ANNUAL PROGRESS REPORT

April 2018 to March 2019

KRISHI VIGYAN KENDRA, BASTAR

INDIRA GANDHI KRISHI VISHWAVIDYALAYA

JAGDALPUR, BASTAR - 494 005 (C.G.)

Contents

Instructions for Filling the Format

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

REPORTING PERIOD – April 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	05	81	
	On Going OFT	00	00	
	Technologies assessed (Completed OFT)	05	81	
	Technologies refined	00	00	
	On farm trials conducted	05	81	
2	**Frontline demonstrations**			
	Proposed Frontline demonstrations	17	497	
	On Going Frontline demonstrations	00	00	
	FLDs conducted on crops	13	427	
	Area under crops (ha.)	184.20	437	
	FLD on farm implement and tools	00	00	
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	00	00	
	FLD on Fisheries - Finger lings	02	10	
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)	02	60	
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	00	00	
3	**Training programmes**	**No. of Course**	**Duration (days)**	**Participants**
	Farmers	133	133	8627
	Farm women	13	13	864
	Rural youth	12	12	656
	Extension personnel/ In service	04	04	208
	Vocational trainings	03	55	70
	Sponsored Training	03	11	256
	Total	168	228	10681
		No. of programmes	**Participants**	
4	**Extension Programmes**	682	30983	
5	**Production of technology inputs etc**	**Qty**	**Beneficiaries (nos.)**	
	Seed (qt.)	304.64	991	
	Planting material produced (nos.)	312000	217	
6	**Livestock**	**Qty**	**Beneficiaries (nos.)**	
	Livestock strains (Nos)	00	00	
	Milk Yield - Cow, Buffelo etc. (in liter)	5583	15	
	Fish (Kg.)	600	124	
	Fingerlings (nos.)	325000	91	
	Poultry-Eggs (nos.)	00	00	
	Ducks (nos.)	00	00	
	Chicks etc. (nos.)	00	00	
7	**Bio Products**	**Qty**	**Beneficiaries (nos.)**	
	Bio Agents -Earth worm (Kg.)	15	07	
	Trichoderma (kg.)	00	00	

	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)	05	05
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)	17	Mass
	KVK News letter	04	2000
	SAC Meetings conducted	01	35
	Soil sample tested	517	517
	Water sample tested	00	00
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)	01	44
	KVK-KMA (Message and beneficiaries)	46	25132
	Convergence programmes	09	312
	Sponsored programmes	01	30
	KVK Progressive Farmers interaction	03	19
	No. of Technology Week Celebrations	08	267
	Attended HRD activities organized by ZPD	04	04
	Attended HRD activities organized by DES	04	04
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc.)	02	02
9	Current status of Revolving Funds (Amt. in Rs.)	470500.00	
10		**No. of blocks**	**No. of villages**
	Outreach of KVK in the District	08	197
11		**ICAR**	**SAU** / **Others**
	No. of important visitors to KVK (nos.)	09	31 / 71
12		**Working (Yes/No)**	**No. of Update**
	Status of KVK Website	Yes	98
13		**Application received**	**Application disposed**
	Status of RTI (nos.)	03	03
14		**Query received**	**Query dissolved**
	Citizen Charter (nos.)	00	00
15		**Working (Yes/No)**	**No. of programme viewed**
	E-connectivity	No	0
16		**Filled**	**Vacant**
	Staff Position	12	04
17	Workshop/ Seminar/ Conference attended by staff of KVK (nos)	10	
18	Publication received from ICAR /other organization (nos.)	14	
19		**Particulars**	`
``	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)	01	Mass
20	Activities performed in Satellite Village on DFI	**Nos. of Activities**	**Participants/ beneficiaries**
		00	00
21	Activities performed in Nutri Smart Village	**Nos. of Activities**	**Participants/ beneficiaries**
		00	00
22	Activities performed in Sansad Adarsh Gram	**Nos. of Activities**	**Participants/ beneficiaries**
		00	00

GENERAL INFORMATION

1.1. Staff Position (as on 31.03.2019)

Summary of Staff position in KVKs on March, 2019

Name of KVK	Sanctioned Posts	PC (1)		SMS (6)		PA (3)		Admn. (6)		Total	
		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
Bastar	16	1	1	6	6	3	1	6	4	16	12

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specialization	Pay scale	Present pay	Date of joining	Per./Temp.	Category
Bastar	Programme Coordinator	Dr. Santosh Kumar Nag	Agricultural Economics	Ph.D.	Agricultural Economics	37400-67000 + 9000 GP	37400 + 9000 GP	26.03.2019	Temporary	ST
Bastar	Subject Matter Specialist1	Er. Rahul Sahu	Agricultural Engineering	M. Tech.	Agricultural Processing & Food Engineering	15600-39100 + 5400 GP	19680 + 5400 GP	06.09.2012	Temporary	OBC
Bastar	Subject Matter Specialist2	Sh. Toshan Kumar Thakur	Fisheries	M.F.Sc.	Fisheries	15600-39100 + 5400 GP	19680 + 5400 GP	11.09.2012	Temporary	ST
Bastar	Subject Matter Specialist3	Sh. Lekh Ram Verma	Agricultural Extension	M.Sc.	Agricultural Extension	15600-39100 + 5400 GP	18240 + 5400 GP	25.09.2014	Temporary	OBC
Bastar	Subject Matter Specialist4	Smt. Swati Thakur Mirjha	Agronomy	M.Sc.	Agronomy	15600-39100 + 5400 GP	18240 + 5400 GP	01.10.2014	Temporary	ST
Bastar	Subject Matter Specialist5	Sh. Sushil Kumar Kashyap	Horticulture	M.Sc.	Horticulture	15600-39100 + 5400 GP	15600 + 5400 GP	06.10.2018	Temporary	ST

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specialization	Pay scale	Present pay	Date of joining	Per./Temp.	Category
Bastar	Subject Matter Specialist6	Sh. Dharmpal Kerketta	Entomology	M.Sc.	Entomology	15600-39100 + 5400 GP	15600 + 5400 GP	10.10.2018	Temporary	ST
Bastar	Programme Assistant	Vacant								
Bastar	Farm Manager	Sh. Dushyant	Agronomy	M.Sc.	Agronomy	9300-34800 + 4200 GP	11940 + 4200 GP	17.09.2012	Temporary	GEN
Bastar	Computer Programmer	Ku. Preeti Mishra	Information Technology	B.E.	Information Technology	18900	18900	02.02.2018	Ad hoc	GEN
Bastar	Accountant / superintendent	Vacant								
Bastar	Stenographer	Vacant								
Bastar	Driver	Sh. S. K. Uike	Driver	ITI	ITI	5200-20200 + 1900 GP	8330 + 1900 GP	29.04.2008	Temporary	SC
Bastar	Driver	Vacant								
Bastar	Supporting staff	Sh. Rohanu	Messenger	Primary	Primary	4750-7440 + 1300 GP	7400 + 1300 GP	02.02.2007	Temporary	SC
Bastar	Supporting staff	Sh. Puranchand	Messenger	Middle School	Middle School	4750-7440 + 1300 GP	6890 + 1300 GP	16.09.2008	Temporary	OBC

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
KVK, Bastar	Bastar Plateau	07	317	519557	54.94	69.88	98711	2 ha

Geographical area	403003 ha	Male population	254664(49.02%)
Forest area	238802 ha (52.10%)	Female population	264893 (50.98%)
Cultivated area	219626 ha (47.90%)	Literacy	Male – 65.70% Female – 44.49 %
Double cropped area	6423 ha (2.92%)	ST/SC	69.88 %
Average rainfall	1294.50 mm	Others	30.12 %
Cropping intensity	117 %	Total farm families	98711
Fertilizer consumption (N:P:K)	25.42:18.28:6.85 kg/ha	Marginal Farmers	43.94 %
Fertilizer consumption ratio (N:P:K)	3.7: 2.7: 1	Small Farmers	25.38 %
Total blocks	07	Big Farmers	30.68 %
Total Gram Panchayats	317	Irrigated area	14.0 %
Major crops	Rice, maize, Black gram, Niger, Horse gram, minor millets, Chickpea etc.		
Major Tubers	Elephant Foot Yam, Colocasia, Ginger, Turmeric, etc.		
Major Spices	Chilli, Garlic, Coriander, Fenugreek etc.		
Major vegetables	Brinjal, Tomato, Okra, Cauliflower, Cabbage, Onion, Cucurbits, leafy vegetables		

Krishi Vigyan Kendra Bastar is also working in the District Kondagaon (divide from Bastar on 24 January 2011). The general information of district Kondagaon are:-

Agro-climatic zone	Bastar Plateau	Geographical area	368700 ha
No. of blocks	05	Net sown area	164990 ha
No. of Villages	498	Area under forest	18080 ha
No. of Forest Villages	50	Fallow/Waste land	10850 ha
Total Villages	548	No. of farmers / Farm families	63228

No. of Small Farmers	15158	Irrigated area (000 ha)	29.29
No. of Marginal Farmers	15506	Kharif sown area (000 ha)	149.30
No. of Big Farmers	32564	Rabi sown area (000 ha)	28.43
No. of Farm Families (SC)	3380 (05.4 %)	Cropping intensity (%)	104
No. of Farm Families (ST)	43760 (69.2 %)	Average rainfall (mm)	1200
No. of Farm Families (Other)	16088 (25.4 %)		
Major crops	Rice, maize, Blackgram, Niger, Horsegram, minor millets, Chickpea etc.		
Major Tubers	Eliphant Foot Yam, Colocasia, Ginger, Turmeric, etc.		
Major Spices	Chilli, Coriander, Fenugreek etc.		
Major vegetables	Brinjal, Tomato, Okra, Cauliflower, Cabbage, Onion, Cucurbits, leafy vegetables		

Tribal community depends upon NTFP and agriculture for its livelihood. The agriculture is subsistence with almost no external inputs as resulted yields are very low. Therefore, they are becoming more and more dependent on forest for livelihood which in then resulting in damage to forest. Dependency on forests has also resulted in suffering malnutrition anemia and stunned growth reflecting on human resources and human index value.

Bastar plateau sub-humid agro-climatic zone, agriculture is still largely traditional with low crop productivity. Critical inputs viz. improved seed, fertilizer, organic manure, plant protection measures, etc. are also not easily available to the farmers. Farmers do not use proper crop rotation techniques and are also unable to utilize available resources with them fully.

The productivity of arable land is very low and uncertain due to rain fed condition and degraded soils. The causes of low productivity are:-

- Traditional agriculture practices,
- Lack of irrigation facilities,
- Heavy Soil & Water erosion,
- Undulated topography
- Open Animal grazing
- Non-adoption of improve technology of cultivation,
- Lack of knowledge among the farmers about the improved crop production techniques.
- Lack of adequate farm machinery, finances for farmers, quality seeds and fertilizers, other facilities such as storage and marketing etc.

The bare hummocky topography and high precipitation has degraded land resources and large area has already converted into wasteland or a holistic integrated farming system approach has help in decreasing the disparity in society as well as fighting the social problems of social evils likes disturbing activities in the region.

Cropping Pattern: According to farming situation different crop pattern is adopted by farmers in Bastar region are:

- Homestead garden (Badi): Maize-Rapeseed Mustard/Tomato/Brinjal/Chilli or maize-fallow
- Upper uplands (Marhan):Millets, Niger, Horsegram, Tubers
- Lower uplands (Tikra): Rice, Minor Millets, Black gram, Niger, Horse gram, Maize
- Midlands (Mal): Medium duration Rice-fallow
- Lowlands (Gabhar): Long duration Rice-fallow or gram/vegetables/linseed

Opportunities

- Well established KVK has vast working area.
- Awareness and little interventions in way of doing farming in tribal system can bring big change.
- Organizing of tribal community can strengthen the tribal economy.
- Training to staff will give maximum result in the field.
- As implementing agency for convergence programmes helps in development of tribals.
- Reach in national resources can be utilized for optimum use to increase production.
- Area reach in forest produce and group approach will help tribal for the upliftment.
- Soil and water conservation can be boom to the area.

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)
Bastar	Bade Chakwa	2009-10	Bastar	42	688	105
Bastar	Kodenar	2010-11	Bastanar	52	1022	417

Bastar	Badekilepal	2010-11	Bastanar	57	1687	619
Bastar	Palanar	2010-11	Bastanar	67	308	97
Bastar	Irpa	2010-11	Bastanar	63	417	157
Bastar	Dhurguda	2011-12	Jagdalpur	16	1200	362
Bastar	Tarapur	2012-13	Bakawand	25	1700	465
Bastar	Balikonta	2014-15	Jagdalpur	15	1300	475
Bastar	Bakawand	2014-15	Bakawand	25	1214	365
Bastar	Jhartarai	2015-16	Bastar	36	950	158
Bastar	Madhota	2015-16	Bastar	39	650	248
Bastar	Badlawand	2016-17	Bakawand	41	845	298
Bastar	Badedharoor	2016-17	Lohandiguda	35	656	183
Bastar	Turangur	2016-17	Bastanar	65	1800	445
Bastar	Ghatkawali	2018-19	Bastar	15	429	337
Bastar	Parpa	2018-19	Jagdalpur	16	516	345
Bastar	Nadisagar	2018-19	Bastar	35	621	489

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

KVK Name	THRUST AREA
Bastar	Enhancement of productivity of major crops like Rice, Maize, Niger, Ragi, Urd, Linseed through varietal diversification, INM, IIPM and scientific management practices. Enhancement of fish production in the district by composite fish farming and scientific management practice.
Bastar	Enhancement of productivity of horticultural crops by introduction of HYV and other scientific management practices
Bastar	Mechanization through introduction of improved implements in agriculture.
Bastar	Empowerment of women through various women-based income generating activities
Bastar	Income generation through value addition of crops & forest produce
Bastar	Improve living standards of rural tribal people through Sanitation, health hygiene and balanced diet
Bastar	Promotion rural youth for self-employment and development of IFS model.
Bastar	Promote fruit and vegetable area and cropping intensity in the district

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
Bastar	Low yield due to local variety	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Block – Lohandiguda
Bastar	Imbalance use of fertilizer	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Block – Darbha
Bastar	Timely unavailability quality seeds	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Block – Bakawand
Bastar	Heavy infestation of insect pest and weeds	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Block – Bastar
Bastar	Lack of irrigation facilities	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Block – Tokapal
Bastar	Open Grazing during Rabi season	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Block – Jagdalpur
Bastar	Lack of technical knowledge	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Block – Jagdalpur, Bastar, Bastanar
Bastar	Lack of processing, value addition and preservation of vegetables and fruits	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Block – Bastanar
Bastar	Heavy Soil and water erosion	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Block – Bastanar

2. On Farm Testing (OFT)

Note-

- **Thematic area should be spelled correct and select only on the given list.**
- **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 eggplant/bhata/baigan etc.**
- **Don't press enter key to navigate among column use arrow or tab key**
- **don't add space before or after statement within the table cell**
- **Kindly mention realistic estimated yield of your crop under trail.**
- **If crop has been not yet harvested, mark it * on that**

Thematic Areas for OFT/FLD

Thematic Areas for OFT/FLD	Parameters Name and unit
OFT/FLD on Crops	
Agro Forestry	Yield q/ha
Crop Diversification	insect population/plant
Integrated Crop Management	No of pods/plant
Integrated Farming system	Disease incidence %
Integrated Disease Management	No of effective tillers/hill
Integrated Nutrient Management	Rhizome wt/Plant(g)
Integrated Weed Management	No of weeds/m2
Varietal Evaluation	Fruit wt(g)
Integrated Pest Management	No of Fruits/plant
Integrated Plant Nutrient Management	Fruit Length(cm)
Feed and Fodder Production	No of nodules/plant
Resource conservation Technology	% Insectitation
Soil Fertility Management	No of Cobs/plant
	No of Larvae/m2
	No of Panicles/m2
	No of Tillers/hills
	No of Bulb weight(g)
	No of Grains/panical
	No. of tubers/plant
	Weight of Curd/head (g/plant)
	No. of Siliquae or Capsule /plant
	Seedling Germination (%)
OFT/FLD on Agriculture Engineering	
Farm Mechanization	Yield (q/ha)
Resource Conservation Technology	Field Capacity (ha/hr)

Post-Harvest Management	Cleaning efficiency %
Storage loss minimization Technology	Cleaning Capacity q/hr
Small Farm Implements	weed population per m2
	tillers/plant
	water inefficiency
	irrigation efficiency
OFT/FLD on Animal Science	
Animal Feed / Fodder Management	**Milk yield (Lit/day/animal)**
Animal Disease Management	**change in body weight(kg)**
Animal Nutrition Management	**Egg Production/bird/year**
Livestock production & management	**% decrease in Worm**
Animal breed evaluation	**Parasite control (%)**
Poultry Production and management	**Body weight at 12 months (kg/goat)**
	Parasite occurrence (%)
	Live weight (kg/bird) at 12th Month
	Growth Rate (90 days)
	Yield q/ha (Fodder)
	Mortality %
	Feed intake
	% Disease infestation
OFT/FLD on Fisheries	
Fingerling Production in Seasonal Ponds	Yield (q/ha)
Composite Fish Farming	Yield (q/ha), ABW (kg)
Fish Nutrition	Survival Rate (%)
Fish-cum-Duck Farming	Disease incidence (%)
Fish Production & Management	
Fish Breeding	
Fish Seed Production	
Spawn to fry production	
Integrated Farming System	

2.1 Details of OFT on Crop

KVK name	Year/Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Name of Technology/Variety used			Thematic Area	Crop Category	Name of Crop	Farming Situations	Target	No. of trials	Results (with parameter)			Net Returns (Rs./ha)		
					T1	T2	T3							FP (T_1)	RP (T_2)	T3	FP (T_1)	RP (T_2)	T3
Bastar	2018-19/Kharif	Low productivity	Assessment of sowing method	Assessment	Farmers Practice	Line sowing at spaci	Transplanting at spaci	Integrated crop Management	Minor Millet	Finger Millet	Upland	7	7	7.21	10.2	15.79	10198.00	15072.00	24494.00

			on Finger millet		(Broadcasting of finger millet)	ng of 25 cm x 10 cm row to row and plant to plant	ng of 25 cm x 10 cm row to row and plant to plant												
Bastar	2018-19/Kharif	Soil depletion and weed infestation in the unutilized wide space between the maize crops resulting in poor yield	Assessment of Maize Legume Intercropping	Assessment	Sole cropping of Maize	Maize + Cowpea intra row cropping (Maize holes alternating with those of cowpea)	Maize + Cowpea inter row cropping (a line of maize alternating with a cowpea line)	Integrated crop Management	Cereal+ Pulse	Maize+ Cowpea	Upland	7	7	30.9	25.41+ 15.7	23.11+ 21.23	26705.00	59472.00	71051.00

Recommendations of OFTs

Recommendations		
Title of OFT	**For Farmers**	**For Deptt. Personnel**
Assessment of sowing method on Finger millet	Transplanting of finger millet gives more yield compared to broadcasting and line sowing method.	
Assessment of Maize Legume Intercropping	Maize cowpea intercropping is best compared to maize cowpea intracropping and sole cropping of maize.	

2.2 Economic Performance

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)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)
Assessment of sowing method on Finger millet	Average no. of effective tillers per plant	2	5.31	9990.00	12898.00	19718.00	20188.00	28560.00	44212.00	10198.00	15072.00	24494.00	2.02	2.21	2.24
Assessment of Maize Legume Intercropping	Grain Yield (q/ha)+ Cowpea (Green Pods) q/ha	30.9	23.11 + 21.23	25825.00	30825.00	31926.00	52530.00	90297.00	102977.00	26705.00	59472.00	71051.00	2.03	2.93	3.2

2.3 Details of OFT on Agriculture Engineering

KVK name	Year/Season	Problem diagnose	Title of OFT	Category of technology (Assessment / Refinement)	Name of Technology used			Thematic Area	Crop/Enterprise Category	Crop/ enterprise	Farming Situations	Target	No. of trials	Results (with parameter)			Net Returns (Rs./ha)		
					T1	T2	T3							FP (T_1)	RP (T_2)	T3	FP (T_1)	RP (T_2)	T3

Recommendations of OFTs

Recommendations		
Title of OFT	For Farmers	For Deptt. Personnel

2.4 Economic Performance

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)	(T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)

2.5 Details of OFT on Animal Science

KVK name	Year/season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Name of Technology used			Thematic Area	Category of Enterprise	Name of Enterprise	Target	No. of trials	Results (with parameter)			Net Returns (Rs./ha)		
					T1	T2	T3						FP (T_1)	RP (T_2)	T3	FP (T_1)	RP (T_2)	T3

Recommendations of OFTs

Recommendations		
Title of OFT	For Farmers	For Deptt. Personnel

2.6 Economic Performance

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)	(T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)

2.7 Details of OFT on Fisheries

KVK Name	Year/ Season	Problem diagnose	Title of OFT	Category of technology (Assessment / Refinement)	Name of Technology used			Thematic Area	Category of Enterprise	Name of Enterprise	Target	No. of trials	Results (with parameter)			Net Returns (Rs./ha)		
					T1	T2	T 3						FP (T_1)	RP (T_2)	T3	FP (T_1)	RP (T_2)	T 3

Bastar	2018-19	High cost of fish feed	Assessment of Low-Cost Farm made Feed in Carp Polyculture	Assessment	Use of high cost feed	Use of low-cost farm made feed		Fish Production	Aquaculture	Fisheries	02	01	21.53 Q/ha	23.13 Q/ha		207170	235820	

Recommendations of OFTs

Recommendations		
Title of OFT	**For Farmers**	**For Deptt. Personnel**
Assessment of Low-Cost Farm made Feed in Carp Polyculture	Use of supplementary farm made fish feed by using Mahua oil cake (30%), with mustard oil cake (30%), rice bran (39%) and mineral mixture (1%) reduce cost of fish feed and increase net profit from fish production as compared to use of supplementary fish feed containing mustard oil cake & rice bran in 1:1 ratio in fish farming	

2.8 Economic Performance

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)	(T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)
Assessment of Low-Cost Farm made Feed in Carp Polyculture	Yield in Quintal	21.53	23.13		94250	88000		301420	323820		207170	235820		3.20	3.68	

2.9 Details of OFT on Agriculture Extension

S. No	KVK Name	Season & Year	Problem identified	Title of OFT	Thematic Area	Name of Technology assessed	Source of Technology (Year)	Farmers Practice (T_1)	Assessed Rec. Practic	Refined practice, if An	Variety	No. of Village	No. of Trials (Replication)

									e (T_2)	y (T_3)			
1.	KVK Bastar	2018-19	Unavailability of farm labour at proper time, poor financial status of the farmers	Assessment of Performance of Custom Hiring Centers in Bastar district	Farm Mechanization	Custom Hiring Centers	IGKV 2015		16			16	
2.	KVK Bastar	2018-19	Low price realizes due to un organised market and selling of ungraded, unprocessed tamarind	Assessment of Tamarind Producers Groups in Primary Processing and Marketing	Agriculture Marketing	Group Approach	IGKV 2015		50			05	

Recommendations of OFTs

Recommendations		
Title of OFT	**For Farmers**	**For Deptt. Personnel**
Assessment of Performance of Custom Hiring Centers in Bastar district	Most of the tamarind producer/collectors sell out tamarind, through un regulated market. There have major four marketing pattern existence i.e. Channels – I (Producer - Consumer) Channels – II (Producer - APMC) Channels – III (Producer - Village trader - Retailer - Consumer) and Channels–IV (Producer- Village trader - Wholesaler - Retailer - Consumer). Channel four commonly followed among the others. Cent percent Tamarind producer follow the primary processing. Market rate is varying accordingly season to season. Farmers getting more prices when followed primary processing includes removal of seed or deseeding.	
Assessment of Tamarind Producers Groups in Primary Processing and Marketing	Most of the CHC are functional working with 7.75 average machinery while at the time of initiation of CHC it was 12.47 it means most of the machinery damage due to un-usefulness. Most of the agricultural implements are damaged or non-functional. CHC working for 915 hrs annually, Average 15 farmers benefitting from the 6 village. *During Kharif* season mostly engaged in ploughing work through Cultivator while in season *Rabi* threshers are used to threshing of both paddy & Rabi harvested crop like wheat. CHC Facilitate to the farmers complex/costly/ implements like thresher, rotavator. CHC not very productive in term of Net Income for owner.	

2.10 Performance of OFT

KVK Name	Name of parameter			Data on the parameter			Result of assessment
	1	2	3	1	2	3	

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

	Year	Season									Recommendations

KVK Name			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	

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

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

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

KVK name	OFT Title	Performance Indicator / Parameter											
		Production per unit		Cost of input		Incremental income		Yield(Kg/ha)		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		

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

KVK name	OFT Title	Performance Indicator / Parameter													
		Composition of product		Input used		outcome (Kg)		Cost of input		Incremental income		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		

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

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

2.10 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
Bastar	Fish	Fish Production	Demonstration on use of multi mineral vitamin with traditional fish feed for enhancing fish production	Use of Agrimin a mixture of mineral & vitamins @ 0.1% along with traditional fish feed increase individual body weight of fish by lowering FCR which ultimate enhance fish production	12	15	4.5
Bastar	Fish fingerling	Fish Seed Production	Demonstration on Fingerling production in seasonal village ponds.	Nursery management in fish seed production of IMC by phased manuring with supplementary feed increase survival and growth of spawn and fry which increase profit	05	05	2.0

Note-

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

3.2 Details of FLDs on Crop implemented during 2018-19

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/Technology/Enterprises	Crop-Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
Bastar	2018-19	Kharif	Integrated Crop Management	Performance of line sowing direct seeded rice with reduced seed rate and use of Pre + Post emergence herbicides.	Paddy	Demonstration of Dry seeded rice technology	2	31.0	37.3	20.3	0	5	0	0	5
Bastar	2018-19	Kharif	Integrated Crop Management	Demonstration of MTU 1010	Paddy	MTU 1010	4	32.0	39.60	23.75	0	10	0	0	10
Bastar	2018-19	Kharif	Integrated Crop Management	Demonstration of Pusa Sugandhit (PS-5)	Paddy	Pusa Sugandhit (PS-5)	4	33.33	40.0	20.012	0	10	0	0	10
Bastar	2018-19	Kharif	Integrated Crop Management	Demonstration of Karmamasuri	Paddy	Karmamasuri	4	36.4	45.0	23.626	0	10	0	0	10
Bastar	2018-19	Rabi	Varietal Evaluation	Varietal demonstration of Wheat	Wheat	Raj 4238	7.2	14.5	19.64	35.45	0	8	0	10	18
Bastar	2018-19	Kharif	Integrated Crop Management	Improved variety, Seed Treatment with Cabendazim 2.5 gm/kg seed ,PSB and Azatobactor culture each 10 gm per kg seed, Line sowing through seed drill , Foliar application of NPK (19:19:19) at 30 and 45 DAS	Niger	JNC-9	40	4.9	5.175	5.61	0	100	0	0	100

Bastar	2018-19	Kharif	Integrated Crop Management	Improved variety, Seed Treatment with *Trichoderma harzianum* ,PSB and Rhizobium culture each 10 gm per kg seed, Line sowing through seed drill , Weed Management through Weedicide Imezathyper, Yellow Sticky Trap for insect Observation , Use of Micronutrient Boron 0.2 % for increase flowers and optimum production.	Green Gram	IPM-2-3	20	6	7.676	27.93	0	50	0	0	50
Bastar	2018-19	Kharif	Integrated Crop Management	Improved variety, Seed Treatment with *Trichoderma harzianum* ,PSB and *Rhizobium* culture each 10 gm per kg seed ,Weed Management through Weedicide Imezathyper, Yellow Sticky Trap for insect Observation , Use of Micronutrient Boron 0.2 % for increase flowers and optimum production	Black Gram	PU-31	20	6.6	7.8	18.18	0	50	0	0	50
Bastar	2018-19	Kharif	Integrated Crop Management	Improved variety,Seed Treatment with *Trichoderma harzianum* ,PSB and *Rhizobium* culture each 10 gm per kg seed ,Line sowing through seed drill , Soil test based fertilizer application	Horse Gram	Indira Kulthi -1	10	5	5.81	16.2	0	25	0	0	25

Bastar	2018-19	Rabi	Integrated Crop Management	Improved variety, Seed Treatment with Carbendazim 2.5 gm/kg seed, PSB and Rhizobium culture each 10 gm per kg seed, Foliar application of NPK (19:19:19) at 30 and 45 DAS, Insect management through Pheromone Trap	Chickpea	JG-14	20	9.80	17.29	76.43	0	36	0	0	36
Bastar	2018-19	Rabi	Integrated Crop Management	Improved variety, Seed Treatment with *Trichoderma harzianum* ,PSB and Azatobactor culture each 10 gm per kg seed	Linseed	RLC-92	20	4.70	6.55	39.36	0	39	0	0	39
Bastar	2018-19	Rabi	Integrated Crop Management	Improved variety, Seed Treatment with *Trichoderma harzianum* ,PSB and Rhizobium culture each 10 gm per kg seed	Field pea	IPFD-10-12	10	6.90	7.5	8.7	0	24	0	0	24
Bastar	2018-19	Zaid	Integrated Crop Management	Improved variety, Seed Treatment with *Trichoderma harzianum* , PSB and Rhizobium culture each 10 gm per kg seed, Line sowing through seed drill , Weed Management through Weedicide Imezathyper, Yellow Sticky Trap for insect Observation , Use of Micronutrient Boron 0.2 % for increase flowers and optimum production.	Green Gram*	IPM-2-3	20				0	50	0	0	50

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)
Bastar	Performance of line sowing direct seeded rice with reduced seed rate and use of Pre + Post emergence herbicides.	Paddy	Weed density (No./m^2)	57	13	25680	19531	54250	65275	28570	45744	2.1	3.3
Bastar	Demonstration of MTU 1010	Paddy	No. of Effective tiller /m^2	210	280.43	23500	23500	56000	69300	32500	45800	2.38	2.9
Bastar	Demonstration of Pusa Sugandhit (PS-5)	Paddy	No. of Effective tiller /m^2	220.39	290.22	30000	30000	58327.5	70000	28327.5	40000	1.9	2.3
Bastar	Demonstration of Karmamasuri	Paddy	No. of Effective tiller /m^2	272.13	350.6	30000	30000	63700	78750	33700	48750	2.1	2.6
Bastar	Varietal demonstration of Wheat	Wheat	No. of Effective tiller /plant	5.77	6.97	17008.24	17008.24	27550	37316	10541.76	20307.76	1.6	2.19

Bastar	Improved variety, Seed Treatment with Cabendazim 2.5 gm/kg seed ,PSB and Azatobactor culture each 10 gm per kg seed, Line sowing through seed drill , Foliar application of NPK (19:19:19) at 30 and 45 DAS	Niger	Capitula/ plant	17.06	30.02	10774.0	11068.00	24500.00	25895.83	13726.00	14827.83	2.27	2.34
Bastar	Improved variety, Seed Treatment with *Trichoderma harzianum* , PSB and Rhizobium culture each 10 gm per kg seed, Line sowing through seed drill , Weed Management through Weedicide Imezathyper, Yellow Sticky Trap for insect Observation , Use of Micronutrient Boron 0.2 % for increase flowers and optimum production.	Green Gram	No. of Pods per plant	20	55.4	14110.0	17210.00	41850.00	53540.1	27740.00	36330.1	2.97	3.11

Bastar	Improved variety, Seed Treatment with *Trichoderma harzianum* ,PSB and *Rhizobium* culture each 10 gm per kg seed ,Weed Management through Weedicide Imezathyper, Yellow Sticky Trap for insect Observation , Use of Micronutrient Boron 0.2 % for increase flowers and optimum production	Black Gram	No. of Seeds Per pod	5	6.2	17250.0	18912.5	33000.00	39000.00	15750.00	20087.5	1.91	2.06
Bastar	Improved variety,Seed Treatment with *Trichoderma harzianum* ,PSB and *Rhizobium* culture each 10 gm per kg seed ,Line sowing through seed drill , Soil test based fertilizer application	Horse Gram	Pods/plant (number)	11	20.73	9600.00	10650.00	25000.00	29050.00	15400.00	18400.00	2.60	2.73
Bastar	Improved variety, Seed Treatment with Cabendazim 2.5 gm/kg seed ,PSB and Rhizobium culture each 10 gm per kg seed, Foliar application of NPK (19:19:19) at 30 and 45 DAS, Insect management through Pheromone Trap	Chickpea	Plant Height (cm)	52	46	17620.00	25725.00	45276.00	79879.8	27656.00	54154.8	2.57	3.105

Bastar	Improved variety, Seed Treatment with *Trichoderma harzianum* ,PSB and Azatobactor culture each 10 gm per kg seed	Linseed	Capsules/ plant	43	62	15992.00	17200.00	23500.00	32750.00	7508.00	15550.00	1.47	1.90
Bastar	Improved variety, Seed Treatment with *Trichoderma harzianum* , PSB and Rhizobium culture each 10 gm per kg seed, Line sowing through seed drill , Weed Management through Weedicide Imezathyper, Yellow Sticky Trap for insect Observation , Use of Micronutrient Boron 0.2 % for increase flowers and optimum production.	Green Gram*											

3.4 Details of FLDs on Agriculture Engineering implemented during 2018-19

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/Technology/Enterprises	Crop- Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total

3.5 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)

3.6 Details of FLDs on Animal Science implemented during 2018-19

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/Technology/Enterprises	Crop- Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total

3.7 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)

3.8 Details of FLDs on Fishery implemented during 2018-19

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/Technology/Enterprises	Crop- Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
Bastar	2018-19	Kharif & Rabi	Fish Seed Production	Demonstration on use of multi mineral vitamin with traditional fish feed for enhancing fish production	Fish fingerling	Catla, Rohu, Mrigal, Common carp	2.0 ha/ 5 Nos.	18.10	23.50	130%	02	02	01	0	05

Bastar	2018-19	Kharif	Fish Production	Demonstration on Fingerling production in seasonal village ponds.	Fish	Catla, Rohu, Mrigal	1.0 ha/ 5 Nos.	111000 Nos.	204000 Nos.	184%	0	01	01	03	05

3.9 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)
Bastar	Demonstration on use of multi mineral vitamin with traditional fish feed for enhancing fish production	Fish fingerling	Yield in Qtl.	18.10	23.50	88000	95800	253400	329000	165400	233200	2.88	3.43
Bastar	Demonstration on Fingerling production in seasonal village ponds.	Fish	Yield in Nos.	111000 Nos.	204000 Nos.	75500	94700	165500	306000	90000	211300	2.19	3.23

3.10 Details of FLDs on Agriculture Extension implemented during 2018-19

KVK Name	Season & Year	Problem identified	Title	Thematic Area	Source of Technology (Year)	Detail of Technology Demonstrated	Area (ha)	FP (T_1)	RP (T_2)	Variety	No. of Village	No of Demonstration	No. of farmers				
													SC	ST	Others	General	Total

Bastar	2019-20	Low adoption of recommended production technology of *Cairina moschata.*	Assessment of sustainability of *Cairina moschata (*Nag Hans) duck farming	Duck Production and management	Banglore 1996	Recommended production Technology vs existing technology	0.2	0.02	0.2	Muscovy	3	20	0	30	0	0	30
Bastar	2019-20	Low adoption of recommended NADEP & Vermicomposting technology.	Assessment of NADEP & Vermicomposting	Integrated Nutrient Management	S.V.P. University of Agriculture and Technology, Meerut 2010	Recommended technology of NADEP & Vermicomposting						20	0	30	0	0	30

3.11 Impact of FLD

KVK Name	Name of parameter			Data on the parameter			Result	Feedback from the farmer
	1	2	3	1	2	3		

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

KVK name	Year	Season	Thematic Area	Problem Identified	Technology to be Demonstrated as Solution to the Identified Problem	Crop/ Enterprise (In which crop Enterprise or Farming Activity)	Name of Variety/Technology/Entreprizes	Farming Situation	Proposed area (ha)	No. of Beneficiaries

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

	OFT Title					Performance Indicator / Parameter

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

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

KVK name	OFT Title	Performance Indicator / Parameter											
		Production per unit		Cost of input		Incremental income		Yield (Kg/ha)		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		

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

KVK name	OFT Title	Performance Indicator / Parameter													
		Composition of product		Input used		outcome (Kg)		Cost of input		Incremental income		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		

3.12 (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

3.13 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks

3.14 Details of FLD on crop hybrids.

S. No.	Name of the KVK	Name of the Crop	Name of the Hybrids	Source of Hybrid (Institute/Firm)	No. of farmers	Area in ha.
1	Bastar	Maize	900 M Gold	Krishi Kalp Jagdalpur	10	4
2	Bastar	Maize	Shaktiman 2	RMDCARS AMBIKAPUR	25	10

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
KVK, Bastar	Paddy transplanter is the useful implement because less time and	Paddy transplanter	Saving in cost of cultivation	Many farmers ready to adopt this technology
KVK, Bastar	Use of manually operated 8 row drum seeders is effective for line sowing of	8 row paddy drum seeders	Saving in cost of cultivation	Easy for line sowing.
KVK, Bastar	Variety of Paddy (Karma masuri and Samleshwari) is performed well and	Management of blast & other important disease	Midland variety of paddy	Variety of Paddy (Karma masuri and
KVK, Bastar	Mosaic resistance variety of Black gram is performed well in field but	TAU-1 resistant against mosaic and high yielding	Disease resistant variety	Mosaic resistance variety of Black gram is
KVK, Bastar	Hybrid Maize grain production responds well in farmer's field and	Hi-shell high yielding Hybrid varieties are	High yielding variety	Hybrid Maize varieties are suitable for round
KVK, Bastar	Use of integrated pest management tools for pest management	Management Technology utilized such	Increasing awareness of integrated pest management	Farmer adopted demonstrated
KVK, Bastar	Fish Seed Production in seasonal village pond, Composite fish farming	Nursery, Rearing and Stocking Pond	Increasing awareness of Fish farmers for fish seed	Farmer adopted demonstrated

4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested
KVK Bastar	o Required long self-life of harvested fruits varieties in vegetables (Chilli, Tomato) o Multiple resistant varieties of paddy (Blast & stem borer resistant) are required in midland situation.

	o Value addition in fruits and vegetable crops is required. o Conserve the germ plasm of scented rice and other local rice variety o Due to poor yield of scented rice decreased the area therefore need the research in yield increase the scented rice. o research on wilt resistant variety and post emergence weedicide of chickpea o Granular herbicide application in DSR is needed in pre emergence due to unavailable of water in June.

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
KVK, Bastar	Farmers	Group discussion – Seeing the performance of the paddy cultivation in the area few farmers came forward for commercial production	16.07.2018 Nadisagar, Jagdalpur	48
KVK, Bastar	Farmers	Group discussion – Seeing the performance of mushroom cultivation	24.07.2018 Karpawand, Bastanar	43
KVK, Bastar	Farmers	Field visit- Seeing the Fish production for income and employment generation	13.08.2018 Bakawand	29
KVK, Bastar	Farmers	Group discussion – Seeing the performance of the group vegetable cultivation	11.09.2018 Kondaloor, Tokapal	37
KVK, Bastar	Women	Diagnostic field visit - Seeing the value addition of fruits and vegetables due to heavy loss post harvesting and mushroom production for additional income	22.10.2018 Bakawand	43
KVK, Bastar	Women	Diagnostic field visit - Seeing the performance of the mushroom cultivation & production	16.11.2018 Bastanar	39
KVK, Bastar	Rural youth	Field visit- Seeing the processing & value addition, club formation in the area few rural youth came forward for commercial production & marketing	16.12.2018 Bade Chakwa, Bastar	33
KVK, Bastar	Rural youth	Field visit- Seeing the pulses production	28.01.2018 Madhota, Bastar	32

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 for Farmers

Name of KVK	Category (F &FW/ FW)	Training Type (ONC/OFC)	Thematic Area of training	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
Bastar	F & FW	ONC	FIS	Composite Fish farming	7	7	17	6	32	8	38	13	19	12
Bastar	F & FW	ONC	FIS	Integrated Fish farming	6	6	15	3	21	10	52	17	31	8
Bastar	F&FW	ONC	CRP	Scientific production technology of summer green gram	1	1	0	0	0	0	58	10	0	2
Bastar	F&FW	OFC	CRP	Scientific production technology of summer green gram	1	1	0	0	0	0	58	10	0	02
Bastar	F&FW	OFC	PLP	Disease of vegetable crops and their management package	1	1	03	03	02	02	30	10	0	0
Bastar	F&FW	OFC	LPM	Site selection and construction of fish pond for fish seed production and composite fish farming	1	1	06	0	0	0	10	07	0	0
Bastar	F&FW	OFC	CRP	SRI technology and crop diversification	1	1	0	0	0	0	24	06	0	0
Bastar	F&FW	OFC	PLP	Crop diversification and plant protection	1	1	0	0	0	0	24	06	0	0
Bastar	F&FW	OFC	PLP	Crop diversification and plant protection	1	1	0	0	0	02	16	4	0	0
Bastar	F&FW	OFC	AEG	Training on use and maintenance of farm implements	1	1	5	02	6	0	53	18	0	0
Bastar	F&FW	OFC	CBD	Mushroom cultivation	1	1	5	02	6	0	53	18	0	0
Bastar	FW	OFC	HOV	Kitchen garden	1	1	0	0	0	1	0	19	0	0

Name of KVK	Category (F &FW/ FW)	Training Type (ONC/OFC)	Thematic Area of training	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
Bastar	FW	OFC	CBD	Mushroom cultivation	1	1	0	0	0	1	0	19	0	0
Bastar	F&FW	OFC	CBD	Bee keeping	1	1	0	0	0	0	55	09	0	0
Bastar	FW	OFC	CRP	Training on line sowing of rice	1	1	0	0	0	04	0	11	0	0
Bastar	FW	OFC	CBD	Mushroom cultivation	1	1	0	0	0	04	0	14	0	0
Bastar	F&FW	OFC	CBD	Bee keeping	1	1	0	0	5	4	46	11	0	0
Bastar	F&FW	OFC	AEG	Training on harvesting and storage practice of onion crops	1	1	01	03	03	0	48	0	0	0
Bastar	FW	OFC	CBD	Mushroom Cultivation	1	1	0	0	0	0	0	25	0	0
Bastar	F&FW	OFC	SFM	Vermi Composting	1	1	3	0	11	0	73	0	0	0
Bastar	F&FW	OFC	PLP	Integrated Pest Management in Cereals	1	1	3	0	11	04	73	21	0	0
Bastar	F&FW	OFC	OTH	Value addition of horticultural crops	1	1	3	0	11	0	73	0	0	0
Bastar	F&FW	OFC	CRP	Training on line sowing and seed treatment of pulses crops.	1	1	3	0	11	0	73	0	0	0
Bastar	F&FW	OFC	LPM	Training on fish farming	1	1	3	0	11	0	73	0	0	0
Bastar	F&FW	ONC	CRP	Improved cultivation practice of Niger	1	1	0	0	0	0	14	0	0	0
Bastar	F&FW	OFC	HOV	Kitchen garden	1	1	0	0	02	0	19	0	0	0
Bastar	F&FW	OFC	CBD	Mushroom cultivation	1	1	1	1	0	0	02	0	19	0

Name of KVK	Category (F &FW/ FW)	Training Type (ONC/OFC)	Thematic Area of training	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
Bastar	F&FW	OFC	AEG	Training on Use of paddy transplanter and preparation of rice nursery for transplanter	1	1	0	2	2	1	65	44	0	0
Bastar	F&FW	OFC	OTH	Value addition of horticultural crops	1	1	0	2	2	1	65	44	0	0
Bastar	F&FW	OFC	PLP	Integrated Pest Management in Cereals	1	1	0	2	2	1	65	44	0	0
Bastar	F&FW	OFC	CBD	Vermi Composting	1	1	0	0	0	0	67	0	0	0
Bastar	F&FW	OFC	PLP	Integrated Pest Management in Cereals	1	1	0	0	0	0	67	35	0	0
Bastar	F&FW	OFC	LPM	Training on fish farming	1	1	0	0	0	0	67	35	0	0
Bastar	FW	OFC	HOV	Kitchen garden	1	1	0	0	0	3	0	40	0	0
Bastar	F&FW	OFC	SFM	Integrated Pest Management in Cereals	1	1	0	0	4	3	46	40	0	0
Bastar	F&FW	OFC	SFM	Vermi Composting	1	1	0	0	4	0	46	0	0	0
Bastar	F&FW	OFC	OTH	Processing and value addition of tamarind	1	1	2	0	5	0	63	0	0	0
Bastar	F&FW	OFC	LPM	Training on fish farming	1	1	2	0	5	0	63	14	0	0
Bastar	F&FW	OFC	CBD	Mushroom Cultivation	1	1	2	0	5	0	63	14	0	0
Bastar	F&FW	OFC	AEG	Importance of agricultural implements to increase crop production and decreasing production cost	1	1	0	0	6	2	83	33	0	0
Bastar	FW	OFC	HOV	Kitchen Garden	1	1	0	0	0	2	0	33	0	0

Name of KVK	Category (F &FW/ FW)	Training Type (ONC/OFC)	Thematic Area of training	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
Bastar	F&FW	OFC	PLP	IPM in cereals	1	1	0	0	6	2	83	33	0	0
Bastar	F&FW	OFC	CBD	Mushroom Cultivation	1	1	5	0	7	0	85	23	0	0
Bastar	F&FW	OFC	AEG	Importance of summer deep ploughing	1	1	5	0	7	0	85	23	0	0
Bastar	F&FW	OFC	PLP	IPM in cereals	1	1	5	0	7	0	85	23	0	0
Bastar	F&FW	OFC	CBD	Mushroom Cultivation	1	1	2	0	3	3	83	22	0	0
Bastar	F&FW	OFC	SFM	Vermi Composting	1	1	2	0	3	3	83	22	0	0
Bastar	F&FW	OFC	CRP	Package of practice for paddy production	1	1	2	0	3	3	83	22	0	0
Bastar	F&FW	OFC	PLP	IPM in cereals	1	1	0	0	3	0	42	12	0	0
Bastar	F&FW	OFC	CBD	Mushroom Cultivation	1	1	0	0	3	0	42	12	0	0
Bastar	F&FW	OFC	SFM	Vermi Composting	1	1	0	0	3	0	42	12	0	0
Bastar	F&FW	OFC	AEG	Preparation of nursery for paddy transplanter machine	1	1	2	0	2	0	61	25	0	0
Bastar	F&FW	OFC	HOF	Training Programmes in Banana Cultivation	1	1	2	0	2	0	61	25	0	0
Bastar	F&FW	OFC	SFM	Vermi Composting	1	1	2	0	2	0	61	25	0	0
Bastar	F&FW	OFC	CBD	Mushroom Cultivation	1	1	0	0	4	1	59	21	0	0
Bastar	FW	OFC	OTH	Water conservation techniques and development of water shed area	1	1	0	0	0	1	0	21	0	0

Name of KVK	Category (F &FW/ FW)	Training Type (ONC/OFC)	Thematic Area of training	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
Bastar	F&FW	OFC	PLP	IPM in cereals	1	1	0	0	4	1	59	21	0	0
Bastar	FW	OFC	HOV	Kitchen Garden	1	1	0	0	0	0	0	25	0	0
Bastar	F&FW	OFC	PLP	IPM in cereals	1	1	0	0	4	0	62	8	0	0
Bastar	F&FW	OFC	SFM	Vermi Composting	1	1	0	0	4	0	62	8	0	0
Bastar	F&FW	OFC	AEG	Care, maintenance and use of paddy transplanter machine	1	1	0	0	4	0	62	8	0	0
Bastar	F&FW	OFC	HOV	Cultivation practices of fruits and vegetables	1	1	0	0	4	0	62	8	0	0
Bastar	FW	OFC	HOV	Kitchen Garden	1	1	0	0	0	6	0	40	0	0
Bastar	F&FW	OFC	SFM	INM in cereals	1	1	0	0	5	1	40	10	0	0
Bastar	F&FW	OFC	SFM	Vermi Composting	1	1	0	0	5	1	40	10	0	0
Bastar	F&FW	OFC	HOV&HOF	Plantation Technology of Fruits and Vegetable Crops	1	1	2	0	4	3	58	33	0	0
Bastar	FW	OFC	PLP	Weed management of Niger crop	1	1	0	0	0	3	0	33	0	0
Bastar	F&FW	OFC	SFM	INM in cereals	1	1	2	0	4	3	58	33	0	0
Bastar	F&FW	OFC	AEG	Preparation of nursery for paddy transplanter machine	1	1	2	0	4	3	58	33	0	0
Bastar	F&FW	OFC	CRP	Improved cultivation practice of Niger	1	1	0	0	0	0	15	3	0	0
Bastar	F&FW	OFC	AEG	Line Sowing through seed drill	1	1	0	0	0	0	31	0	0	0

Name of KVK	Category (F &FW/ FW)	Training Type (ONC/OFC)	Thematic Area of training	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
Bastar	F&FW	OFC	PLP	IPM In Cereal	1	1	0	0	3	2	48	7	0	0
Bastar	F&FW	OFC	HOV/HOF	Plantation Technology of Fruits and Vegetable Crops	1	1	0	0	3	2	48	7	0	0
Bastar	F&FW	OFC	LPM	Training Programmes in Fisheries/Animal Science	1	1	0	0	3	2	48	7	0	0
Bastar	F&FW	OFC	CBD	Mushroom Cultivation	1	1	4	0	10	0	54	05	0	0
Bastar	F&FW	OFC	SFM	Vermi Composting	1	1	4	0	10	0	54	05	0	0
Bastar	F&FW	OFC	LPM	Training Programmes In Fisheries/Animal Science	1	1	4	0	10	0	54	05	0	0
Bastar	F&FW	OFC	HOV	Kitchen Garden	1	1	4	0	10	0	54	05	0	0
Bastar	F&FW	OFC	CBD	Processing and value addition of minor millets	1	1	4	0	10	0	54	05	0	0
Bastar	F&FW	OFC	SFM	Importance and use of neem coated urea, zin coated SSP for rice crop	1	1	0	0	2	4	41	12	0	0
Bastar	F&FW	OFC	AEG	Post-harvest technology of Kharif crop	1	1	0	0	2	4	41	12	0	0
Bastar	F&FW	OFC	LPM	Training Programmes in Fisheries/Animal Science	1	1	0	0	2	4	41	12	0	0
Bastar	F&FW	OFC	AEG	Rice production using rice transplanter machine	1	1	0	0	2	4	41	12	0	0
Bastar	F&FW	OFC	SFM	INM In Cereals	1	1	0	0	2	4	41	12	0	0
Bastar	F&FW	OFC	HOV&HOF	Training on Plantation Technology of Fruits and Vegetable Crops	1	1	0	0	2	4	41	12	0	0
Bastar	F&FW	OFC	HOV	Training Programme on Cultivation of Vegetables	1	1	0	0	2	4	41	12	0	0

Name of KVK	Category (F &FW/ FW)	Training Type (ONC/OFC)	Thematic Area of training	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
Bastar	F&FW	ONC	CRP	Horse gram Cultivation practice	1	1	0	0	2	0	30	0	0	0
Bastar	F&FW	ONC	AEG	Safe harvesting of Rice crop to minimize shattering loss	1	1	0	0	0	0	40	0	0	0
Bastar	FW	ONC	WOE	Vegetables production technology for Rabi Season	1	1	0	0	0	0	0	62	0	0
Bastar	FW	ONC	WOE	Oyster mushroom cultivation technology	1	1	0	0	0	0	0	65	0	0
Bastar	F&FW	OFC	CRP	Training on oilseed Niger crop	1	1	0	0	2	0	28	4	0	0
Bastar	F&FW	OFC	HOV	Kitchen Garden	1	1	4	4	0	0	53	37	0	0
Bastar	F&FW	OFC	CBD	Mushroom Cultivation	1	1	5	0	0	0	45	20	0	0
Bastar	F&FW	OFC	SFM	Vermi composting	1	1	4	4	0	0	53	37	0	0
Bastar	F&FW	OFC	AEG	Use of seed cum fertilizer drill machine for sowing of Rabi Crops	1	1	5	0	0	0	45	20	0	0
Bastar	F&FW	OFC	SFM	INM in Cereals	1	1	4	4	0	0	53	37	0	0
Bastar	F&FW	OFC	CBP	Mushroom production- an alternate source of income	1	1	5	0	0	0	45	20	0	0
Bastar	F&FW	OFC	AEG	Training on processing and Value Addition of Tamarind	1	1	0	0	0	0	40	160	0	0
Bastar	F&FW	ONC	CRP	Training program on improved production technology of Niger crop	1	1	0	0	0	0	30	0	0	0
Bastar	F&FW	ONC	CRP	Farmers training on improved technology of chickpea	1	1	0	0	0	0	26	04	0	0
Bastar	F&FW	OFC	HOV	Training Program in Kitchen Garden	1	1	0	0	0	0	28	12	0	0

Name of KVK	Category (F &FW/ FW)	Training Type (ONC/OFC)	Thematic Area of training	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
Bastar	F&FW	OFC	HOV	Training Program in Kitchen Garden	1	1	0	0	5	4	23	20	0	0
Bastar	F&FW	OFC	PLP	Disease management in vegetables.	1	1	0	0	8	0	64	14	0	0
Bastar	F&FW	OFC	PLP	Disease management in paddy at watershed area	1	1	0	0	12	8	65	15	0	0
Bastar	F&FW	OFC	HOV	Training Program in Kitchen Garden	1	1	0	0	0	0	39	14	0	0
Bastar	F&FW	OFC	HOF	Training Program on Banana Cultivation	1	1	0	0	0	0	28	12	0	0
Bastar	F&FW	OFC	PLP	Use of insecticides in horticultural crops	1	1	0	0	0	0	41	12	0	0
Bastar	F&FW	OFC	HOF	Training Program on Banana Cultivation	1	1	0	0	7	8	25	15	0	0
Bastar	F&FW	OFC	HOO	Training program in Floriculture	1	1	0	0	0	0	28	12	0	0
Bastar	F&FW	OFC	OTH	Safe harvesting of Rice crop to minimize shattering loss	1	1	0	0	5	4	23	20	0	0
Bastar	F&FW	OFC	HOO	Training program in Floriculture	1	1	0	0	5	0	30	15	0	0
Bastar	F&FW	OFC	PLP	Disease management in Kharif crops with special reference to paddy, moong, urd and niger	1	1	0	0	0	0	39	14	0	0
Bastar	F&FW	OFC	OTH	Training program in value addition of pulse	1	1	0	0	7	0	36	12	0	0
Bastar	F&FW	OFC	CRP	Improved production technology on SRI rice	1	1	0	0	0	2	38	12	0	0
Bastar	F&FW	OFC	SFM	Importance of organic fertilizer for sustainable agriculture	1	1	0	0	0	0	41	12	0	0
Bastar	F&FW	OFC	CRP	Cultivation practices of Kharif pulses	1	1	0	0	7	0	51	18	0	0

Name of KVK	Category (F &FW/ FW)	Training Type (ONC/OFC)	Thematic Area of training	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
Bastar	F&FW	OFC	SFM	Effect of pre and post emergence herbicide on rice-based cropping system	1	1	0	0	7	8	25	15	0	0
Bastar	F&FW	OFC	SFM	Collection and testing of soil samples	1	1	0	0	0	2	38	12	0	0
Bastar	F&FW	OFC	CRP	Cultivation practices of Kharif pulses	1	1	0	0	0	0	41	12	0	0
Bastar	F&FW	OFC	AEG	Care, maintenance and use of paddy transplanter machine	1	1	0	0	5	0	48	13	0	0
Bastar	F&FW	OFC	CRP	Cultivation practices of flowers during Rabi Season	1	1	0	0	8	7	28	15	0	0
Bastar	F&FW	OFC	PLP	Disease management in horticultural crops at watershed area	1	1	0	0	10	0	35	15	0	0
Bastar	F&FW	OFC	FIS	Composite Fish Farming	1	1	0	0	0	0	52	20	0	0
Bastar	F&FW	OFC	FIS	Fish Seed Production in seasonal village ponds	1	1	0	0	12	8	65	15	0	0
Bastar	F&FW	OFC	SFM	Micronutrient efficiency symptoms in Maize and its correction measures	1	1	0	0	7	0	51	18	0	0
Bastar	F&FW	OFC	WOE	Fruits and vegetables preservation	1	1	0	0	0	0	39	14	0	0
Bastar	F&FW	OFC	CRP	Training on line sowing and fertilizer use in Rice	1	1	0	0	0	0	14	13	0	0
Bastar	F&FW	OFC	HOV	Nursery preparation for vegetables production	1	1	02	03	0	0	30	15	0	0
Bastar	F&FW	OFC	AEG	Field preparation by agricultural implements and their maintenance after use	1	1	02	0	7	6	28	16	0	0
Bastar	F&FW	OFC	HOV	Plant protection technique for vegetables production	1	1	0	0	8	7	28	15	0	0

Name of KVK	Category (F &FW/ FW)	Training Type (ONC/OFC)	Thematic Area of training	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
Bastar	F&FW	OFC	PLP	Weed management in Rice crops	1	1	0	0	8	0	64	14	0	0
Bastar	F&FW	OFC	CBD	Training on Vermi composting.	1	1	0	0	0	0	14	13	0	0
Bastar	F&FW	OFC	SFM	Integrated nutrient management in cereal crops	1	1	0	0	0	0	41	12	0	0
Bastar	F&FW	OFC	CBD	Mushroom Cultivation	1	1	0	0	5	4	23	20	0	0
Bastar	F&FW	OFC	CBD	Bee Keeping	1	1	0	0	7	0	36	12	0	0

Table 5.2. Details of Training Programmes conducted by the KVKs for Rural Youth

Name of KVK	Category (RY)	Training Type (ONC/OFC)	Thematic Area of training	No. of Courses	Duration (Days)	Participants							
						Gen		SC		ST		Others	
						M	F	M	F	M	F	M	F
Bastar	RY	ONC	HOV	3	1	2	0	25	13	75	16	0	0
Bastar	RY	ONC	FIS	2	1	13	0	16	2	25	6	5	1
Bastar	RY	OFC	AEG	1	1	0	0	2	0	40	0	0	0
Bastar	RY	OFC	CRP	6	1	15	0	48	18	192	142	0	0

Table 5.3. Details of Training Programmes conducted by the KVKs for Extension Personnel

Name of KVK	Category (IS)	Training Type (ONC/OFC)	Thematic Area of training (if other please specify name)	No. of Courses	Duration (Days)	Participants							
						Gen		SC		ST		Others	
						M	F	M	F	M	F	M	F
Bastar	IS	OFC	SFM	1	1	15	4	11	7	4	2	8	3
Bastar	IS	ONC	AEG	1	1	7	3	9	4	2	3	18	6

Bastar	IS	ONC	HOV	1	1	4	2	7	5	11	4	16	6
Bastar	IS	ONC	PLP	1	1	3	1	8	2	7	2	20	4

Table 5.4. Details of Vocational training programmes for Rural Youth conducted by the KVKs

Name of KVK	Thematic Area		Training title	Name of Crop / Enterprise	Identified Thrust Area	No of Courses	Duration of training (days)	Number of Beneficiaries							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
Bastar	CRP	Organic farming	Training on vermi compost production	Vermicompost	Income generation	01	25	4	0	0	0	16	0	0	0
Bastar	OTH	Income generation activities	Training on Bee Keeping	Honey Bee	Capacity building	01	05	4	0	0	0	19	7	0	0
Bastar	CBD	Income generation activities	Training on production of Mushroom	Mushroom	Women empowerment	01	25	0	0	0	0	3	17	0	0

Table 5.5. 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		
Bastar	Feed and fodder production	LPM	Round the year fodder management and fodder seed production technology	RY	4	1	0	0	0	0	0	0	190	10	Dept of Agronomy, IGKV, Raipur	100000.00
Bastar	Swachhta abhiyan	OTH	Training on cleanliness under Swacchta Abhiyan	FW	1	1	0	0	0	0	5	3	18	15	ATARI	6000.00

Bastar	Fruits and vegetables cultivation technology	CRP	Organic production of fruits and vegetables	RY	6	1	0	0	0	0	0	0	15	0	MANAGE, Hyderabad	42000.00

Table 5.6. 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	
KVK, Bastar	Training on fish production technology	Fish production	5	5	9
KVK, Bastar	Training on paddy transplanter	Rice cultivation	4	6	2
KVK, Bastar	Training on Cattle rearing	Cattles rearing	4	4	10
KVK, Bastar	Training on group vegetable farming and kitchen gardening	Group vegetable farming & kitchen gardening	5	17	8
KVK, Bastar	Training on poultry rearing	Poultry production	3	3	10
KVK, Bastar	Training on mushroom production	Mushroom cultivation	19	19	02

Table 5.7 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 5.8 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	
KVK, Bastar	Mushroom Cultivation	20	3	8	--	--	50000.00/ANNUM	75000.00/ANNUM	15 farmers adopted & 75% change in knowledge, production and income
KVK, Bastar	Mushroom Production Technology	25	3	9	--	--	50000.00/ANNUM	75000.00/ANNUM	19 farm women adopted & 85% change in knowledge, production and income
KVK, Bastar	Vegetable production	6	18	36	27.2	29.50	65000	78000	46 ha expended in vegetable cultivation in drip irrigation
KVK, Bastar	Fish Seed Production	40	10%	30%	100000 Nos.	195000 Nos.	3000 (in 3 months)	9450 (in 3 months)	1. 2ha 2. 05 nos. 3. 0-315%
KVK, Bastar	Composite Fish Farming	239	20%	55%	5	21	10000	45000	1. 8ha 2. 18 nos. 3. 200-450%
KVK, Bastar	Integrated Fish Farming	101	15%	45%	5	13	10000	43000	1. 5ha 2. 13 nos. 3. 200-430%

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
KVK, Bastar	Advisory Services	44	48	450	105	9354	612	117	45	Advisory	Production technology, control of disease and pests	vegetative, flowering and maturity stage
KVK, Bastar	Agri mobile clinic	4	5	18	19	161	48	32	12	To solve the problems on agriculture	Production technology of crops, vegetables and fish	Vegetative/maturity stage
KVK, Bastar	Animal Health Camp	2	2	12	7	74	19	2	1	Animal health care	Common Health Problems in farm animals and pets	Rainy season
KVK, Bastar	Awareness programme	3	6	18	12	98	46	5	2	Income generation activity	Production technology of field crops, vegetables, fish, value addition and NTFP	sowing to harvesting and storage

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			
KVK, Bastar	Celebration of important days	6	6	15	9	261	75	12	4	To solve the problem on agriculture and advertise the activities	Production technology of field crops, vegetables and fish	Vegetative/maturity stage
KVK, Bastar	Diagnostic visits	120	158	127	45	532	178	18	6	To solve problems of the farmers	Crop production technology	Flowering and fruiting stage
KVK, Bastar	Exhibition	15	27	1348	521	2168	435	132	45	Display the production technology and live method	Demonstration of KVK activities and production technology	Mid Kharif & Rabi
KVK, Bastar	Exposure visits	10	18	52	16	352	89	4	2	To see the production technology of different agricultural	Production technology of field crop, vegetables, fish and fish seed,	Flowering and fruiting stage

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	Topics	Crop Stages
				M	F	M	F	M	F			
										component	National kisan mela	
KVK, Bastar	Extension Literature	5	12	115	29	1249	425	36	19	To documentation of production technology for upgrade the knowledge of farmers	Production technology of field crops and vegetables and control of disease & pests, value addition	early growth stage and flowering stage
KVK, Bastar	Ex-trainees Sammelan	4	6	12	7	149	36	4	0	To Share the experience on agriculture	Production technology of field crop, vegetables and fish	Vegetative/maturity stage
KVK, Bastar	Farm advisory Services	20	32	36	14	198	52	8	2	Rectify the agriculture production problems	Production technology, control of disease and pests	vegetative, flowering and maturity stage
KVK, Bastar	Farm Science Club conveners meet	-	-	-	-	-	-	-	-	-	-	-

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			
KVK, Bastar	Farmers Seminar/Workshop	5	5	25	6	145	16	6	2	For sharing knowledge of vegetable production	Kharif and Rabi crop production	Vegetative growth stage
KVK, Bastar	Farmers visit to KVK	55	82	125	19	792	148	105	16	To see the crop cafeteria and different technologies and Rectify the agriculture production problems	Production technology of field crops, vegetables, fish farming, control of disease and pests and value addition	flowering stage
KVK, Bastar	Field Day	8	8	10	4	356	46	8	2	To disseminate improved production technology	Improved cultivation of crop	Vegetative stage, reproductive stage and pre-harvesti

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			
												ng stage
KVK, Bastar	Film Show	6	8	86	51	398	87	22	8	To educate farmers about new technology	Crop production, plant protection, weeding, vermicomposting, poultry farming, piggery rearing, mushroom production, farm implement and fish production	Sowing stage
KVK, Bastar	Group meetings	5	8	29	12	145	51	16	7	Discussion with farmers	production technology and plant protection, organic farming	sowing and vegetative stage
KVK, Bastar	Interface	-	-	-	-	-	-	-	-	-	-	-
KVK, Bastar	Kharif/Rabi Sammelan	2	2	148	81	840	145	22	8	Pre - kharif	Improve producti	Before sowing

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			
										& Rabi samme lan	on technol ogy of kharif	
KVK, Bastar	Kisan Ghosthi	12	18	27	16	218	91	21	7	Discuss ion and interfac e with farmers	Productio n technolo gy and plant productio n	Vegetat ive stage, reproduc tive stage and pre-harvesti ng stage
KVK, Bastar	Kisan Mela	2	2	145	36	1572	215	55	9	PMFB Y, Pre Kharif and Rabi Mela, World Soil Health Day	Improved cultivatio n technolo gy of crops	Pre Kharif & Rabi i.e. before sowing stage
KVK, Bastar	Krishi Gyan Doot meet	2	2	16	2	55	4	2	0	Discuss ion and interfac e with Krishi gyan doot/far mer's friend	Productio n technolo gy and plant productio n	Vegetat ive stage, reproduc tive stage and pre-harvesti

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			
												ng stage
KVK, Bastar	Krishi Mahotsav	1	1	32	18	195	47	10	2	To educate farmers about new technology	Crop production, plant protection, weeding, vermicomposting, poultry farming, piggery rearing, mushroom production, farm implement and fish production	Sowing stage
KVK, Bastar	Lectures delivered as resource persons	29	55	75	31	986	191	29	12	Discussion with farmers	Production technology and plant protection	Before harvesting, flowering
KVK, Bastar	Mahila Mandals conveners meetings	1	1	0	2	0	48	0	0	Women empowerment for income	Production of field crops, vegetables, fish,	Vegetative/maturity stage

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	Topics	Crop Stages
				M	F	M	F	M	F			
										generation	value addition and NTFP	
KVK, Bastar	Method Demonstrations	4	7	41	16	258	67	14	6	Demonstration of new technology	Spray of weedicide, Nursery preparation, mushroom production, fish production, vegetable and crop production	Sowing stage
KVK, Bastar	Newspaper coverage	44	49	mass	mass	mass	mass	mass	mass	To spreading the technology/activities	Production technology of field and vegetables crop	sowing time, flowering and maturity
KVK, Bastar	Popular articles	12	21	mass	mass	mass	mass	mass	mass	To aware and increase the knowledge of	Production technology of field crops, vegetables and fish	early growth stage and flowering stage

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			
										the farmers		
KVK, Bastar	Pradhanmantri phasal beema yojana	1	1	21	16	116	47	10	2	To educate farmers about fasal bema scheme	Pradhan mantri fasal beema yojna	Sowing stage
KVK, Bastar	Radio talks	2	4	mass	mass	mass	mass	mass	mass	To spreading the technology/activities	Production technology of field crops and vegetables and problem solved	flowering stage
KVK, Bastar	Scientific visit to farmers field	44	58	56	27	247	72	4	2	Diagnose and provide knowledge to farmers	Production technology of field crops, vegetables, fish farming, and control of disease and pest	vegetative and flowering stage
KVK, Bastar	Self Help Group conveners meetings	2	4	0	0	78	16	0	0	To strain thing	Production technolo	sowing to harvesti

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	Topic s	Crop Stages
										the activities for income generation	gy of field crops, vegetables, fish, value addition and NTFP	ng and storage
KVK, Bastar	Soil health Camp	3	5	22	8	148	38	31	14	Soil health management	Soil status and requirement of manure/fertilizers to the crop	Before sowing
KVK, Bastar	Soil test campaigns	2	2	19	8	175	21	12	7	To know the soil health status	Soil health improvement and soil testing procedure	Before sowing
KVK, Bastar	Summer deep ploughing campaigning	1	2	9	4	56	4	0	0	Summer Ploughing	Management of Dormen t insects	summer
KVK, Bastar	Technology Week Celebration	2	4	13	3	168	31	2	1	Diagnose and provide knowle	Production technology of field	vegetative and flowering stage

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			
										dge to farmers	crops, vegetables, fish farming, and control of disease and pest	
KVK, Bastar	TV talks	2	2	mass	mass	mass	mass	mass	mass	To spreading the technology	Production technology of field crops, fish farming, flower production technology and nursery management	Flowering, maturity stage
KVK, Bastar	Workshop	3	4	19	8	124	16	8	2	For sharing knowledge of vegetable production	PPV&FRA, Kharif and Rabi crop production	Vegetative growth stage
KVK, Bastar	Others	4	7	76	28	348	85	69	28	To solve the	Production technolo	Vegetative/mat

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
										problems on agriculture	gy of crops, vegetables and fish	urity stage

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
KVK, Bastar	1 April	April- June	500	500
KVK, Bastar	1 July	July- Sept.	500	500
KVK, Bastar	1 October	Oct.- Dec.	500	500
KVK, Bastar	1 January	January- March	500	500

7.2 Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Bastar	Research Demo.	Effect of fish cum duck farming system on productivity of fish pond	Toshan Kumar Thakur, Pradeep Kumar Singh, Lekh Ram Verma, G.P Ayam	500
Bastar	Popular article	Dhan Fasal Ke Pramukh Kit Evam Rog: Pehchan Evam Niyantran	Shweta Mandal, Lekhram Verma and G. P. Ayam	500
Bastar	Popular article	Green House Me Mrida Swasthya Prabandhan	Shweta Mandal, G. P. Ayam	500
Bastar	Popular article	Bahut Upyogi Hai Swachalit Vertical Conveyor Reaper	Er. Rahul Sahu, Dushyant Pandey & L. R. Verma	500
Bastar	Popular article	Bijopchar Ek Fayde Anek	Swati Thakur	500
Bastar	Popular article	Tamatar Ke Pramukh Rog Evam Keet Ka Prabandhan	Smt. S. M. Khalko	500
Bastar	Popular article	Anaj Ka Surakshit Bhandaran	Ku. Swati Thakur, Sh. L. R. Verma	500
Bastar	Popular article	Rice weed management	Ku. Swati Thakur, Sh. L. R. Verma	500

Bastar	Popular article	Ankurit Dhan ki katar bowai	Dushyant Pandey, Toshan Thakur, Er. Rahul Sahu & Mrs. Gunjan Jha	500
Bastar	Popular article	Unnat Krishi Yantro Ki Upyogita	Er. Rahul Sahu	500
Bastar	Popular article	Jaivik vidhi se dhan utpadan taknik	Sh. L. R. Verma	500
Bastar	Literature	Dhan ke kharpatwar avam prabandhan	Ku. Swati Thakur, Sh. Lekh Ram Verma & Dushyant Pandey	500
Bastar	Literature	Dhan ki jaivik kheti	Sh. Lekh Ram Verma & G. P. Ayam	500
Bastar	Popular article	Gerbera cultivation under the polyhouse	Shweta Mandal,Khalko & L.R Verma,	500
Bastar	Research paper	Induced Mutagenesis for Morphological Changes in Gladiolus (Gladiolus grandiflours L.)	Abhilash Shukla,Gaurav Sharma,Sushil Kashyap, Manisha Netam	500
Bastar	Research paper	Effect of Gamma rays on flowering and vase life of gladiolus (Gladiolus grandiflours L.)	Abhilash Shukla, Sushil Kashyap, Vikas Ramteke Manisha Netam	500
Bastar	Abstract	Induced Mutagenisis for morphological; changes in gladiolus	Abhilash Shukla, Sushil Kashyap, Vikas Ramteke	500

7.3 Details of Electronic Media Produced

KVK Name	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
Bastar	CD	Mushroom production technology	15

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.)
Bastar	Cereals	Paddy	Bamaleshwari	99.20	248000	307	122.8
Bastar	Cereals	Paddy	Mahamaya	164.10	410250	508	203.2
Bastar	Pulses	Chickpea	Vaibhav	6.30	71820	16	6.4
Bastar	Pulses	Field pea	Indira Matar 1	23.30	178478	58	23.2
Bastar	Pulses	Green Gram	HUM 12	4.00	39200	50	20
Bastar	Oilseed	Mustard	CG Sarson	1.62	19278	32	12.8
Bastar	Oilseed	Wheat	MP 1203	6.12	30600	20	8

8.2 Planting Material production

KVK Name	Major group/class	Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Bastar	Grafted	Mango	Dussehri, Mallika, Amrapali,Alfanjo etc	2000	50000.00	100	10
Bastar	Grafted	Hibiscus	Hibiscus	5000	100000.00	10	02
Bastar	Vegetables	Chilli	VNR 435, Namdhari- 1701, Pusa jwala	150000	150000.00	25	03
Bastar	Vegetables	Cabbage	F1	20000	10000.00	15	01
Bastar	Vegetables	Brinjal	F1, PPL, PPC,	20000	10000.00	22	03
Bastar	Vegetables	Cauliflower	F1	15000	7000.00	15	1.5
Bastar	Flower	Marigold	Double orange	100000	50000.00	30	03

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.)
KVK, Bastar	Bio Agents	Vermicompost	3500	--	7000	03	02
KVK, Bastar	Bio Agents	Verms	15	15000	15000	7	0.1
KVK, Bastar	Bio Agents	Spawn	50	250	7500	10	0.1

8.4 Livestock and fisheries production

KVK Name	Name of the animal / bird / aquatics	Breed	Type of Produce	Qty. (kg/qt./liter)	Value (Rs.)	No. of Beneficiaries
Bastar	Fish	Catla, Rohu Mrigal, Common carp	Food fish	600 Kg.	84000.00	many
Bastar	Fish Spawn	Catla, Rohu Mrigal	Seed	3000000 Nos.	24000.00	05
Bastar	Fish Fingerlings	Catla, Rohu Mrigal	Seed	252750 Nos.	214315.00	05

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)
KVK, Bastar	Soil testing lab	2008	Mini lab	517	517	25	--	517

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)

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
Bastar	12.07.2018	Adoption of water harvesting technology	RY	1	42	2	44	42	2	44

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)
Bastar								

***Farmers hostel is being utilized as boy's hostel of College of Horticulture & Research Station, IGKV, Jagdalpur (C.G.).**

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
Bastar	2010-11	2010-11	05	00	-

13. **Details of SAC Meeting**

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Bastar	25.06.2018	29	▪ Works should be done to promoting value addition of tamarind. ▪ Work should be based on use of herbicide, meccanization of farm practices. ▪ Market linkage of forest produce. ▪ Minimizing inputs and manual farm practices. ▪ Research should be applicable on field level. ▪ Farmers are giving good feedback for use of weedicide and effective as there is high labour cost and timely unavailability of labour therefore more demonstrations are required for it in different condition of soil moisture. ▪ Implementation and use of automatic seed drill at farmer's field is required therefore demonstration of it at farmer's field should be emphasized. ▪ Low cost of production, less water requirement and good yield of Rajma (Kidney bean) area and numbers of demonstration on Rajma should be taken more. ▪ Fish in this region demonstration on fisheries technology should be taken more to promote high fish production in Bastar.

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

KVK Name	No. of messages sent	No. of beneficiary		Total Number of villages	Number of villages covered	Sponsoring agency (NIC, Farmers Portal, etc.)	Major recommendations
		Farmers	Ext. Pers.				
BASTAR	46	24693	230	108	101	Farmers Portal	Management of field crops, vegetables and plantation crops by efficient use of bio control agents, chemicals etc. Advance crop production technology of different crops etc.

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

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received (Rs. Lakh)	Activities organized	Operational Area	Remarks
Bastar	Land leveling and Drainage channel	State Agency - Zila Panchayat, Bastar (C.G.)	03.77	Land leveling and Drainage channel	KVK, Bastar	
Bastar	Convergence through vegetable and fruit cultivation	State Agency - Zila Panchayat, Bastar (C.G.)	18.07	vegetable and fruit cultivation	Badechakwa, Nadisagar, Kondaloor, Palli	
Bastar	10 Acre Drip Irrigation System	State Agency - Zila Panchayat, Bastar (C.G.)	04.69	Drip Irrigation System	Badechakwa, Kondaloor, Turangur	
Bastar	Fencing Work	State Agency - Zila Panchayat, Bastar (C.G.)	02.16	Fencing Work	Kondaloor	
Bastar	Lift irrigation pipeline project (For 1500 m)	State Agency - Zila Panchayat, Bastar (C.G.)	03.59	Lift irrigation pipeline work	Kondaloor	
Bastar	Characterization of land resource for development of Agriculture land use plan for Jagdalpur Block Bastar district of CG state using RS & GIS	State Agency - Zila Panchayat, Bastar (C.G.)	20.58	Characterization of land resource for development of Agriculture land use plan	Block-Jagdalpur	
Bastar	Livelihood generation through production & marketing of Organic rice	State Agency - Zila Panchayat, Bastar (C.G.)	15.31	Production & marketing of Organic rice	Badechakwa, Nadisagar, Turangur	
Bastar	DMFT – Kadaknath Hatchery (400 hen)	State Agency - Zila Panchayat, Bastar (C.G.)	14.40	Establishment of Kadaknath Hatchery Unit	KVK, Bastar	
Bastar	DMFT – Kadaknath Hatchery (200 hen)	State Agency - Zila Panchayat, Bastar (C.G.)	08.74	Establishment of Kadaknath Hatchery Unit	Dharaur-Lohandigura, Badlawand-Bakawand	

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
KVK, Bastar	10480252036	490600.00	470500.00	470500.00

17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Bastar	Sh. Dhamrudhar Baghel	Krishak Samriddhi Award - Famer	Krishak Samriddhi, Raipur	Cerfitcate & Momento
Bastar	Sh. Nadgu Ram Kashyap	Krishak Samriddhi Award - Famer	Krishak Samriddhi, Raipur	Cerfitcate & Momento
Bastar	Sh. Vinod Kumar Kashyap	Krishak Samriddhi Award - Famer	Krishak Samriddhi, Raipur	Cerfitcate & Momento
Bastar	Sh. Libru Ram Nag	Krishak Samriddhi Award - Famer	Krishak Samriddhi, Raipur	Cerfitcate & Momento
Bastar	Sh. Vinod Kumar Kashyap	Krishak Samriddhi Award - Famer	Krishak Samriddhi, Raipur	Cerfitcate & Momento

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.	Bastar	No	-

b) Details about Technology Park

Name of KVK	Name of Component of Park	Detail Information (If established)
Bastar	Crop Cafeteria	Different improve/hybrid varieties of crops in Kharif, Rabi and Summer season are sowing for demonstration for visitors and live models of Rain Water harvesting, Mushroom production, Fish production and breeding unit
Bastar	Technology Desk	Solve the farmers problems as per need based by the scientists
Bastar	Visitors Gallery	Different crops technology for demonstration for visitors
Bastar	Technology Exhibition	Value added products, production technology, literatures, etc. display in exhibition hall
Bastar	Technology gate valve	

c). Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria
1.	Demonstration of improved varieties of cereals, oilseeds and pulses.	01
2.	Demonstration of Pond based IFS Model (Duck cum Fish Production with fruit plant Papaya and Tubers demonstration)	01
3.	Demonstration of Agro- Horti based Model (Mango fruit plant with cropping)	01
4.	Cattle unit	01
5.	Poultry unit	01
6.	High tech poly house	01
7.	Green shade net house	01
8.	Dairy Unit	01
9.	Mushroom production unit	01

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	KVK, Bastar	Mr. Damrudhar	Micro Irrigation	Village Badechakwa Block Jagdalpur 9407297389
2	KVK, Bastar	Mrs. Lachni	Kitchen Garden	Village Balikonta Block Jagdalpur
3	KVK, Bastar	Mr. Girdhar Kashyap	Water Melon Cultivation	Village Badechakwa Block Bastar 7745933182
4	KVK, Bastar	Mr. Kamal Kishor Kashyap	Cultivation of improved variety rice and scented variety Rice, Wheat, fieldpea etc.	Village Badechakwa Block Bastar 8889410999
5	KVK, Bastar	Mr. Jayman	Rice-Tomato-Water melon-Red amaranthus cropping system	Village Badechakwa Block Bastar 07587356674
6	KVK, Bastar	Mrs. Raiwari	Group vegetable Farming	Village Kondaloor Block Tokapal 7089925195
7	KVK, Bastar	Mrs. Dayamati	Cultivation of improved variety rice with package of practices.	Village Singhanpur Block Tokapal
8	KVK, Bastar	Mr. Mohan	Round the year Vegetable cultivation	Village Badechakwa Block Bastar 9424158753
9	KVK, Bastar	Mr. Sonu Ram Mandavi	Hybrid vegetable seed production	Village Badebandri Block Kondagaon
10	KVK, Bastar	Mr. Sukhman	Integrated farming system	Village Badechakwa, Block Bstar 9516507247

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	20th June 2018 (Live TV telecast programme of Hon'ble PM Ke Man Ki Bat)	04
2	05th December 2018 (World Soil Health Day Programme)	07
3	24th March 2019 (Live TV telecast programme of Hon'ble PM Ke Man Ki Bat)	08

21. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
KVK Bastar	05	03	25	172

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

23. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
1	KVK, Kanker	Farm Machineries, Mushroom Production and Group activities	Improve technologies in groups and market linkage
2	KVK, Dantewada	Organic farming, Badi development works	Vegetable and fruit production activities
3	KVK, Bijapur	Mushroom production	Mushroom
4	KVK, Narayanpur	Local species of different crops (tuber crops)	Tuber crops

24. **Important visitors to KVK**

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Bastar	Dr. A. K. Tiwari Director G.O.I. (Min of Agri & FW), Directorate of Pulses Development, Bhopal	28.08.2018		3	8	
Bastar	Dr. N. Sudhakar, Former Director, ICAR-ATARI, Zone – X, CRIDA Campus, Hyderabad	10.10.2018	3	1	7	
Bastar	Dr. S. K. Jha, Comptroller, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.)	15.10.2018		4	9	
Bastar	Dr. M. Madhu & Dr. D. C. Sahoo, IISWC, RC, Sunabeda, Koraput, Odisha	19.12.2018		1	6	
Bastar	Dr. S. Patel, Professor & Head/Nodal Officer (ICAR), Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.)	15.01.2019		4	6	
Bastar	Dr. A. L. Rathore, Director Extension Services, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.)	07.02.2019		3	7	
Bastar	Dr. H. P. Singh, Former DDG (Horticulture), Chairman-CHAI, Secunderabad, Telangana	15.02.2019	1	1	4	
Bastar	Dr. V. Rajendran, Dean, AEC&RI, Kumlur, TNAU, Coimbatore	16.02.2019		2	5	
Bastar	Dr. S. K. Patil, Hon'ble Vice Chancellor, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.)	06.03.2019		12	15	

25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1	KVK, Bastar	04.11.2012	98	8787

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			
Bastar	---	--	--	--	--	---	--

27. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals	Remarks
1.	**KVK, Bastar**	**03**	**03**	**-**

28. Status of Citizen Charter

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

29. Attended HRD Programmes organized by ZPD

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
1.	Sh. G. P. Ayam	Senior Scientist & Head	03	
2.	Sh. T. K. Thakur	Subject Matter Specialist	01	
	Total		**04**	

Name of KVK	Total Number of staff Attended HRD Programme organized by ZPD (nos)	Total Number of Programme attended (Nos)
KVK, Bastar	**04**	**04**

30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
KVK, Bastar	Sh. G. P. Ayam	Sr. Scientist & Head (I/c)	02	

KVK, Bastar	Sh. L. R. Verma	SMS (Extension Education)	01	
KVK, Bastar	Ku. Swati Thakur	SMS (Agronomy)	01	

Name of KVK	Total Number of staffs Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
KVK, Bastar	**04**	**04**

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
Bastar	Mr. L. R. Verma	Subject Matter Specialist	01	Short course
Bastar	Mr. T. K. Thakur	Subject Matter Specialist	01	

Name of KVK	Total Number of staff Attended HRD Programmes by KVK staff (nos)	Total Number of Programmes attended (Nos)
KVK, Bastar	**02**	**02**

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
Bastar	Invasion of fall army worm insect in Maize crop	Invasion of fall army worm insect invaded in Bastar	ZPD, IGKV (DRS, DES, Entomology Dept), State Agriculture Department

33. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
KVK, Bastar	Gosthies	08	267	Improve cultivation of cereals, Maize and pulses Gram
KVK, Bastar	Lectures organized	16	267	Improve cultivation of tubers, Vegetables and pulses
KVK, Bastar	Exhibition	01	310	Value addition, tuber biodiversity, sindoor processing, Package of practices
KVK, Bastar	Film show	02	98	Production technology
KVK, Bastar	Fair	-	-	

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
KVK, Bastar	Farm Visit	16	341	Display the improved technologies
KVK, Bastar	Diagnostic Practical's	11	73	Solve the problems in crop production
KVK, Bastar	Distribution of Literature (No.)	21	341	Production technology
KVK, Bastar	Distribution of Seed (q)	3	36	Improved variety of vegetables and Finger millet
KVK, Bastar	Distribution of Planting materials (No.)	150	75	Wilt resistant variety of Tomato chilli
KVK, Bastar	Bio Product distribution (Kg)	0	0	
KVK, Bastar	Bio Fertilizers (q)	1	3	Vermi compost
KVK, Bastar	Distribution of fingerlings	500	19	Pangas 5000 Nos.
KVK, Bastar	Distribution of Livestock specimen (No.)	0	0	
KVK, Bastar	Total number of farmers visited the technology week	6	178	
KVK, Bastar	Animal health camp	1	44	Foot and mouth dieses
KVK, Bastar	Awareness programme	4	179	Swachtta and weed management program
KVK, Bastar	Cashless Transaction Week	2	25	benefits
KVK, Bastar	Celebration of important days (Parthenium eradication week, Soil Health Day,International Women Day,National Integrity Day,World environment day,World forestry day,World Water Day)	5	251	Parthenium, womens day, agriculture womens day
KVK, Bastar	Demonstration	2	136	Demonstration of different field crop
KVK, Bastar	Exposure visit	4	148	Rashtriya kisan mela and exhibition
KVK, Bastar	Extension activity	8	325	
KVK, Bastar	Ex-trainees Meet	2	46	
KVK, Bastar	Farmer scientist interaction	6	312	To interact field and research based knowledge
KVK, Bastar	Farmers Training	15	581	Different crop production and management
KVK, Bastar	Field Day	8	267	Line sowing ,seed production
KVK, Bastar	Field visit	52	118	To observing FLD OFT and
KVK, Bastar	Gajarghans Unmulan Pakhwada	2	75	Eradication
KVK, Bastar	Group Meeting	4	258	Planning and implementation of different project
KVK, Bastar	Hindi diwas pakhwada	1	52	

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
KVK, Bastar	Jai Kisan Jai Vigyan Sangoshthi	2	118	Food security relates to research
KVK, Bastar	Narmada sewa Yatra	0	0	
KVK, Bastar	News Paper/Mass Media	21	Mass	Activities of kvk
KVK, Bastar	Plant health camp	3	65	
KVK, Bastar	Plant Protection Week	1	57	
KVK, Bastar	Scientists visits in farmers field	46	245	To observing FLD OFT and
KVK, Bastar	Seed treatment campaign	7	137	Pulses seed treatment
KVK, Bastar	Self Help Group convener meet	01	30	
KVK, Bastar	Soil health Camp	2	69	
KVK, Bastar	Swachha Bharat Abhiyan	8	187	
KVK, Bastar	Technology Week	3	90	TOT
KVK, Bastar	Van Mahotsava	1	45	Importance of forest
KVK, Bastar	Others (Pl. Specify)			

34. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries
KVK, Bastar	Finger millets (Indira Ragi-1)	12	30
KVK, Bastar	Indira Kodo-1	08	20

Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries
KVK, Bastar	Rice Var. Sahbhagi	12	30
KVK, Bastar	Maize (Highcell)	10	37

Farmers-scientists interaction on livestock management

Name of KVK	Livestock components	Number of interactions	No. of participants
KVK, Bastar	Cattles	1	32
KVK, Bastar	Poultry	1	25
KVK, Bastar	Fish	2	58
KVK, Bastar	Duck	2	67

Animal health camps organized

Name of KVK	Number of camps	No. of animals	No. of farmers
KVK, Bastar	1	24	49

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
Seedlings				
KVK, Bastar	Mango	2700	07	39
KVK, Bastar	Chilli	175000	11.6	12
KVK, Bastar	Brinjal	40000	02	23
KVK, Bastar	Cauliflower	15000	1.5	23
KVK, Bastar	Marigold	100000	01	03
KVK, Bastar	Tomato	60000	04	12
KVK, Bastar	Strawberry	2000	0.1	03

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
KVK, Bastar	Azolla	10	Used as cattle feed	--
KVK, Bastar	Vermicompost	15	02	01
KVK, Bastar	Verms	0.003	-	01

Verms Produced

Name of KVK	Verms Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers
Bastar	13	0.13	0.40	6

Large scale adoption of resource conservation technologies

Name of KVK	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
KVK Bastar	Rice MTU 1010	2.00	05
KVK Bastar	Finger Millet GPU-28	2.00	05
KVK Bastar	Maize Highcell	16.00	40

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
Bastar	45	1275	30	207	03	260	0	0	25	3020	03	115

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

Information about Satellite Village

Name of KVK	Block	Village

1. Activities for Natural Resource Management: -

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

2. Activities for Crop Diversification: -

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

3. Activities for Crop Production

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

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

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

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

8. Extension Activities in Satellite Village

Thematic area	No. of activities	No. of beneficiaries		
		Male	Female	Total

29. Activities performed in Nutri-Smart Village

Information about Nutri-Smart Village

Name of KVK	Block	Village

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						
Nutrition sensitive livestock and fisheries						
Biodiversity for food & nutrition including forest produces/ Minor Millets						
Bio-fortification						
Other (Pl. Specify)						

2. Value Chain And Village Trade related Issue:

Areas	Type of intervention taken (OFT/FLD/Training/ Extension Activity)	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.						
Economic empowerment through sustainable income generation among women.						
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				
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			
Skill development			

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

30. Activities for Sansad Adarsh Gram

Information about Sansad Adarsh Gram

Name of KVK	Block	Village

1. Technologies to be Demonstrated

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

2. Extension Activities

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

3. **Training Programme**

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

35. Activities of NICRA (Only NICRA KVKs)

1. **Technologies to be Demonstrated**

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

2**. Extension Activities in NICRA Village**

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

3. **Training Activities in NICRA Village**

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

4**. Activities for Fodder Bank**

Established (Years)	Capacity	Current Status

5. **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.

Name of KVK	Feedback
Bastar	• Variety of Paddy (Karma masuri and Samleshwari) is performed well and about 35 percent more yield taken by farmers. • Hybrid Maize grain production responds well in farmer's field and they required higher productive Composite variety. • Mosaic resistance variety of Black gram is performed well in field but required more quality seed materials and weedicides in black gram field. • Improve varieties of different crops are produce higher yield and farmers are ready to adopt. • Brinjal variety is more preferring by farmers due to wilt resistant. • Required improve machineries for line sowing/transplanting at custom hiring basis. • Required rainfed based late sown wheat, gram and lentil varieties.

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

37. Case study / Success Story developed –

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

// Case Study of Gladiolus Flower Cultivation //

S. No.	Particulars	Remarks
1.	Title of innovation	Gladiolus Flower cultivation- An Innovative more remunerative enterprise among tribal farmers
2.	Thematic area	Horticulture-Floriculture
3.	Profile of innovator	Shri Sukman Baghel, S/o Shri Lakhmu Baghel, Address- Village & Post- Badechakwa, Bastar, Aadhar number- 343558546641 , Mobile- 9516507247 Age- 50, Education level- Primary, Land holding -5 Acre 
4.	Problem/ challenge addressed	Garjat Hills, Dandakaranya and Eastern Ghats, hot moist sub-humid ESR. High cost of cultivation for vegetables
5.	Description of innovative practice/technology	Cultivation of Gladiolus flower during Rabi season as a main and intercrops with field crops
6.	Practical utility	There are huge market potential of gladiolus and farmers can grow easily as a main crop as well as intercrops with rabi field crops
7.	Source of information	Initiated by KVK and Horticulture department
8.	Economics/Profitability of innovative practice/ technology (costs and return) (per intervention or area or household)	B:C Ratio- 1:3.5 Average Net Return Rs. 5.5 Lac
9.	Potential: Acceptance level, horizontal spread of innovation and number of farmers adopting	There is huge market potential for the flower, climate is very suitable, More remunerative and farmers can cultivate easily. Hence the possibility of acceptability is also very high
10.	Illustrate with high quality photos with caption, graphs	

//Case study of minor millets producer SHG//

SHG Become A Company

1. **Name of company: Bastar KPCL company**
2. **Name of the president: Chaitu Ram Podiyam**
3. **No. farmers in company: 200**
4. **Block covered: 04**
5. **Address:Village- Badekilepal, Block- Bastanar**

Innovation extension approach:

Farmers of Bastar is not only producing minor millets, red rice, scented rice but also involve in value addition of these agricultural commodities with the intervention of the Krishi Vigyan Kendra, Bastar. Krishi Vigyan Kendra approached those farmers who are producing minor millets like *Ragi, Kodo, Kutki*, and scented rice, red rice and sell out it without processing to another consumer in very low price. After that, KVK assess the scope and potential of value addition of these agricultural produce with set of objectives, i.e. to enhance the value of agricultural commodities of the farmers, livelihood empowerment of the farmers, to increase the farmers annual income. With respect of these objectives KVK, Bastar conducted the various OFT, FLD and skill development training programme in processing and value addition technology at farmer's field.

Adoption of the technology and benefit to the farmer:

Inspired by the easy method of these processing and value addition technology farmers gained good value and price of their produces and being exposed to extension intervention made by KVK. Earlier in year 2014-15 Farmers started processing and value addition of their produce in small scale under SHG. After KVK intervention farmers getting positive result in way of income. That after farmer exclusively involve with SHG in processing and value addition activity, with establishment of Bastar KPCL Producer Company on Oct. 2016. Where now around 200 farmers are members from Darbha, Tokapal, Bastanar and Lohandiguda Blocks of Bastar district. Among 200 farmers, 140 farmers belong to ST and 60 farmers belong to OBC community. These farmers use their own farm produce and also collect raw material of different agricultural commodities from different villages of district from other farmers, as per demand and requirement and do processing and value addition through different processing machine provided by different scheme of the KVK, Bastar, Shahid Gundadhur College of Agriculture and Research Station and Department of Agriculture. Earlier farmer was getting very low price of their produce before intervention of the processing and value addition technology now they are getting 2-3 times more price after adoption of this technology and intervention of KVK. At present minor millet- *Ragi, Kodo, Kutki* and Red rice, Scented rice are using for processing purpose and composite floor, Ragi malt powder are producing as value added product. Selling of these different products is done in retail and whole sole mode with the help of different market link of the Bastar district.

Farmers reaction and feedback:

As farmers/members of the Bastar KPCL Producer Company is getting more value or price of the different agricultural commodities with successfully production of processed and value-added agricultural product, filling happy and satisfied with this processing and value addition technology. Now they are extending their production capacity by increasing investment in this business with improvement in marketing strategy.

Extent of diffusion effect of the newly adopted technology:

The net profit in production of processed and value-added products has attracted the other farmers, farmers group, farm women, and SHG of the district. KVK Bastar also helps to facilitate the other attracted farmers, SHG for the enhancing value-added products.

Follow-up-action:

KVK, Bastar has documented the success and has developed plan to promote this technology. KVK has planned for further expansion of technology in Bastar. Processed and value-added commodity production model is being replicating into the different operational villages of KVK for livelihood improvement under micro enterprises.

Economics of the intervantion:

S. No.	Before KVK intervention			After KVK intervention		
	Un-processed added Commodity	Demand/Q/Year	Price/Kg	Processed/ value added Commodity	Demand/Q/Year	Price/Kg
01	Kodo	03	18.00	Kodo	144	80.00
02	Kutki	02	20.00	Kutki	120	70.00
03	Red Rice	02	55.00	Red Rice	96	80.00
04	Scented Rice	03	55.00	Scented Rice	120	80.00
05	Malt	00	00	Malt	04	110.00
06	Composite flour (Ragi based)	01	23.00	Composite flour (Ragi based)	04	55.00
07	Pulse	03	60.00	Pulse	05	110.00

Demonstration of Improved Processing Technology for Value Addition of Finger Millet (Ragi) into Multigrain Flour

Success Story

1. **Name of KVK : ** Bastar
2. **A. Farmers Name & Address:** Shri Shri Damu Ram Kachh
   B. GPS Coordinate (Latitude & Longitude): 19.037163, 81.914535
   Name of crop & variety: Green gram & Hum-16
3. **Background Information:** Age- 53, Education-B.A. Area- 4.75 acre (Irrigated), Crop grown- Rice, Maize, Vegetables, Black Gram, Green Gram, Wheat etc. Assets- Tube well, Tractor, Cultivator, Net Income- 4 Lakh, Family Members- 5
4. **Technology Demonstrated:** HUM-16 , HUM-12 + Seed treatment with Carbendazim @ 2 g/kg seed, Line sowing with Seed cum fertilizer drill, Pre-emergence application of Pendimethlin and Post-emergence application Imazethapyr 10 % SL, Use of yellow sticky trap for insect control.
5. **Institutional Involvement:** nil
6. **Success Point:** Due to Boldest Grain variety having the minimum duration of maturity (55 DAS) and resistant to MVMV, Farmers were convinced.
7. **Important parameters:** (like seeds/pod, pods/plants, water saving, nutrient saving, labour saving, energy saving etc.,):

Details	**Findings/results**	
	Weed Management	**Local/control**
pods /plant	43	29.58
Plant population	46	74
seeds/pod	7	5.5
No. of branches plant-1	4.9	3.6

1. **Outcome :**

Practice used	**Total cost of Cultivation**	**Gross Income**	**Net Income**	**Cost benefit Ration**	**% Increase**

Weed Management	15400.00	60000.00	44600.00	3.9	23.50
Local/control	16688.00	52800.00	36112.00	3.16	

2. Quality Photographs:

Success Story

Performance of technology vis-à-vis Local check (Increase in productivity and returns)

Name of KVK	Bastar
Crop and Variety	Niger & JNC-9
Name of farmer & Address	MUKESH KUMAR KARMA & KILEPAL PEDAPARA BLOCK- BASTANAR
Background information about farmer field	Age- 21 year, Education- 10th, Land Holding- 10 acre (Rainfed), Crop grown- Niger, Paddy, Millets, Net income- 3 to 3.5 lakh
Details of technology demonstrated	**Improved variety+ Seed Treatment with Carbendazim, PSB Culture@ 10 g/kg+ hand weeding at 15-20 DAS**
Institutional Involvement	nil
Success Point	**SEED Treatment and Weeding increase yield of crop.**
Farmer Feedback	**Farmers convinced with the technology because of increase in seed yield.**
Outcome Yield (q/ha) Demonstration Potential yield of variety/technology District average (Previous year) State average (Previous year)	 5.6 7.0 4.9 1.61

Specific Technology	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	4.9	10447	24500	14053	2.345
Demonstration	5.6	11068	28000	16932	2.5299
% Increase	14.286				



Results of OFTs Extension Scientists (2018-19) – KVK Bastar

OFT 1.

Title	**Assessment of Performance of Custom Hiring Centers in Bastar district**
Season & Year	***Kharif* (2018-19)**
Problem	**Unavailability of farm labour at proper time, poor financial status of the farmers.**
Thematic Area	**Farm Mechanization**
Name of Technology	**Custom hiring center**
Source of Technology (Year)	**-**
Farmers Practice (T_1)	**Practicing Agriculture without Farm machinery**
Assessed Rec. Practice (T_2)	**Practicing Agriculture, Mechanized through CHC**
Refined practice, if Any (T_3)	**-**
Variety	**-**
No. of Trials (Replication)	**16**
Parameter*	Data on the parameter
No. of CHCs and active CHC in the district	**62.50 %**
No. of Village covered	**Average 5.56 village**
No. of machinery available	**Total - 124**
Working hours of Implements (hiring basis)	**935.11 Hrs/CHC**
Utilization pattern of farm machinery	**Thresher + Tractor - 16**
Record keeping	**81.25 % (13)**
Hiring rates of machineries	**Average 1000 Rs/hrs**
Annual income from CHCs	
Number of farmers benefited	**236**
Performance of CHC	**Low performing CHCs (Net returns<Rs.80000) – 4 (25%)** **Medium performing CHCs (Net returns between Rs.80001 to Rs. 100000) – 10 (62.50%)** High performing CHCs (Net returns> 100001) – 2 (12.5%)

OFT 2.

Title	**Assessment of Tamarind Producers Groups in Primary Processing and Marketing**
Season & Year	*Rabi* **2018-19**
Problem	**Low price realize due to un organised market and selling of ungraded, unprocessed tamarind**
Thematic Area	**Agricultural Marketing**
Name of Technology	**Group Approach**
Source of Technology (Year)	**IGKV Raipur (2015)**
Farmers Practice (T_1)	**Farmers sale tamarinds without processing and grading in the un-organised market**
Assessed Rec. Practice (T_2)	**Capacity building and Group marketing in organised market**
Refined practice, if Any (T_3)	**-**
Variety/Crop	**Tamarind**
No. of Trials (Replication)	**5 Groups (50 Farmers – Purposively sampling)**
Parameter*	Data on the parameter
Market availability	**In regulated markets – 32** (64%)
Net profit	**Channel-I** – Rs. 3250 **Channel-II** – Rs. 3560 **Channel-III**– Rs. 3440 **Channel-IV** – Rs. 3862
Primary processing of Tamarind	**De-shelling/ De-hulling** – 50 (100%) **Removal of fiber – 45** (90%) **Deseeding – 27** (54%)
Marketing Channel	**Channels – I (Producer → Consumer)**
	Channels – II (Producer → APMC)
	Channels – III (Producer → Village trader → Retailer → Consumer)
	Channels–IV (Producer→ Village trader → Wholesaler → Retailer → Consumer) 35 (70.00%)

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