Net Income
Before intervention – Rs. 1.50 lac/ annum
After intervention - Rs. 8.56 lac/annum

Shri Asha ram is a farmer of tribal dominant district Kanker and he also comes under biggest tribal community "Gond". He was working hard in his field for his family survival. But due to lack of resources and technical knowledge he was not getting the desirable output even with his sufficient land holding for his existence. Later on after the start of IFS project, he came in contact of Krishi Vigyan Kendra (KVK) Kanker in the year 2013-14. KVK scientist provide training and technical guidance to shri Asha Ram and financial assistance for digging of fish pond and also help in financing loan from Bank. Now he practices integrated farming system in his farm by growing Rice, Vegetable, Fish cum Duck, Dairy and Poultry. In Rabi he started cultivation of maize crop, linseed, chickpea. He also planted fruit plants in bunds of pond.

By adopting this IFS model and rabi cropping he is now one of the successful farmer of the locality and is very well established and known farmer of the village. He is now a source of inspiration for all the other farmers of the locality who are learning the things for improving their livelihood. Before intervention he was earning Rs. 1.5 lac per annum from his 2.00 ha land and after intervention his income was increased more than five times (Rs. 8.56 lac per annum). **After three years he purchased tractor, Loading auto and motor cycle from his income**, he also provide employment to three other labours throughout the year.

Activity wise income, cost-benefit ratio. gross and net income

I. Field crop (per ha)

Years	Crop	Area (ha.)	Yield (q)	Grass Income (Rs)	Net Income (Rs)	B:C ratio

Years	Crop	Area (ha.)	Yield (q)	Grass Income (Rs)	Net Income (Rs)	B:C ratio
2016-17	Paddy (Kharif)	1.00	51.00	68850	35450	2.06
	Chick pea (Rabi)	0.50	3.00	13500	6000	1.80
	Maize (Rabi)	0.50	31.00	37200	24200	2.86
				119550	**65650**	-

II. Horticulture crops (per ha)

Years	Crop	Area (ha.)	Yield (q)	Grass Income (Rs)	Net Income (Rs)	B:C ratio
2016-17	Vegetable	0.10	6.50	7800	5800	3.90
				7800	**5800**	-

III. Enterprises like Livestock, Fisheries etc.

Years	Crop	Area (ha.)	Yield (q)	Grass Income (Rs)	Net Income (Rs)	B:C ratio
2016-17	Fishery	0.60	4.25	106250	82250	4.43
	Duck	0.00	16 no	3200	2350	3.76
	Dairy	25 cow & 5 buffalo	250 ltr/day	1125000	700000	2.65
				1234450	**784600**	-

Photographs




Success story (2)

Name - **Smt. Lekesh Bai**
Education - Primary
Village - Thanabodi
Mobile No. - 9098150009
Block - Narharpur
District - Uttar Bastar Kanker
Award - Farmer Fellowship Award 2016 by IGKV
Innovative farmers Award by ICAR Research Complex for Eastern Region, Patna 2018

Theme – IFS Model
Change in Net Income
2010-11 – Rs. 1,11,800/ annum
2016-17 - Rs. 7,46,650/annum

She is practiced Integrated Farming System in her farm by cultivation of crop, fish cum duck, improved dairy, goat and poultry rearing

Innovative technique -

- Vegetable production in drip with polythene mulching
- Improved dairy and making dairy product i.e. Ghee, Paneer
- Practicing Improved goat farming
- Poultry farming
- Fish cum duck

She is now a source of inspiration for all the women and other farmers of the locality who are learning the things for improving their livelihood. Approximately 850 no of farmers and farm women visited her farm.





Case study (1)

Promotion of Kadaknath poultry breed through backyard and commercial rearing for livelihood security of tribal farmers

Kadaknath poultry is indigenous disease resistant breed and having much medicinal values such as low fat percentage, high protein content, low cholesterol and wide adoptability, farmers preferred this breed for rearing in their backyard. With an objective of providing quality breed of poultry bird Kadaknath, a hatchery unit (500 egg capacity) was established during 2013-14 and during 2015-16 another 5000 egg capacity hatchery was established at KVK Kanker. There are **28,550 chicks** have produced and provided to the farmers for backyard rearing during 2015-16. There are **291 units** were established by farmers in the district with the convergence of MGNREGA for construction of shed. Three Kdaknath hatchery units were established by the farmers of other district in the guidance of KVK Kanker. Sale of eggs laid by the birds and sale of male birds for meat purpose is the main source of income. These birds lay 100 to 120 eggs in a year while desi birds lay 60 to 70 only. Growth rate of these birds is also quite higher than desi birds.

Kadaknath production and its horizontal spread

- 65,000 Kadaknath chicks produced and provided to farmers.
- Sprayed over 12 districts of Chhattisgarh state and Three other state (J&K,




Kadaknath hatchery unit at KVK Kanker

Horizontal spread in State -




Kadaknath rearing by farmers in different districts

Horizontal spread in District
No. of units – 269
convergence with MGNREGA – for construction of shed



Kadaknath unit of farmer Siyaram Marrapi Village Kulgaon



Shed constructed through MGNREGA

Kadaknath birds rearing by farmers in different villages

Impact :- Economics of rearing 100 birds in one year

Cost (Rs)	Gross Return(Rs)	Net return	B:C ratio
50,000-60,000	1,40,000- 1,60,000	90,000- 95,000	2.72

Employment generated, 460 mandays per family in one year

Kadaknath News in media


36garh Chronicle

adaknath' gets a new lease of life in state


जम्मू-कश्मीर के साथ ही उड़ीसा महाराष्ट्र में भी कड़कनाथ की मांग


अध्यक्ष ने केवी की गतिविधियों की ली जानकारी

कड़कनाथ मुर्गे के सालाना 70 हजार चूजे देश में बेहतर मार्केटिंग करेगा कृषि विवि

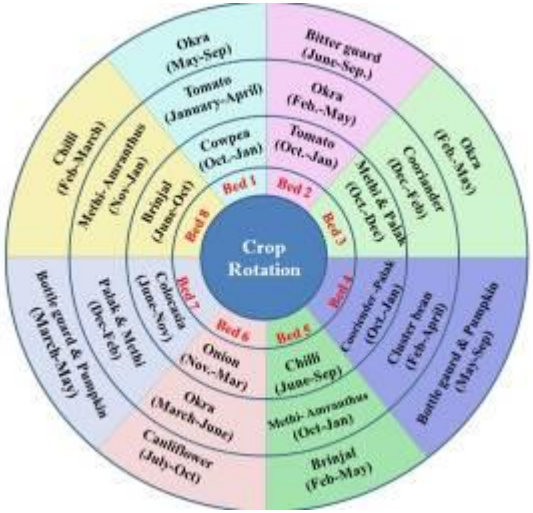
दंतेवाड़ा के आदिवासी उद्यमिता सम्मेलन में विवि आज करेगा एमओयू


तीन साल में ही बढ़ा कड़कनाथ मुर्गों का पालन, अब दूसरे राज्यों में भी निर्यात

आदिवासी उद्यमिता सम्मेलन में कड़कनाथ की मार्केटिंग के लिए आज होगा अनुबंध

Case study (2) - **Nutritional garden for nutritional security**

(A) Description of disseminated technology - KVK scientist designed ideal Nutritional garden which content vegetables and fruits like banana, papaya and drumstick etc for fulfill the daily requirement of family. Kitchen garden is a ancient method but not a commercial method. On an average to meet out the daily vegetable requirement of 5 to 6 members family, 300 sqm space is sufficient for nutritional garden.



First it was tested in KVK farm, after that replicated in 15 farmers field. The district Collector appreciated this work and provided fund for further replications. In this connection 40 residential schools (Ashram) of Antagarh block was selected for replication during 2015-16. The warden of Ashram school stated growing of vegetables and fruits in the back yard of Ashram, they are also maintaining daily record of production. In the year 2016 for dissemination of these technology in the whole Kanker district intensive training programme was organized for the principals and hostel warden of Kanker district, Due to which this technology implemented in whole district.

After success of this technology in the Uttar Bastar Kanker district, the Chief Secretary Govt. Of Chhattisgarh ordered to all the Collectors of Chhattisgarh State for implementing these nutritional garden technology in the schools.

(c) Average production of vegetables and their nutritive value – On an average 845 kg vegetables was produced per school in ten months in the demonstrated schools.

Name of School	Average Production per school in six months
P. S. Podgaon M.S. Himoda P.S. Ghotulbeda P.S. Tadoki P.S. Godbinapal M.S. Godbinapal P.S. Masbaras P.S. Boys Angatarh P.S. Girls Antagarh P.S. Shyam Nagar Antagarh	Bottle gourd - 170 kg Pumpkin – 178 kg Cowpea – 44 kg Brinjal – 95 kg Okra – 34 kg Bitter gourd – 35 kg Tomato – 60 kg Cluster beans – 9 kg Lablab – 22 kg Leafy vegetables – 31 kg Colocassia – 23 kg Cabbage – 47 kg Knol-khol – 23 kg Sponge gourd – 27 kg Ridge gourd – 32 kg Chilli –15 kg

Nutrients	Value
Carbohydrate (kg)	57.49
Protein (kg)	16.20
Fat (kg)	3.420
Calorie (Joule)	327103
Vit. A (IU)	8489802
Vit. B1 (g)	1.57
Vit. B2 (g)	0.626
Vit C (kg)	0.350
Calcium (kg)	0.368
Iron (g)	16.10
Phos phorus (kg)	0.366
Zinc (g)	4.419
Potassium (kg)	2.63
Magnesium (kg)	0.226

Differences in cost of cultivation in terms of reduction in labour & inputs for the farmers in operational area –

Scientific vegetable cultivation in schools were started with a view that 70 to 80 percent schools having source of water (tube well or hand pump) and manpower (one peon/hostel warden). Only seed and pesticide charges was required for implementing these technology.

Other benefits and impact from disseminated technology -

Due to replication of Nutritional garden in schools of Antagarh block, fresh and organic vegetable are available for students as well as saving an amount of Rs. 12000/- per school in six months. Besides seasonal vegetables perennial vegetables like Jackfruit, Drum steak, and fruits Papaya, Banana, Guava were also planted which provide regular fruits and vegetable.

Number of farmers implemented disseminated technology –

At present 70 schools and 250 farmers of Kanker district implemented these technology and as per instruction of The Chief Secretary Govt. of Chhattisgarh the technology will be implementing in whole Chhattisgarh state.

Directive for Nutritional Garden in Ashram Schools at Kanker

■ Staff Reporter
RAIPUR, July 30

AN INITIATIVE to grow nutritional garden in a few of the 'Ashram' schools in the State's Kanker district has proved successful. A directive has been given to the concerned authorities of all such schools in that district to grow the garden in their respective institutions, informed Krishi Vigyan Kendra, Kanker, which comes under Indira Gandhi Krishi Vishwavidyalaya (IGKV).

Krishi Vigyan Kendra (KVK), Kanker, exhibited ideal nutritional garden at its level, which impressed the District Collector who then directed for replicating the garden in ten Ashram schools in the district. A fund of Rs 1 lakh was also disbursed for the purpose. Ashram schools in tribal area are residential schools where the students stay and they are provided food also, informed the KVK Programme Coordinator Dr Birbal Sahu. The school children get nutrition and it needs mention that Antagarh block is located in interior part of district where the vegetable and fruit yields are comparatively less. The school children of this area also get nutrition, informed KVK's. Every nutritional garden, also referred as kitchen garden, was spread over 300 square metre area.

Not only the residential school children got nutrition, but a considerable amount as savings was also recorded. The savings recorded per school was Rs 12,000 in six months. Looking to the success, a directive has been given by the district collector to the concerned authorities of all the Ashram schools in the district for the garden in their respective institutions, informed Dr Sahu.


Ashram School children displaying the nutritional garden yields.

Nutritional Gardens are coined as 'Poshan Vatika'

NOT only the Ashram schools of the district, but it has also been directed to grow the garden in a number of other schools in the district. These schools have been identified and the gardens will be coined as 'Poshan Vatika', said the District Collector Shammi Abidi, when contacted by this newspaper.

दैनिक भास्कर | रायपुर

20 स्कूलों में किचन गार्डन, वहीं उगाई सब्जियों का मिड डे मील में इस्तेमाल

कांकेर के दस स्कूलों में मिले अच्छे नतीजे की वजह से प्रयोग का विस्तार

तैयार होती रहेंगी सब्जियां

बाड़ी कल्चर से प्रभावित

Beating malnutrition with organic farming

विवेक ढांड
मुख्य सचिव
Vivek Dhand
Chief Secretary

छत्तीसगढ़ शासन
Government of Chhattisgarh
अर्धशासकीय पत्र क्र. 1514/CS/2016
नया रायपुर, दिनांक 20 OCT 2016

विषय:- पोषण वाटिका की स्थापना के संबंध में।

24 OCT 2016

उपरोक्त विषयान्तर्गत डॉ. एस.के.पाटील, कुलपति, इंदिरा गांधी कृषि विश्वविद्यालय, रायपुर से प्राप्त पत्र संलग्न है, जिसमें लेख है कि कृषि विज्ञान केन्द्र, कांकेर के वैज्ञानिकों द्वारा पोषण वाटिका का मूर्त रूप कृषि विज्ञान केन्द्र, कांकेर के प्रांगण पर 300 वर्गमीटर भूमि पर तैयार किया गया। जिसमें लौकी, कद्दू, ककड़ी, भिण्डी, पालक, गोभी आदि सब्जियों के साथ-साथ कंदवर्गीय सब्जियों व बेलेदार सब्जियों को क्रम में लगाया जाता है ताकि सब्जियों का उत्पादन वर्षभर लगातार चलता रहे।

2/ कलेक्टर, कांकेर ने इस मॉडल से प्रभावित होकर पूरे जिले में इसे विस्तारित करने के लिए आश्रम स्कूलों के अधीक्षकों एवं आंगनबाड़ी केन्द्रों की संचालिकाओं को निर्देशित किया है तथा पोषण वाटिका की स्थापना हेतु प्रशिक्षण का आयोजन कृषि विज्ञान केन्द्र, कांकेर के माध्यम से किया जा रहा है।

मैं चाहूंगा कि तदनुसार आप भी अपने जिले में इसे अपनाने हेतु कृषि विज्ञान केन्द्र के माध्यम से आवश्यक कार्यवाही करें।

संलग्न – उपरोक्तानुसार.

सस्नेह,
भवदीय
(विवेक ढांड)

समस्त कलेक्टर्स
छत्तीसगढ़

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27/10/16

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