ANNUAL PROGRESS REPORT

January 2019 to December 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), Black gram (not use Urd), Green gram (not use Moong/Moong bean), 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 Lady finger).
    Fruits: - Mango, Guava, Custard apple, Pear etc.
    Spices: - Black Peeper, Turmeric, Ginger, Cardamom etc.

REPORTING PERIOD – January 2019 to December 2019

Summary of KVK Annual Report (Quantifiable Achievement) for the year 2019

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
1	**On Farm Testing**			
	Proposed OFT	**11**		33
	On Going OFT	**2**		2
	Technologies assessed (Completed OFT)	**9**		31
	Technologies refined	**0**		0
	On farm trials conducted	**11**		33
2	**Frontline demonstrations**			
	Proposed Frontline demonstrations	13		215
	On Going Frontline demonstrations	3		72
	FLDs conducted on crops	6		107
	Area under crops (ha.)	72.4		179
	FLD on farm implement and tools	2		10
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	0		0
	FLD on Fisheries - Finger lings	2		10
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)	0		0
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	0		0
3	**Training programmes**	**No. of Course**	**Duration (days)**	**Participants**
	Farmers	96	51	4034
	Farm women	14	5	444
	Rural youth	17	15	762
	Extension personnel/ In service	6	4	159
	Vocational trainings	4	22	194
	Sponsored Training	9	55	737
	Total	146	152	6330
		No. of programmes	**Participants**	
4	**Extension Programmes**	363		17367
5	**Production of technology inputs etc**	**Qty**	**Beneficiaries (nos.)**	
	Seed (qt.)	113.2		38
	Planting material produced (nos.)	264500		115
6	**Livestock**	**Qty**	**Beneficiaries (nos.)**	
	Livestock strains (Nos)	0		0
	Milk Yield - Cow, Buffelo etc. (in liter)	2853		17
	Fish (Kg.)	0		0
	Fingerlings (nos.)	123000		45
	Poultry-Eggs (nos.)	0		0
	Ducks (nos.)	0		0
	Chicks etc. (nos.)	600		325
7	**Bio Products**	**Qty**	**Beneficiaries (nos.)**	
	Bio Agents -Earth worm (Kg.)	16		6
	Trichoderma (kg.)	150		15
	Bio Fertilizers- Vermi compost, Rhizobium, PSB , BGA , Mycorriza , Azotobacter , Azospirillum etc.	200		2

	(Kg.)		
	Bio Pesticide-Panchgavya, Neem Extract , Neem oil etc.(lit.)	0	0
8	**Any other significant achievement in the Zone**	**Nos.**	**Participants/ beneficiaries**
	Award (Best KVK award and scientist and farmer's award)	7	7
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)	34	Mass
	KVK News letter	4	2000
	SAC Meetings conducted	2	50
	Soil sample tested	71	71
	Water sample tested	0	0
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)	2	127
	KVK-KMA (Message and beneficiaries)	38	25225
	Convergence programmes	4	148
	Sponsored programmes	9	737
	KVK Progressive Farmers interaction	4	15
	No. of Technology Week Celebrations	3	239
	Attended HRD activities organized by ZPD	3	8
	Attended HRD activities organized by DES	4	5
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc.)	2	2
9	Current status of Revolving Funds (Amt. in Rs.)		42658.00
			71691.00
10		**No. of blocks**	**No. of villages**
	Outreach of KVK in the District	7	210
11		**ICAR**	**SAU** / **Others**
	No. of important visitors to KVK (nos.)	1	34 / 62
12		**Working (Yes/No)**	**No. of Update**
	Status of KVK Website	Yes	24
13		**Application received**	**Application disposed**
	Status of RTI (nos.)	4	4
14		**Query received**	**Query dissolved**
	Citizen Charter (nos.)	0	0
15		**Filled**	**Vacant**
	Staff Position	13	3
16	Workshop/ Seminar/ Conference attended by staff of KVK (nos)	5	
17	Publication received from ICAR /other organization (nos.)	16	
18		**Particulars**	**Organization**
	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)	1	4
19	Activities performed in Sansad Adarsh Gram	**Nos. of Activities**	**Participants/ beneficiaries**
		0	0
20	Current status of Contingency (Amt. in Rs.)	272516.00	

1. GENERAL INFORMATION

1.1. Staff Position (as on 31.12.2019)

Summary of Staff position in KVKs on December, 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
KVK, Bastar	16	1	1	6	6	3	3	6	3	16	13

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specialization	Pay scale	Present pay	Date of joining	Category
KVK, Bastar	Sr. Scientist & Head	Dr. Santosh Kumar Nag	Agricultural Economics	Ph.D.	Agricultural Economics	37400-67000 + 9000 GP	37400-67000 + 9000 GP	26.03.2019	ST
KVK, Bastar	SMS/ Scientist 1	Er. Rahul Sahu	Agricultural Engineering	M. Tech.	Agricultural Processing & Food Engineering	15600-39100 + 5400 GP	20440 + 5400 GP	06.09.2012	OBC
KVK, Bastar	SMS/ Scientist 2	Sh. Toshan Kumar Thakur	Fisheries	M.F.Sc.	Fisheries	15600-39100 + 5400 GP	20440 + 5400 GP	07.09.2012	ST
KVK, Bastar	SMS/ Scientist 3	Sh. Lekh Ram Verma	Agricultural Extension	M.Sc.	Agricultural Extension	15600-39100 + 5400 GP	18950 + 5400 GP	25.09.2014	OBC
KVK, Bastar	SMS/ Scientist 4	Smt. Swati Thakur Mirjha	Agronomy	M.Sc.	Agronomy	15600-39100 + 5400 GP	18950 + 5400 GP	01.10.2014	ST
KVK, Bastar	SMS/ Scientist 5	Sh. Sushil Kumar Kashyap	Horticulture	M.Sc.	Horticulture	15600-39100 + 5400 GP	15600 + 5400 GP	06.10.2018	ST

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specialization	Pay scale	Present pay	Date of joining	Category
KVK, Bastar	SMS/ Scientist 6	Sh. Dharmpal Kerketta	Entomology	M.Sc.	Entomology	15600-39100 + 5400 GP	15600 + 5400 GP	10.10.2018	ST
KVK, Bastar	Programme Assistant	Smt. Ritika Samrath	Plant Pathology	M.Sc.	Plant Pathology	9300-34800 + 4200 GP	9300 + 4200 GP	20.11.2019	GEN
KVK, Bastar	Farm Manager	Sh. Dushyant Pandey	Agronomy	M.Sc.	Agronomy	9300-34800 + 4200 GP	12430 + 4200 GP	17.09.2012	GEN
KVK, Bastar	Computer Programmer	Sh. Kamal Kumar Dhruw	Information Technology	B.E.	Information Technology	9300-34800 + 4200 GP	9300 + 4200 GP	31.10.2019	ST
KVK, Bastar	Accountant / superintendent	Vacant							
KVK, Bastar	Stenographer	Vacant							
KVK, Bastar	Driver	Sh. Sanat Kumar Uike	Driver	ITI	ITI	5200-20200 + 1900 GP	8640 + 1900 GP	29.04.2008	SC
KVK, Bastar	Driver	Vacant							
KVK, Bastar	Supporting staff, if any	Sh. Rohanu	Messenger	Primary	Primary	4750-7440 + 1300 GP	7670 + 1300 GP	02.02.2007	SC
KVK, Bastar	Supporting staff, if any	Sh. Puranchand	Messenger	Middle School	Middle School	4750-7440 + 1300 GP	7140 + 1300 GP	16.09.2008	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	Elephant 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

KVK Name	Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
KVK, Bastar	Bade Chakwa	2009-10	Bastar	42	688	105
KVK, Bastar	Kodenar	2010-11	Bastanar	52	1022	417
KVK, Bastar	Badekilepal	2010-11	Bastanar	57	1687	619
KVK, Bastar	Palanar	2010-11	Bastanar	67	308	97
KVK, Bastar	Irpa	2010-11	Bastanar	63	417	157
KVK, Bastar	Dhurguda	2011-12	Jagdalpur	16	1200	362
KVK, Bastar	Tarapur	2012-13	Bakawand	25	1700	465
KVK, Bastar	Balikonta	2014-15	Jagdalpur	15	1300	475
KVK, Bastar	Bakawand	2014-15	Bakawand	25	1214	365
KVK, Bastar	Jhartarai	2015-16	Bastar	36	950	158
KVK, Bastar	Madhota	2015-16	Bastar	39	650	248
KVK, Bastar	Badlawand	2016-17	Bakawand	41	845	298
KVK, Bastar	Badedharoor	2016-17	Lohandiguda	35	656	183
KVK, Bastar	Turangur	2016-17	Bastanar	65	1800	445
KVK, Bastar	Ghatkawali	2018-19	Bastar	15	429	337
KVK, Bastar	Parpa	2018-19	Jagdalpur	16	516	345
KVK, Bastar	Nadisagar	2018-19	Bastar	35	621	489
KVK, Bastar	Ransargipal	2019-20	Tokapal	27	324	179
KVK, Bastar	Keshapur	2019-20	Darbha	35	259	221
KVK, Bastar	Retawand	2019-20	Bastar	45	176	143

1.4. THRUST AREAS identified by KVK

KVK Name	THRUST AREA
KVK, 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.
KVK, Bastar	Enhancement of productivity of horticultural crops by introduction of HYV and other scientific management practices.
KVK, Bastar	Mechanization through introduction of improved implements in agriculture.
KVK, Bastar	Empowerment of women through various women-based income generating activities.
KVK, Bastar	Income generation through value addition of crops & forest produce.
KVK, Bastar	Improve living standards of rural tribal people through Sanitation, health hygiene and balanced diet.
KVK, Bastar	Promotion rural youth for self-employment and development of IFS model.
KVK, Bastar	Promote fruit and vegetable area and cropping intensity in the district.
KVK, Bastar	Processing and value addition of locally available non timber forest produce and minor millets.

1.5. PROBLEM IDENTIFIED by KVK

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
KVK, 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	Village - Ghotiya, Belar, Kumhli, Usaribeda, Block – Lohandiguda
KVK, Bastar	Imbalance use of fertilizer	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Village – Retawand, Block – Bastar, Village – Ransargipal, Koypal, Block – Tokapal
KVK, Bastar	Timely unavailability quality seeds	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Village – Muli, Barda, Karpawand, Tarapur, Kolawal, Block – Bakawand
KVK, 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	Village – Nadi Sagar, Madhota, Badechakwa, Jhartarai Block – Bastar
KVK, Bastar	Lack of irrigation facilities	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Village – Kondaloor, Singhanpur Block – Tokapal

KVK, Bastar	Open Grazing during Rabi season	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Village – Palli, Kumharawand, Titirgaon, Dharmaur Block – Jagdalpur
KVK, Bastar	Lack of technical knowledge	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Village – Tirthum, Bade Kilepal, Dubey Umargaon, Balenga, Karpawand, Pathri Block – Jagdalpur, Bastar, Bastanar
KVK, 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	Village – Bade Kilepal, Tirthum, Silakjhodi, Irpa, Goriyapal, Block – Bastanar
KVK, Bastar	Heavy Soil and water erosion	Through PRA tools and Discussion with the group of farmers, farm women and rural youth, farmers/villagers meeting	Village – Batkonta, Jamgaon, Paralmeta, Turangur, Kodenar 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, No of Siliquae/plant, No. of Grain / pod
Integrated Farming system	Rhizome wt/Plant(g)
Integrated Disease Management	Disease incidence (%)
Integrated Nutrient Management	No of effective tillers/hill
Integrated Weed Management	No of weeds/m2
Varietal Evaluation	Plant Height (cm), No of pods/plant, No of Siliquae/plant, No. of Grain / pod, Fruit wt(g)
Integrated Pest Management	Insect Infestation (%), No. of Larvae or insect/meter row length
Integrated Plant Nutrient Management	No of pods/plant, No of Siliquae/plant, No. of Grain/pod, Fruit Length(cm), Fruit wt (g), No of nodules/plant
Feed and Fodder Production	Fruit Length (cm)
Resource conservation Technology	Plant Height (cm),
Soil Fertility Management	No of Cobs/plant
	No of Larvae/m^2
	No of Panicles/m^2
	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 6 months (kg/goat)**
	Parasite infestation (%)
	Live weight (kg/bird) at 3 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 Information about OFT:

Title of on-farm trial:	Assessment of sowing method on Finger millet
Year/Season:	2019/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low Productivity
Thematic area:	Integrated Crop Management
No of trials:	3
No. of farmers involved	3
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers Practice (Broadcasting of finger millet)
T2 –Recommended Practice-	Line sowing at spacing of 25 cm x 10 cm row to row and plant to plant/Indira Ragi
T3- Recommended Practice-	Transplanting at spacing of 25 cm x 10 cm row to row and plant to plant /Indira Ragi
Date of sowing:	7/06/2019 to 17/06/2019
Date of harvesting:	3/10/2019 to 15/10/2019
Source of technology:	IGKV, Raipur
Characteristics of technology:	Maintenance of optimum plant population is an important prerequisite for getting higher yield under rainfed conditions. Planting method has significant effect on Panicle number per plant.
Name of Crop/Enterprises:	Finger millet
Recommendations for Farmers	Transplanting at spacing of 25 cm x 10 cm row to row and plant to plant is recommended
Recommendations for Deptt. Personnel	Promote Finger millet Cultivation in Upland area in place of Paddy i.e., Crop Diversification.
Feedback	Farmers appreciated technology as it increases their crop yield.

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter (Yield)	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	5.5	q/ha	8790.00	19250.00	10460.00	2.19
T2(Recommended Practice)	7.8	q/ha	11780.00	27300.00	15520.00	2.32
T3(Recommended Practice)	11.62	q/ha	14780.00	40670.00	25890.00	2.75

Title of on-farm trial:	Assessment of Rice Variety RRF-105
Year/Season:	2019/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Rice
Thematic area:	Varietal Evaluation
No of trials:	3
No. of farmers involved	3
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Beushening (biasi) with no Trichoderma Treatment
T2 –Recommended Practice-	DSR Seder + R 105 rice variety + Trichoderma with Herbicide
T3- Recommended Practice-	--
Date of sowing:	10/06/2019 to 14/06/2019
Date of harvesting:	10/10/2019 to 16/10/2019
Source of technology:	IGKV, Raipur
Characteristics of technology:	R-RF-105 HIGH YIELDING VARIETY, R-RF-105 IS REPLACEMENT FOR MTU-1010
Name of Crop/Enterprises:	RICE
Recommendations for Farmers	DSR Seder + R-RF- 105 rice variety + Trichoderma with Herbicide is recommended
Recommendations for Deptt. Personnel	Promote R-RF-105 as Replacement of MTU-1010
Feedback	Farmers appreciated technology as it increases their crop yield.

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter (Yield)	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	21.0	q/ha	21325.0	38115.0	16790.0	1.79
T2(Recommended Practice)	39.4	q/ha	25975.0	71511.0	45536.0	2.75
T3(Recommended Practice)	--	--	--	--	--	--

Title of on-farm trial:	Assessment of Maize Legume Intercropping
Year/Season:	2019/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Soil depletion and weed infestation in the unutilized wide space between the maize crops resulting in poor yield
Thematic area:	Crop management
No of trials:	3
No. of farmers involved	3
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sole cropping of maize
T2 –Recommended Practice-	Maize + Cowpea intra row cropping (Maize holes alternating with those of cowpea)
T3- Recommended Practice-	Maize + Cowpea inter row cropping (a line of maize alternating with a cowpea line)
Date of sowing:	08/07/2019 to 12/07/2019
Date of harvesting:	21/10/2019 to 12/11/2019
Source of technology:	IGKV, Raipur
Characteristics of technology:	Intercropping systems could be an eco-friendly approach for reducing weed problems through non-chemical methods. Mixtures of cereals and legumes produce higher grain yields than either crop grown alone.
Name of Crop/Enterprises:	Maize-Cowpea
Recommendations for Farmers	Maize + Cowpea inter row cropping (a line of maize alternating with a cowpea line) is recommended
Recommendations for Deptt. Personnel	Promote intercropping of cereals with legumes
Feedback	Farmers appreciated technology as it increases their net returns.

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter (Yield)	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	29.4	q/ha	23825.00	51744.0	27919.0	2.17
T2(Recommended Practice)	28.4(Maize), 23.11(Cowpea green pods)	q/ha	32225.00	73094.0	40869.0	2.27
T3(Recommended Practice)	27.5(Maize), 40.31(Cowpea green pods)	q/ha	37926.0	88710.0	49784.0	2.34

Title of on-farm trial:	Assessment of management of fall Armyworm (Spodoptera frugiperda) in kharif maize
Year/Season:	Kharif/2019
Farming situation:	Rainfed
Problem diagnosis:	Maize crop is infested by newly identified pest fall army worm in Bastar
Thematic area:	Integrated Pest Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of Phorate @ 10 kg/ha, in whorl
T2 –Recommended Practice-	Use of light trap @ 2/acre, Use of Profenophos 40 EC + Cypermethrin 4 EC @ 300-400 ml/acre, two spray
T3- Recommended Practice-	Use of pheromone trap @ 10/acre, use of Chlorantreniliprole18.5 SL @ 60 ml/acre, two spray
Date of sowing:	15/06/2019 to 18/06/2019
Date of harvesting:	12/10/2019 to 15/10/2019
Source of technology:	IGKV, Raipur
Characteristics of technology:	Line sowing of maize crop. Introduction of new pesticide for control of FAW. Management techniques are eco-friendly.
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	Use of pheromone trap @ 10/acre, use of Chlorantreniliprole18.5 SL @ 60 ml/acre
Recommendations for Deptt. Personnel	Use of pheromone trap @ 10/acre, use of Chlorantreniliprole18.5 SL @ 60 ml/acre
Feedback	Farmers were convinced and willing to adopt the technology

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter (Yield)	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Infestation % per 5 sqm	Infestation %	12100.00	45390.00	33290.00	3.75
T2(Recommended Practice)	Infestation % per 5 sqm	Infestation %	14300.00	61880.00	47580.00	4.32
T3(Recommended Practice)	Infestation % per 5 sqm	Infestation %	14300.00	66640.00	52340.00	4.66

Title of on-farm trial:	Assessment of Chemical Control of fruit and shoot borer in Brinjal
Year/Season:	Rabi/2019
Farming situation:	Irrigated
Problem diagnosis:	Low Yield due to severe infestation of shoot and fruit borer
Thematic area:	Integrated Pest Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Chlorpyriphos @ 300-400 ml/ acre.
T2 –Recommended Practice-	Use of Pheromone trap @ 10/acre Use of Chlorantreniliprole18.5 SL @ 60 ml/acre
T3- Recommended Practice-	--
Date of sowing:	10/10/2019 to 15/10/2019
Date of harvesting:	15/12/2019 to 20/01/2020
Source of technology:	IGKV, Raipur
Characteristics of technology:	Line transplanting of brinjal seedlings.
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	T-2 Use of Pheromone trap @ 10/acre, Use of Chlorantreniliprole18.5 SL @ 60 ml/acre
Recommendations for Deptt. Personnel	T-2 Use of Pheromone trap @ 10/acre, Use of Chlorantreniliprole18.5 SL @ 60 ml/acre
Feedback	Farmers were convinced and willing to adopt the technology

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter (Yield)	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Damage	%/sqm	46200.00	131400.00	85200.00	2.84
T2(Recommended Practice)	Damage	%/sqm	52700.00	186300.00	133600.00	3.54
T3(Recommended Practice)	--	--	--	--	--	--

Title of on-farm trial:	Assessment of 8 row paddy drum seeder
Year/Season:	2019-20/Kharif
Farming situation:	Semi irrigated
Problem diagnosis:	Poor yield and high seed rate due to farmer's practice of broadcasting method of rice sowing
Thematic area:	Farm Mechanization
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/refinement:	
T1 – Farmers Practice-	Broadcasting method of rice sowing
T2 – Recommended Practice-	Sowing of sprouted paddy seeds using 8 row paddy drum seeder
T3 - Recommended Practice-	--
Date of sowing:	08/07/2019
Date of harvesting:	08/11/2019
Source of technology:	TNAU, Tamilnadu
Characteristics of technology:	Pregerminated paddy seeds are directly sown in puddled field by the 8 row paddy drum seeder machine. This technology doesn't require seedling transplanting. It covers 8 rows of 20 cm row-to-row spacing in a single operation.
Name of Crop/Enterprises:	Rice crop
Recommendations for Farmers	Do not use over sprouted/pregerminated paddy seeds. It may block the seed openings of drum seeder. Hence, uneven dropping of seeds may occur.
Recommendations for Deptt. Personnel	The use of manually operated 8-row drum seeder is effective for line sowing of sprouted paddy. It reduces the cost of cultivation by saving in seed rate. Hence the technology is recommended for rice sowing as an improved method of the Lehi system.
Feedback	Easy for line sowing of rice and reduces cost of cultivation.

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Yield	q/ha	25085.00	47340.00	22255.00	1.89
T2(Recommended Practice)	Yield	q/ha	22010.00	56700.00	34690.00	2.58
T3(Recommended Practice)	--	--	--	--	--	--

Title of on-farm trial:	Assessment of processing technology for value addition of tamarind (candy preparation)
Year/Season:	2019-20/Kharif
Farming situation:	--
Problem diagnosis:	Low price of tamarind due to direct selling it after deseeding in brick form
Thematic area:	Post-Harvest Management
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/refinement:	
T1 – Farmers Practice-	Direct selling of deseeded tamarind in brick form
T2 – Recommended Practice-	Value addition in form of tamarind candy
T3 - Recommended Practice-	--
Date of sowing:	--
Date of harvesting:	--
Source of technology:	IGKV, Raipur
Characteristics of technology:	Processing and value addition of tamarind in the form of sweet spiced tamarind candy.
Name of Crop/Enterprises:	Tamarind
Recommendations for Farmers	Post-harvest management of tamarind i.e. processing and value addition in the form of sweet spiced tamarind candy is effective for fetching higher price as compared to processed product of tamarind brick, hence the technology is recommended for processing of tamarind into tamarind candy.
Recommendations for Deptt. Personnel	Post-harvest management practices *viz.* processing and value addition fetch higher prices compared to selling out the products in the raw form. Hence the technology is recommended.
Feedback	Farmers are ready to use of technology as an income generation activity as it fetches higher price.

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of Processing (Rs/q)	Average Gross Return (Rs/q)	Average Net Return (Rs/q)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Processed product price	Rs/q	3450.00	4000.00	550.00	1.16
T2(Recommended Practice)	Processed product price	Rs/q	13530.00	19800.00	6270.00	1.46
T3(Recommended Practice)	--	--	--	--	--	--

Title of on-farm trial:	Assessment of paddle operated mahua stamen removal machine
Year/Season:	2019-20/Summer
Farming situation:	--
Problem diagnosis:	Less removal efficiency of stamen when beating with bamboo
Thematic area:	Post-Harvest Management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/refinement:	
T1 – Farmers Practice-	Beating of dried mahua flower with bamboo stick
T2 – Recommended Practice-	Stamen removal using paddle operated mahua stamen removal machine
T3 - Recommended Practice-	--
Date of sowing:	--
Date of harvesting:	--
Source of technology:	OUAT, Bhubaneswar
Characteristics of technology:	Removal of stamen from dried mahua flowers by paddle operated mahua stamen removal machine.
Name of Crop/Enterprises:	Mahua flowers
Recommendations for Farmers	Removal of stamen from dried mahua flowers by beating with bamboo requires spadework also it takes around more than 2 hours to process it. Paddle operated mahua stamen removal machine is of low cost and can process 20 kg of dried mahua flowers in a single hour of operation.
Recommendations for Deptt. Personnel	Low-cost paddle operated mahua stamen removal machine is suitable for forest dwellers who are involved in mahua flower collection. It reduces drudgery in removing stamen from dried mahua.
Feedback	Mahua collectors are ready to use of technology as it reduces drudgery and saves time.

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of Processing (Rs/q)	Average Gross Return (Rs/q)	Average Net Return (Rs/q)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Cleaning efficiency	%	4340.00	5170.00	830.00	1.19
T2(Recommended Practice)	Cleaning efficiency	%	4340.00	5473.00	1133.00	1.26
T3(Recommended Practice)	--	--	--	--	--	--

Title of on-farm trial:	Assessment of profitability of monosex Tilapia farming in seasonal village pond
Year/Season:	2019-20/ Kharif-Rabi
Farming situation:	Midland & Lowland
Problem diagnosis:	Less fish production in seasonal village pond
Thematic area:	Fish Production and Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farming of carp fishes in seasonal village pond
T2 –Recommended Practice-	Farming of monosex Tilapia in seasonal village pond
T3- Recommended Practice-	--
Date of sowing:	25.07.2019, 30.07-2019, 08.09.2019
Date of harvesting:	Not harvested
Source of technology:	OUAT. College of Fisheries 2009
Characteristics of technology:	Stocking of monosex juvenile Tilapia (male) @10000/ha
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	Monosex Tilapia grow fast & survival percentage is more
Recommendations for Deptt. Personnel	Monosex Tilapia seed should be of good quality (only male Tilapia seed should be stocked)
Feedback	--

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Yield	q/ha	Result awaited			
T2(Recommended Practice)	Yield	q/ha	Result awaited			
T3(Recommended Practice)	Yield	q/ha	Result awaited			

Title of on-farm trial:	Assessment of IBA on rooting of marigold cutting under plug tray nursery
Year/Season:	*Kharif* 2019-20
Farming situation:	Irrigated
Problem diagnosis:	Rooted cutting is common propagation method in marigold however, root development is slow or incomplete under open conditions with low humidity and high temperature, the growth of rooted cuttings is slow without IBA treatment hence present OFT is proposed.
Thematic area:	Flower Production
No of trials:	2
No. of farmers involved	2
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Stem cutting without IBA treatment
T2 –Recommended Practice-	Stem cutting treated with IBA 500 ppm
Date of sowing:	June 2019
Date of harvesting:	August 2019
Source of technology:	IGKV, Raipur, Chhattisgarh PDKV, Akola, Maharashtra
Characteristics of technology:	Use of Growth Hormone
Name of Crop/Enterprises:	Marigold
Recommendations for Farmers	Stem cutting treated with IBA Growth Hormone
Recommendations for Deptt. Personnel	Treatment of marigold herbaceous stem cuttings with IBA 500 ppm significantly increases survival of seedlings and have more length of seedling which are preferred by the farmers hence treatment of cuttings with IBA @ 500 ppm is recommended under Bastar conditions.
Feedback	Treatment with IBA significantly increases survival of seedlings and have more length of seedling which are preferred by the farmers.

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Number of seedlings survived after treatment	Numbers	4293.36	6,792.00	2498.64	1.58
T2(Recommended Practice)	Number of seedlings survived after treatment	Numbers	4793.36	10056.00	5262.64	2.10
T3(Recommended Practice)	--	--	--	--	--	--

Title of on-farm trial:	Effect of foliar application of micronutrients in mango
Year/Season:	2019-20
Farming situation:	Irrigated
Problem diagnosis:	Mango is prone to fruit drop in various stages. The size of fruits is also small under low nutrient status with low fruit quality. Foliar application of nutrients like boron, zinc and iron improves fruit set, fruit size and fruit quality in mango.
Thematic area:	Fruit Production
No of trials:	2
No. of farmers involved	2
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Conventional method with no foliar micronutrient spray
T2 –Recommended Practice-	Foliar application of B (0.1 %), Zn (0.1 %) and Fe (0.1%) at flower bud differentiation, fruit set and marble stage.
T3- Recommended Practice-	-
Date of sowing:	05/06/2014
Date of harvesting:	-
Source of technology:	IGKV, Raipur, Chhattisgarh NAU, Navsari
Characteristics of technology:	Nutrient Management
Name of Crop/Enterprises:	Mango
Recommendations for Farmers	Foliar application of B (0.1 %), Zn (0.1 %) and Fe (0.1%) at flower bud differentiation, fruit set and marble stage
Recommendations for Deptt. Personnel	Foliar application of B (0.1 %), Zn (0.1 %) and Fe (0.1%) at flower bud differentiation, fruit set and marble stage
Feedback	--

Result: (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Fruit yield	q/ha	Awaited	Awaited	Awaited	Awaited
T2(Recommended Practice)	Fruit quality	Size, Taste	Awaited	Awaited	Awaited	Awaited
T3(Recommended Practice)	--	--	--	--	--	--

2.2. Information about Extension OFT:

Title	
Season & Year	
Problem identified	
Thematic Area	
Farming situation	
Name of Technology under study	
Farmers Practice	
No. of replication (Farmers)	

Results / findings

Performance indicators/ parameters	Unit/ details

2.3. Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area:	
No of trials:	
No. of farmers/farm women involved	
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	

Farming situation:	
Date of sowing:	
Date of harvesting:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

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

Detail of Technology	Output *	Est. Energy Expenditure kj/min	WHR beat/min	% reduction in drudgery	% increase in efficiency	Cardiac Cost of Work	% Saving of cardiac Cost
T_1(Farmers Practices)							
T_2 (Recommended Practices)							
T_3(Recommended Practices							

***Kindly use Unit as per the machine/implement/equipment used for drudgery reduction**

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

Name of Enterprise: -…….

Detail of Technology	Parameter of enterprise	Production per unit (qt/no/lit)	Average Cost of input (Rs/unit)	Average Gross Return (Rs/unit)	Average Net Return (Rs/unit)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T_1(Farmers Practices)						
T_2 (Recommended Practices)						
T_3(Recommended Practices)						

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

Detail of Technology	Composition of product	Production per unit	Average Cost of input (Rs/unit)	Average Gross Return (Rs/unit)	Average Net Return (Rs/unit)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T_1(Farmers Practices)						
T_2 (Recommended Practices)						
T_3(Recommended Practices						

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

Name of Enterprise /product: -…….

Detail of Technology	Name of Product /enterprise	Per capita Consumption gm/ day	Nutrient Intake (Unit)				Anthropometric measurements		
			Energy (kcal)	Protein (gm)	Iron (mg)	Calcium (mg)	Increase in Weight (Kg)	Increase in Height (cm)	BMI ((Weight (Kg)/ (Height (in m) * Height (in m)))
T_1(Farmers Practices)									
T_2 (Recommended Practices)									
T_3(Recommended Practices									

3. Achievements of Frontline Demonstrations (FLD)

3.1 Details of FLDs on Crop implemented during Jan-2019 to Dec-2019

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop Category	Name of Crop	Name of Variety	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/Ongoing	Crop-Area (ha)	Results (q/ha)		% change	No. of farmers				
											FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
KVK, Bastar	2019	Kharif	Integrated Nutrient Management	Response of tomato to zinc and boron application	Vegetable	Tomato	Swarakcha	Irrigated	Completed	1	100	250	40	0	2	0	0	2
KVK, Bastar	2019	Rabi	Varietal Evaluation	Performance of grafted brinjal	Vegetable	Brinjal	Vaibhav	Irrigated	Completed	1	100	1250	80	0	2	0	0	2
KVK, Bastar	2019	Kharif	Integrated Crop Management	Seed Treatment +Pendimethlin , NPK (18:18:18) application	Oilseed	Niger	JNC-9	Rainfed	Completed	10	4.9	5.7	16.84	0	25	0	0	25
KVK, Bastar	2019	Kharif	Integrated Crop Management	Improved Variety, Seed Treatment, Spray of NPK (18:18:18), Plant Protection by application of Dimethoate 30 EC @ 1.7 ml/liter	Pulse	Horsegram	Indira Kulthi 1	Rainfed	Completed	10	5	5.9	18	0	28	0	0	28

				water and repeat after 15 days														
KVK, Bastar	2019	Kharif	Integrated Crop Management	Improved variety, Seed treatment with Trichoderma harzianum Rhizobium, PSB Culture, spray of Imazethapyr weedicide @ 50 g ai ha-1 on 15 – 20 DAS, Profenophos + Cypermethrin insecticide	Pulse	Black Gram	MASH 479	Rainfed	Completed	10	6.9	9.05	3.16	0	25	0	0	25
KVK, Bastar	2019	Kharif	Integrated Crop Management	Improved Variety, Seed Treatment, Weed Management	Pulse	Green Gram	IPM 02-14	Rainfed	Completed	10	6.3	7.6	20.63	0	25	0	0	25
KVK, Bastar	2019	Rabi	Integrated Crop Management	Improved variety, seed treatment with Trichoderma spp. And rhizobium PSB culture, use of pheromone trap	Pulses	Chick pea	JAKI 9218	Semi-irrigated	Ongoing	10	Awaited	Awaited	Awaited	0	25	0	0	25

KVK, Bastar	2019	Rabi	Integrated Crop Management	Improved variety, line sowing, seed treatment with Trichoderma spp. And rhizobium PSB culture	Pulses	Field pea	Indira Matar	Semi-irrigated	Ongoing	10	Awaited	Awaited	Awaited	0	25	0	0	25
KVK, Bastar	2019	Rabi	Integrated Crop Management	Improved variety, seed treatment with Trichoderma spp. And PSB, Azotobactor culture	Oilseed	Linseed	RLC-92	Semi-irrigated	Ongoing	10	Awaited	Awaited	Awaited	0	22	0	0	22

3.2 Economic Impact of Crop FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	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)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
KVK, Bastar	Response of tomato to zinc and boron application	Vegetable	Yield (q/ha)	100	250	61300	64860	130000	170000	68700	105140	2.12	2.62
KVK, Bastar	Performance of grafted brinjal	Vegetable	Yield (q/ha)	100	1250	54000	105200	112500	275000	58500	169800	2.08	2.61
KVK, Bastar	Seed Treatment +Pendimethalin, NPK (18:18:18) application	Niger	No of Capsules/ plant-	15.1	23.6	9991.0	10791.0	28714.0	33548.5	18723.0	22757.5	2.87	3.11

KVK, Bastar	Improved Variety, Seed Treatment, Spray of NPK (18:18:18), Plant Protection by application of Dimethoate 30 EC @ 1.7 ml/liter water and repeat after 15 days	Horse Gram	No. of Pods/plant	17.4	29.6	8600.0	9600.0	25000.0	29750.0	16400.0	20150.0	2.91	3.1
KVK, Bastar	Improved variety, Seed treatmet with Trichoderma harzianum Rhizobium, PSB Culture, spray of Imazethapyr weedicide @ 50 g ai ha-1 on 15 – 20 DAS, Profenophos + Cypermethrin insecticide	Black Gram	No. of Pods/plant	20.6	31.1	16366.7	19050.0	39330.0	57000.0	22963.3	37950.0	2.40	2.99
KVK, Bastar	Improved Variety, Seed Treatment, Weed Management	Green Gram	No. of Grain/pod	7	10.88	15630.0	17670.0	43942.5	53010.0	28312.5	35340.0	2.8	3.0
KVK, Bastar	Improved variety, seed treatment with Trichoderma spp. And rhizobium PSB culture, use of pheromone trap	Chickpea	Yield (q/ha)	Awaited									

KVK, Bastar	Improved variety, line sowing, seed treatment with Trichoderma spp. And rhizobium PSB culture	Field pea	Yield (q/ha)	Awaited									
KVK, Bastar	Improved variety, seed treatment with Trichoderma spp. And PSB, Azotobactor culture	Linseed	Yield (q/ha)	Awaited									

3.3 Details of FLDs on Agriculture Engineering implemented during Jan-2019 to Dec-2019

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop/ Enterprise Category	Name of Crop/ Enterprise	Name of Variety/Technology / Enterprise	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/Ongoing	Crop-Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
											FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
KVK, Bastar	2019	Kharif	Farm Mechanization	Self-propelled paddy transplanter	Cereal	Rice	MTU-1001	Semi irrigated	Completed	2	37.50	38.10	1.6	0	05	0	0	05
KVK, Bastar	2019	Kharif	Farm Mechanization	Seed-cum-fertilizer drill	Cereal	Rice	Samleshwari	Rainfed	Completed	2	31.20	36.50	16.98	0	05	0	0	05

3.4 Economic Impact of Agriculture Engineering FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	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)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
KVK, Bastar	Self-propelled paddy transplanter	Rice	Yield (q/ha)	37.50	38.10	31837.00	27987.00	67500.00	68580.00	35663.00	40593.00	2.12	2.45
KVK, Bastar	Seed-cum-fertilizer drill	Rice	Yield (q/ha)	31.20	36.50	25085.00	22188.00	56160.00	65700.00	31075.00	43512.00	2.24	2.96

3.5 Details of FLDs on Animal Science implemented during Jan-2019 to Dec-2019

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop/ Enterprise Category	Name of Crop/ Enterprise	Name of Variety/Technology / Enterprise	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/Ongoing	Crop-Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
											FP (T_1)	RP (T_2)		SC	ST	Others	General	Total

3.6 Economic Impact of Animal Science FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	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)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)

3.7 Details of FLDs on Fishery implemented during Jan-2019 to Dec-2019

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop/ Enterprise Category	Name of Crop/ Enterprise	Name of Variety/Technology /	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/Ongoing	Crop-Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
											FP (T_1)	RP (T_2)		SC	ST	Others	General	Total

							Enterprise											
KVK, Bastar	2019-20	Kharif-Rabi	Fish Production & Management	Use of low-cost farm made feed in carp polyculture	Fish	Fish	IMC & EMC	Rainfed & irrigated	Ongoing	05	awaited			0	5	0	0	5
KVK, Bastar	2019-20	Kharif-Rabi	Fish Production & Management	Fish cum duck culture	Fish	Fish	IMC & EMC	Rainfed & Irrigated	Ongoing	05	awaited			0	5	0	0	5

3.8 Economic Impact of fishery 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)**
KVK, Bastar	Use of low-cost farm made feed in carp polyculture	Fish	Yield (q/ha)	awaited									
KVK, Bastar	Fish cum duck culture	Fish	Yield (q/ha)	awaited									

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

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

Economic Performance Home Science FLD: (Drudgery Reduction)

KVK name	Technology demonstrated	Performance Indicator / Parameter													
		Output *		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

*Kindly use Unit as per the machine/implement/equipment used for drudgery reduction

Economic Performance Home Science FLD: (Income Generation)

KVK name	Technology demonstrated	Performance Indicator / Parameter									
		Production per unit (Q/No/Lit)		Average Cost of input (Rs/unit)		Average Gross Return (Rs/unit)		Average Net Return (Rs/unit)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2

Economic Performance Home Science FLD: (For value addition)

KVK name	Technology demonstrated	Performance Indicator / Parameter											
		Composition of product		Production per unit (Q/ Lit)		Average Cost of input (Rs/unit		Average Gross Return (Rs/unit)		Average Net Return (Rs/unit)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2

Economic Performance Home Science FLD: (For Nutritional security)

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

3.10 Training and Extension activities conducted under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
KVK, Bastar	Niger	Training on Package and Practices for cultivation of Niger crop	1	23	
KVK, Bastar	Niger	Training on weed Management in Niger crop	1	16	
KVK, Bastar	Black Gram	Training on Package and Practices for cultivation of Niger crop	1	26	
KVK, Bastar	Green Gram	Training on cultivation practices of green gram	1	19	
KVK, Bastar	Horse Gram	Training on Improved cultivation practices of Horse Gram	1	24	
KVK, Bastar	Rice	Field Day	1	56	
KVK, Bastar	Rice	Training on STCR Rice Crop	1	56	
KVK, Bastar	Fodder	Training on Round the year Fodder Production	4	200	

3.11 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.	KVK, Bastar	Maize	DKC-9117	Firm	06	2.4
2.	KVK, Bastar	Maize	900 M Gold	Firm	10	4

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 labour required.	Paddy transplanter	Saving in cost of cultivation	Many farmers ready to adopt this technology because less no. of labour and time required.
KVK, Bastar	Arka rakshak variety	Triple resistant	Saving in cost of cultivation	Due to high yielding variety as compare to other hybrids farmers ready to grow this variety again in next season.

KVK, Bastar	Use of manually operated 8 row drum seeder is effective for line sowing of sprouted paddy. It reduces the cost of cultivation by saving in seed rate.	8 row paddy drum seeder	Saving in cost of cultivation	Easy for line sowing.
KVK, Bastar	Variety of Paddy (Karma masuri and Samleshwari) is performed well and about 35 percent more yield taken by farmers.	Management of blast & other important disease of Paddy, Yield maximization of Paddy on the basis of STCR.	Midland variety of paddy	Variety of Paddy (Karma masuri and Samleshwari) are suitable for midland situation
KVK, Bastar	Mosaic resistance variety of Black gram is performed well in field but required more quality seed materials and weedicides in black gram field.	TAU-1 resistant against mosaic and high yielding variety	Disease resistant variety	Mosaic resistance variety of Black gram is effective for tolerance against the diseases
KVK, Bastar	Hybrid Maize grain production responds well in farmer's field and they required higher productive Composite variety.	Hi cell high yielding Hybrid varieties are preferred. Nutrient management in Hybrid Maize Production	High yielding variety	Hybrid Maize varieties are suitable for round the year production in Bastar region
KVK, Bastar	Improve varieties of different crops are produce higher yield and farmers are ready to adopt.	Assessment of improved high yielding variety of Kodo Millets (Indira Kodo -1), & blast resistant variety GPU-28 of finger millets	High yielding variety	Improve varieties of minor millets are produce higher yield and farmers are ready to adopt with higher benefits
KVK, Bastar	Composite Fish culture, fish cum duck culture.	Composite fish farming in village ponds, Fish production through supplementary fish feed	High income generation	Fish production is high income enterprises with IFS models
KVK, Bastar	For controlling the fall army worm insect in maize crop, recommended practice is beneficial as compared to farmers practice.	Integrated pest management	Technology awareness to the farmers and income enhancement.	Farmers were convinced and willing to adopt the technology. Recommended practice is more useful to control the pest.
KVK, Bastar	To control the brinjal fruit and shoot borer insect, recommended practice is beneficial as compared to farmers practice.	Chemical control measures	Technology awareness to the farmers and income enhancement.	Farmers were convinced and willing to adopt the technology. Recommended practice is more useful to control the pest.

4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested
KVK, Bastar	Required long self-life of harvested fruits varieties in vegetables (Chilli, Tomato). Multiple resistant varieties of paddy (Blast & stem borer resistant) are required in midland situation. Value addition in fruits and vegetable crops is required. Conserve the germ plasm of scented rice and other local rice variety. Due to poor yield of scented rice decreased the area therefore need the research in yield increase the scented rice. research on wilt resistant variety and post emergence weedicide of chickpea. Granular herbicide application in DSR is needed in pre emergence due to unavailable of water in June.

4.3. 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	12.07.2019 Keshapur, Darbha	46
KVK, Bastar	Farmers	Group discussion – Seeing the performance of mushroom cultivation	26.07.2019 Malgaon, Bakawand	35
KVK, Bastar	Farmers	Field visit- Seeing the Fish production for income and employment generation	13.08.2019 Palli, Jagdalpur	29
KVK, Bastar	Farmers	Group discussion – Seeing the performance of the group vegetable cultivation	18.09.2019 Kondaloor, Tokapal	22
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	18.10.2019 Karpawand, Bakawand	28
KVK, Bastar	Women	Diagnostic field visit - Seeing the performance of the mushroom cultivation & production	28.11.2019 Kaviasna, Jagdalpur	23
KVK, Bastar	Rural youth	Field visit- Seeing the processing & value addition, club formation in the area few rural youths came forward for commercial production & marketing	16.12.2019 Bade Chakwa, Bastar	24
KVK, Bastar	Rural youth	Field visit- Seeing the pulses production	24.12.2019 Tamakoni, Bastar	26

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)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
KVK, Bastar	F&FW	ONC & OFC	**Crop Production**	Weed Management	Training on weed management in rice	3	1	0	0	2	1	93	15	0	0
KVK, Bastar	F&FW	ONC	**Crop Production**	Resource Conservation Technologies	Adoption of resource conservation technology for Kharif crop production	2	1	6	2	8	6	52	18	1	0
KVK, Bastar	F&FW	OFC	**Crop Production**	Cropping Systems	Cropping pattern system for cultivation of Kharif crop	1	1	0	0	10	3	85	10	5	0
KVK, Bastar	F&FW	ONC & OFC	**Crop Production**	Crop Diversification	Promotion of Rice-Chilli cropping system	4	1	7	4	12	8	98	36	9	2
KVK, Bastar	F&FW	ONC	**Crop Production**	Integrated Farming	Training on integrated farming system	2	1	0	0	4	1	61	23	3	0
KVK, Bastar	F	OFC	**Crop Production**	Micro irrigation/irrigation	Cultivation of Rabi crops using drip irrigation system	1	1	0	0	0	0	22	0	0	0
KVK, Bastar	F&FW	ONC	**Crop Production**	Seed production	Seed production technology for Kharif crops	2	1	0	0	2	0	58	16	2	0
KVK, Bastar	F&FW	ONC	**Crop Production**	Nursery management	Nursery rising techniques for paddy transplanter machine	6	1	12	4	8	0	139	44	4	2
KVK, Bastar	F&FW	ONC	**Crop Production**	Integrated Crop Management	Kharif crop production technology	5	1	1	0	4	0	133	28	3	1
KVK, Bastar	F&FW	ONC	**Crop Production**	Integrated Crop Management	Training on package practices of linseed crop	1	1	5	0	0	0	45	2	0	0
KVK, Bastar	F&FW	ONC & OFC	**Crop Production**	Soil & water conservation	Importance and methods of Summer deep ploughing	3	1	0	0	0	0	88	11	0	0
KVK, Bastar	F&FW	ONC	**Crop Production**	Integrated nutrient Management	Training on INM in cereals crops	1	1	0	5	0	0	50	5	4	0
KVK, Bastar	FW	ONC	**Crop Production**	Production of organic inputs	Production practices of Vermi compost	9	1	0	2	0	8	0	251	0	0
KVK, Bastar	F&FW	OFC	**Crop Production**	Others (Pl. Specify)	Training on pulses crop package and practices	1	1	0	0	0	0	27	3	0	0
KVK, Bastar	F&FW	ONC	**Horticulture (Vegetable Crops)**	Production of low volume and high value crops	Production practice of tomato	2	1	0	0	2	8	65	9	0	0
KVK,	F&FW	OFC	**Horticulture**	Off season vegetables	Cultivation of vegetable in green shed	2	2	8	0	0	0	9	1	0	0

Name of KVK	Category (F &FW/ FW)	Training Type (ONC/OFC)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
Bastar			(Vegetable Crops)		net house							0	0		
KVK, Bastar	FW	OFC	Horticulture (Vegetable Crops)	Nursery raising	Nursery management and transplanting techniques in onion	1	1	0	0	0	2	0	46	0	0
KVK, Bastar	F&FW	ONC	Horticulture (Vegetable Crops)	Protective cultivation	Vegetables cultivation in protected structures	4	1	6	0	5	0	128	19	2	1
KVK, Bastar	F	OFC	Horticulture (Vegetable Crops)	Others (Pl. Specify)	Training on farm school and kitchen gardening	1	1	0	0	10	0	15	0	0	0
KVK, Bastar	F&FW	ONC	Horticulture (Fruits)	Layout and Management of Orchards	Banana cultivation layout and management of orchards	1	1	3	0	2	0	50	4	5	0
KVK, Bastar	F&FW	ONC	Horticulture (Fruits)	Cultivation of Fruit	Advance production packaging and marketing techniques of banana	1	1	0	0	10	0	20	5	11	4
KVK, Bastar	F&FW	ONC & OFC	Horticulture (Fruits)	Micro irrigation systems of orchards	Benefits and management of drip irrigation system for orchard	2	1	1	0	2	1	62	4	0	0
KVK, Bastar	F&FW	ONC	Horticulture (Fruits)	Others (Pl. Specify)	Awareness cum capacity building in potential horticulture cluster	1	1	0	0	5	3	15	7	5	3
KVK, Bastar	F&FW	ONC	Horticulture (Ornamental Plants)	Propagation techniques of Ornamental Plants	Training programmes in floriculture	1	1	4	0	0	0	45	5	0	0
KVK, Bastar	F&FW	OFC	Horticulture (Plantation crops)	Production and Management technology	Package and practices on Rabi horticultural crops	1	1	0	0	6	1	76	10	10	0
KVK, Bastar	F&FW	ONC	Soil Health and Fertility Management	Soil fertility management	Training on soil fertility management	1	1	0	0	8	5	42	15	2	6
KVK, Bastar	F&FW	ONC	Soil Health and Fertility Management	Balance Use of fertilizer	Training and awareness programme on fertilizer application	1	1	0	0	5	0	65	15	15	6
KVK, Bastar	F&FW	OFC	Soil Health and Fertility Management	Soil & water testing	Use of balanced fertilizers by Soil testing and method of soil sample collection	1	1	0	0	3	5	90	20	2	0
KVK, Bastar	F&FW	ONC	Livestock Production and Management	Poultry Management	Training on poultry farming	1	1	0	0	0	0	15	5	0	0
KVK, Bastar	F&FW	ONC	Livestock Production and Management	Disease Management	Animal disease control programme for FMD & Brucellosis and artificial insemination programme	1	1	3	2	5	1	121	15	7	1
KVK, Bastar	FW	ONC	Home Science/Women empowerment	Value addition	Processing and value addition of tamarind into ketchup and sauce	1	1	0	0	0	0	0	32	0	0
KVK, Bastar	FW	ONC	Home Science/Women empowerment	Women empowerment	Women empowerment through mushroom cultivation	1	1	0	0	0	0	0	35	0	0

Name of KVK	Category (F&FW/ FW)	Training Type (ONC/OFC)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
KVK, Bastar	F&FW	ONC	**Agril. Engineering**	Farm machinery & its maintenance	Training on use of paddy transplanter, its maintenance and safe storage after use	3	1	6	0	0	0	85	16	1	0
KVK, Bastar	F	ONC	**Agril. Engineering**	Installation and maintenance of micro irrigation systems	Methods of micro irrigation and its benefit on water saving	1	1	0	0	4	0	27	0	0	0
KVK, Bastar	F	ONC	**Agril. Engineering**	Repair and maintenance of farm machinery and implements	Repair and maintenance of seed cum fertilizer drill machine	2	1	0	0	0	0	68	0	0	0
KVK, Bastar	F&FW	ONC	**Agril. Engineering**	Small scale processing and value addition	Processing and value addition of tamarind at cottage level	2	1	0	0	4	0	58	4	0	0
KVK, Bastar	F	OFC	**Agril. Engineering**	Post Harvest Technology	Post-harvest management and safe storage of Kharif crop	2	1	0	0	0	0	72	6	0	0
KVK, Bastar	F&FW	OFC	**Agril. Engineering**	Others (Pl. Specify)	Training on use of paddy transplanter and preparation of nursery bed	3	1	2	0	1	0	89	6	0	0
KVK, Bastar	F&FW	OFC	**Plant Protection**	Integrated Pest Management	Training on insect and pest management in horticultural crops	1	1	0	0	2	0	29	10	0	0
KVK, Bastar	F&FW	ONC	**Plant Protection**	Integrated Disease Management	Disease management of paddy crops	3	1	1	0	5	0	114	15	0	0
KVK, Bastar	F&FW	ONC	**Plant Protection**	Bio control of pests and diseases	Training on preparation of Jivamrit and disease control in Rabi crop	2	1	0	0	0	0	72	6	0	0
KVK, Bastar	F&FW	ONC & OFC	**Plant Protection**	Others (Pl. Specify)	Innovative farming and fall army worm management	2	1	2	0	4	0	72	12	0	0
KVK, Bastar	F&FW	ONC	**Fisheries**	Integrated fish farming	Integrated fish farming	02	01	03	00	04	00	27	12	06	0
KVK, Bastar	F	ONC	**Fisheries**	Carp breeding and hatchery management	Induced Fish Breeding of Carp Fishes	01	01	01	00	04	00	13	00	03	0
KVK, Bastar	F	ONC	**Fisheries**	Carp fry and fingerling rearing	Fish Seed Production	02	01	05	00	07	00	22	00	06	0
KVK, Bastar	F&FW	OFC	**Fisheries**	Composite fish culture	Carp Polly culture	04	01	08	00	18	00	65	16	12	0
KVK, Bastar	F&FW	ONC	**Fisheries**	Portable plastic carp hatchery	Portable Carp Hatchery Management	02	01	03	00	08	00	31	10	05	0
KVK, Bastar	F&FW	ONC	**Production of Input at site**	Seed Production	Rice seed production training	1	1	0	0	0	0	28	3	0	0
KVK, Bastar	F&FW	ONC	**Production of Input at site**	Planting material production	Training on vegetable seedling production at green shed net house	1	1	0	0	0	0	35	2	0	0
KVK, Bastar	FW	ONC	**Production of Input at site**	Vermi compost production	Vermi compost production technology	2	1	0	0	0	0	0	68	0	0
KVK, Bastar	F&FW	ONC	**Production of Input at site**	Production of fry and fingerlings	Training on fingerling production technology	1	1	0	0	0	0	32	4	0	0
KVK,	F&FW	OFC	**Production of**	Production of Bee colonies and	Training on Bee keeping	1	1	0	0	0	0	2	7	0	0

Name of KVK	Category (F&FW/ FW)	Training Type (ONC/OFC)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
Bastar			**Input at site**	wax sheets								3			
KVK, Bastar	F&FW	OFC	**Production of Input at site**	Mushroom production	Training on production of mushroom	1	1	0	0	0	0	25	11	0	0
KVK, Bastar	F&FW	ONC	**Capacity Building and Group Dynamics**	Entrepreneurial development of farmers/youths	Capacity building and entrepreneurship development through processing and value addition of minor millets	5	1	6	0	2	0	175	13	2	0
KVK, Bastar	F&FW	ONC	**Capacity Building and Group Dynamics**	Others (Pl. Specify)	Entrepreneurship development of tribal farmers by processing and value addition of NTFP	1	1	0	0	0	4	2	29	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	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
KVK, Bastar	**RY**	ONC	Nursery Management of Horticulture crops	Nursery management and transplanting techniques in onion	1	1	0	0	0	2	0	46	0	0
KVK, Bastar	**RY**	ONC	Protected cultivation of vegetable crops	Cultivation of vegetables seedlings in high tech poly house	1	1	12	2	19	6	9	2	0	0
KVK, Bastar	**RY**	OFC	Commercial fruit production	Training on guava fruit production technology	1	1	0	0	0	0	26	0	0	0
KVK, Bastar	**RY**	OFC	Seed production	Wheat seed production technology	2	1	2	0	5	q	68	13	2	0
KVK, Bastar	**RY**	ONC	Production of organic inputs	Vermi compost production technology	4	1	6	0	5	0	111	19	2	1
KVK, Bastar	**RY**	ONC	Vermi culture	Production technology of Vermi culture	1	1	0	0	0	0	27	0	0	0
KVK, Bastar	**RY**	OFC	Mushroom Production	Women empowerment though mushroom production technology	2	1	0	0	0	0	48	0	0	0
KVK, Bastar	**RY**	ONC	Bee keeping	Training on honey bee keeping	2	1	0	0	0	0	52	8	0	0
KVK, Bastar	**RY**	ONC	Repair and maintenance of farm machinery and implements	Repair and maintenance of paddy transplanter machine	1	1	0	0	0	0	25	0	0	0
KVK, Bastar	**RY**	ONC	Value addition	Establishment of incubation centers for processing and value addition of locally available agriculture produce and NTFP	1	1	0	0	0	0	45	0	0	0
KVK, Bastar	**RY**	ONC	Small scale processing	Processing and value addition of tomato at small scale	1	1	0	0	0	0	0	30	0	0

Name of KVK	Category (RY)	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
KVK, Bastar	**RY**	ONC	Post Harvest Technology	Post-harvest management and processing of minor millets	1	1	1	0	0	0	25	3	0	0
KVK, Bastar	**RY**	OFC	Poultry production	Training on kadaknath production	1	1	0	0	0	0	22	3	0	0
KVK, Bastar	**RY**	ONC	Composite fish culture	Composite fish culture	02	01	6	0	05	00	41	08	04	00
KVK, Bastar	**RY**	ONC	Fry and fingerling rearing	Fish Seed Production	02	01	2	0	05	00	37	00	07	00

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)	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
KVK, Bastar	**IS**	OFC	Integrated Pest Management	IPM package and practices of Rabi crops	2	1	0	0	0	0	44	6	0	0
KVK, Bastar	**IS**	ONC	Integrated Nutrient management	INM of paddy crop	1	1	0	0	0	0	29	5	0	0
KVK, Bastar	**IS**	ONC	Care and maintenance of farm machinery and implements	Care and maintenance of seed cum fertilizer drill machine	1	1	2	0	0	0	23	0	0	0
KVK, Bastar	**IS**	ONC	Formation and Management of SHGs	Women empowerment through formation of SHG	2	1	0	0	0	0	0	50	0	0

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

Name of KVK	Thematic Area	Sub Theme	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
KVK, Bastar	**Crop production and management**	Commercial fruit production	Advanced production packaging and marketing techniques of Banana	Banana	Fruit production	1	6	0	0	11	4	10	0	20	5
KVK, Bastar	**Crop production and management**	Commercial vegetable production	Training on vegetable production	Vegetable & fruits crops	Vegetable fruits Production	1	6	0	0	0	0	18	2	0	0
KVK, Bastar	**Crop production and management**	Integrated crop management	Organic production of fruits and vegetables	Vegetable & fruits crops	Vegetable fruits Production	1	6	0	0	0	0	0	0	25	0
KVK, Bastar	**Post harvest technology and value addition**	Value addition	Processing and value addition of cashew	Cashew nut	Processing and value addition	1	3	0	0	0	0	0	0	50	0
KVK,	**Livestock and fisheries**	Composite fish culture	Fish Rearing &	Fish	Fish	1	7	1	0	0	0	0	0	1	4

Name of KVK	Thematic Area	Sub Theme	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			Management	production	production									4	
KVK, Bastar	**Income generation activities**	**Others (Pl. Specify)**	Honey Bee Keeping	Honey Bee	Integrated Farming System	1	7	0	0	3	0	0	0	20	7

Table 5.5. Sponsored Training Programmes

Name of KVK	Client (F &FW/FW/ RY/ IS)	Title	Thematic area	Sub-theme	Training Title	Duration (days)	No. of courses	No. of Participants						Sponsoring Agency	Fund received for training (Rs.)
								Gen		Others		SC		ST			
								M	F	M	F	M	F	M	F		
KVK, Bastar	F	Organic production of fruits and vegetables	**Crop production and management**	Commercial production of vegetables	Organic production of fruits and vegetables	6	1	0	0	0	0	0	0	25	0	MANAGE, Hyderabad	42000.00
KVK, Bastar	F&FW	Advanced production packaging and marketing techniques of Banana	**Crop production and management**	Fruit Plants	Advanced production packaging and marketing techniques of Banana	6	1	0	0	11	4	10	0	20	5	National Horticulture Board, Raipur	125000.00
KVK, Bastar	F	Training on production of vermi compost	**Crop production and management**	Production of Inputs at site	Training on production of vermi compost	26	1	0	0	4	0	0	0	16	0	PMKVY, ICAR-ATARI, Jabalpur	330400.00
KVK, Bastar	F	Round the year fodder management and fodder seed production technology	**Crop production and management**	**Others (Pl. Specify)**	Round the year fodder management and fodder seed production technology	4	1	0	0	0	0	0	0	190	10	Department of Agronomy, IGKV, Raipur	100000.00
KVK, Bastar	RY	Fish Rearing & Management	**Livestock and fisheries**	**Others (Fish Farming)**	Fish Rearing & Management	07	01	1	0	0	0	0	0	14	4	MANAGE, Hyderabad	42000.00
KVK, Bastar	F&FW	Animal Disease Control programme	**Livestock and fisheries**	**Others (Pl. Specify)**	Animal Disease Control programme	1	1	0	0	0	16	0	0	120	21	ICAR-ATARI, Jabalpur	15000.00
KVK, Bastar	F&FW	District level seminar on production and processing of	**Agricultural Extension**	Capacity Building and Group Dynamics	District level seminar on production and processing of	1	1	0	0	10	4	5	10	80	30	Directorate of Cashewnut and	50000.00

Name of KVK	Client (F &FW/FW/ RY/ IS)	Title	Thematic area	Sub-theme	Training Title	Duration (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
								Gen		Others		SC		ST			
								M	F	M	F	M	F	M	F		
		cashew			cashew											cocoa development, Kochi, Kerala	
KVK, Bastar	F	Farmers training on cashew	**Agricultural Extension**	Capacity Building and Group Dynamics	Farmers training on cashew	3	1	0	0	0	0	0	0	50	0	Directorate of Cashewnut and cocoa development, Kochi, Kerala	90000.00
KVK, Bastar	F&FW	Fruit plant plantation programme	**Agricultural Extension**	**Others (Pl. Specify)**	Fruit plant plantation programme	1	1	0	0	0	0	5	0	65	7	IFFCO, Jagdalpur	10000.00

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	4
KVK, Bastar	Training on group vegetable farming and kitchen gardening	Group vegetable farming & kitchen gardening	5	17	7
KVK, Bastar	Training on poultry raring	Poultry production	3	3	10
KVK, Bastar	Training on paddy transplanter	Rice cultivation	4	6	2
KVK, Bastar	Training on mushroom production	Mushroom cultivation	5	30	6
KVK, Bastar	Processing and value addition of minor millets	Processing unit	2	2	12
KVK, Bastar	Processing and value addition of pulse	Pulse processing unit	1	1	2

Table 5.7 Training Programmes for Panchayati raj Institutions Office-bearers & members

Name of KVK	Title	Thematic area	Sub-theme	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		
KVK, Bastar	Krishak Shramik dakshta unnayan	Farm mechanization	Small farm implements	RY	1	1	0	0	0	0	0	0	30	0	Deputy Director of Agriculture, Jagdalpur	10000.00
KVK, Bastar	Package and practices of pulse production technology	Crop production	Pulse production	RY	1	1	0	0	3	0	0	0	27	0	Deputy Director of Agriculture, Jagdalpur	0.00
KVK, Bastar	Training on yield maximization of linseed crop though improved agro-techniques	Crop production	Oilseed production	IS	1	1	0	0	0	0	0	0	30	7	ICAR-ATARI, Jabalpur under NFSM	0.00

Table 5.8 Subject area wise details of women farmer specific training programmes organized by KVKs during Jan-Dec-2019

Area of Training	Jan-Dec-2019	
	Courses	Participants
Household food security by kitchen gardening and nutrition gardening	0	0
Design and development of low/minimum cost diet	0	0
Designing and development for high nutrient efficiency diet	0	0
Minimization of nutrient loss in processing	1	25

Area of Training	Jan-Dec-2019	
	Courses	Participants
Processing and cooking	1	32
Gender mainstreaming through SHGs	0	0
Storage loss minimization techniques	1	28
Value addition	1	35
Women empowerment	1	29
Location specific drudgery reduction technologies	1	36
Rural Crafts	0	0
Women and child care	0	0
Others-Agro-Based IGP programme Training Exposure on Sustainable Agriculture	1	61

Table 5.9 Subject area wise details of other than women farmer specific training programmes organized by KVKs during Jan-Dec-2019

Area of Training	Jan-Dec-2019	
	Courses	Participants
Crop Production	45	1538
Horticulture	17	757
Soil Health and Fertility Management	03	304
Livestock Production and Management	04	351
Agril. Engineering	13	449
Plant Protection	08	344
Fisheries	11	289
Production of Input at site	07	170
Capacity Building and Group Dynamics	06	233
Agro forestry	00	00

Table 5.10 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. /ha or Rs. / year)		Impact on		
			Before	After	Before	After	Before	After	% change in knowledge, production & Income	No. of farmers/farm women adopted (no.)	No. of unit established/Area expanded (ha)
KVK, Bastar	Mushroom Cultivation	20	3	8	--	--	45000.00	80000.00	75%	16	2
KVK, Bastar	Vegetable production	6	18	36	27.2	29.50	55000	82000	75%	15	2
KVK, Bastar	Fish Seed Production	40	10%	30%	100000 Nos.	195000 Nos.	3000 (in 3 months)	9450 (in 3 months)	80%	5	2 ha
KVK, Bastar	Composite Fish Farming	239	20%	55%	5	21	10000	45000	75%	18	8 ha
KVK, Bastar	Integrated Fish Farming	101	15%	45%	5	13	10000	43000	75%	13	5 ha
KVK, Bastar	Minor millets seed production	12	22	58	5.2	8.9	8000	22000	80%	22	4 ha

6. EXTENSION ACTIVITIES

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
KVK, Bastar	Agri mobile clinic	14	16	18	21	44	15	144	85	25	14	To solve the problems on agriculture	Production technology of crops, vegetables and fish	Vegetative/maturity stage
KVK, Bastar	Animal Health Camp	02	02	10	3	4	2	121	35	25	08	FMD & Brucellosis and Artificial insemination	Animal disease control programme	Rainy season
KVK, Bastar	Awareness programme	4	6	9	2	18	12	88	36	4	2	Income generation activity	Production technology of field crops, vegetables, fish, value addition and NTFP	sowing to harvesting and storage
KVK, Bastar	Celebration of important days	4	5	0	0	19	8	231	46	11	3	Birth ceremony of Mahatma Gandhi, Internati	Awareness of specific events, Production technol	Vegetative/maturity stage

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
												onal women day, Plantation day, world environment day	ogy of field crops, vegetables and fish	
KVK, Bastar	Diagnostic visits	48	71	10	2	29	11	578	91	17	3	To solve problems of the farmers	Crop production technology	Flowering and fruiting stage
KVK, Bastar	Exhibition	15	18	22	03	521	134	2206	439	135	48	Display the production technology and live method	Demonstration of KVK activities and production technology	Mid Kharif & Rabi
KVK, Bastar	Exposure visits	8	12	0	0	18	02	248	22	2	1	To see the production technology of different agricultural component	Production technology of field crop, vegetables, fish and fish seed, Nationa	Flowering and fruiting stage

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
													l Kisan mela	
KVK, Bastar	Ex-trainees Sammelan	4	6	0	0	8	2	98	16	0	0	To Share the experience on agriculture	Production technology of field crop, vegetables and fish	Vegetative/maturity stage
KVK, Bastar	Farm advisory Services	22	29	52	36	34	15	275	28	25	11	Rectify the agriculture production problems	Production technology, control of disease and pests	vegetative, flowering and maturity stage
KVK, Bastar	Farmers visit to KVK	24	26	115	34	118	42	2124	176	98	29	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	flowering stage

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
													value addition	
KVK, Bastar	Field Day	7	7	8	1	16	04	245	56	9	2	To disseminate improved production technology	Improved cultivation of crop	Vegetative growth stage
KVK, Bastar	Group meetings	8	9	3	1	29	6	91	26	4	2	Discussion with farmers	production technology and plant protection, organic farming	sowing and vegetative stage
KVK, Bastar	Kisan Ghosthi/Sammelan	5	6	14	11	45	8	135	89	6	2	Discussion and interface with farmers	Production technology and plant production	Harvesting stage
KVK, Bastar	Kisan Mela	0	0	0	0	0	0	0	0	0	0	--	--	--
KVK, Bastar	Krishi Mahotsav	1	1	19	4	34	18	310	57	30	12	To educate farmers about	Crop production, plant	Sowing stage

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
												new technology	protection, weeding, vermicomposting, poultry farming, piggery rearing, mushroom production, farm implement and fish production	
KVK, Bastar	Lectures delivered as resource persons	32	48	66	24	102	24	1174	244	46	19	Discussion with farmers	Production technology and plant protection	Before harvesting, flowering
KVK, Bastar	Mahila Mandals conveners meetings	4	4	0	0	0	22	0	102	0	0	Women empowerment for income generati	Production of field crops, vegetables,	Vegetative/maturity stage

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
												on	fish, value addition and NTFP	
KVK, Bastar	Method Demonstrations	7	7	12	3	51	18	261	72	19	8	Demonstration of new technology	Spray of weedicide, Nursery preparation, mushroom production, fish production, vegetable and crop production	Sowing stage
KVK, Bastar	Pradhanmantri phasal beema yojana	2	2	31	12	29	18	145	52	30	12	To educate farmers about fasal bema scheme	Pradhanmantri fasal beema yojna	Sowing stage
KVK, Bastar	Scientific visit to farmers field	36	48	42	19	52	08	328	56	0	0	Diagnose and provide knowled	Production technology of	vegetative and flowering stage

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
												ge to farmers	field crops, vegetables, fish farming, and control of disease and pest	
KVK, Bastar	Self Help Group conveners meetings	5	5	0	0	11	5	92	36	0	0	To strain thing the activities for income generation	Production technology of field crops, vegetables, fish, value addition and NTFP	sowing to harvesting and storage
KVK, Bastar	Soil health Camp	2	2	9	3	12	8	168	49	22	6	Soil health management	Soil status and requirement of manure /fertilizers to the crop	Before sowing
KVK, Bastar	Soil test campaigns	2	2	12	6	22	11	185	26	19	6	To know	Soil health	Before sowing

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
												the soil health status	improvement and soil testing procedure	
KVK, Bastar	Technology Week	2	3	0	0	16	4	178	35	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	Extension literature	12	16	95	22	115	24	1608	192	26	22	To documentation of production technology for upgrade the knowledge of farmers	Production technology of field crops and vegetables and control of disease & pests, value	early growth stage and flowering stage

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
													addition	
KVK, Bastar	Film Show	6	8	45	16	59	19	218	86	14	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	Others	3	4	26	12	66	18	267	76	29	18	To solve the problems on agriculture	Production technology of crops, vegetables and fish	Vegetative/maturity stage

Mass media used for wide publicity

Name of media	Number of events	Name of channel/ Newspaper used	Place of delivery or publication	Coverage of the media (Local/ Regional/National)
Radio talks	3	Prasar Bharti, All India Radio, Jagdalpur	Jagdalpur, Bastar	Regional
TV talks	2	Krishi Darshan, Doordarshan, Jagdalpur	Jagdalpur, Bastar	Regional
Newspaper coverage	42	Dainik Bhaskar, Nav Bharat, Dandakaranya Samachar, Hari Bhoomi, Patrika	Jagdalpur	Local and Regional
Internet (YouTube)	2 (FAW) 1 Bee Keeping 1 (Kadaknath)	News 18 CG, Bansal News, Patrika News, Gao Connection	Jagdalpur, Surguja, Lucknow	Local, Regional, National
Social media (Whats App, Facebook, Instagram, Twitter etc.)	8	WhatsApp	Jagdalpur	Regional

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

7.1 KVK Newsletters (Jan to Dec. 2019)

KVK Name	Period	Quarter	Number of copies printed	Number of copies distributed	Type of beneficiaries receiving the newsletter (Farmer, District/block/Panchayat Official, D.M. etc.
KVK, Bastar	January to March 2019	Q1	500	500	Farmers, District official
KVK, Bastar	April to June 2019	Q2	500	500	Farmers, District official
KVK, Bastar	July to September 2019	Q3	500	500	Farmers, District official
KVK, Bastar	October to December 2019	Q4	500	500	Farmers, District official

7.2 Literature developed/published

KVK Name	Type	Number of copies (please don't give mass please fill number only)
KVK, Bastar	Abstract	4
KVK, Bastar	Book	0
KVK, Bastar	Book Chapter	0
KVK, Bastar	Booklet	0
KVK, Bastar	Leaflets/ Folder/ Pamphlet	6
KVK, Bastar	Popular article	7
KVK, Bastar	Technical Bulletin	2

KVK Name	Type	Number of copies (please don't give mass please fill number only)
KVK, Bastar	Training Manual	0
KVK, Bastar	Technical Report	14
KVK, Bastar	Year Planner	1
KVK, Bastar	Others (pl. specify)	

Research paper /Review paper published during Jan to Dec. 2019

Name of KVK	Title of Research/Review paper	Authors/credit line	Name of Journal	Type of journal (National/International)	NASS Rating (2020) /impact factor
KVK, Bastar	Studies of gamma irradiation on corms growth characters in gladiolus (*Gladiolus grandifloras* L.)	Abhilash Shukla, Sushil Kashyap and Manisha Netam	International Journal of Chemical Studies	International	5.31
KVK, Bastar	Yield gap analysis of Chickpea through front line demonstration in Bastar district of Chhattisgarh	Swati Thakur, Panch Ram Mirjha and Santosh Kumar Nag	Journal of Pharmacognosy and Phytochemistry	International	5.21
KVK, Bastar	Assessment of high yielding varieties and agro-techniques of linseed through front line demonstration	Thakur S., Mirjha P.R. And Nag S.K.	International Journal of Agriculture Sciences	International	4.20
KVK, Bastar	Effect on yield and economics of okra [Abelmoschus esculentus (L.) Moench] under different intercropping system	Sachin Kumar and Dharmpal Kerketta	International Journal of Chemical Studies	International	5.31
KVK, Bastar	Evaluation of different planting methods for growth and yield of paddy (Oryza sativa L.).	Sachin Kumar, Dhrampal Kerketta and LS Verma	International Journal of Chemical Studies	International	5.31
KVK, Bastar	A Preliminary Report of Collembola (Arthropoda: Collembola) from Northern Hill Region of Chhattisgarh, India	Dharmpal Kerketta, Ramesh Singh Yadav and G.P. Painkra	Int.J.Curr. Microbiol.App.Sci	International	5.38

7.3 Details of Electronic Media Produced

KVK Name	Type of media (CD/DVD)	Title of the programme	Number
KVK, Bastar	CD	Vermi compost production technology	25

8. Production and supply of Technological products

8.1 SEED production

KVK Name	Crop Category	Name of Crop	Variety	Quantity (qt.)	Value (Rs.)	Provided to no. of Farmers/society	Expected area coverage (ha.)
KVK, Bastar	Foundation	Paddy	Rajeshwatri	49.2	151290	1	6.6
KVK, Bastar	Foundation	Paddy	Durgeshwari	64	196800	1	8.6

8.2 Planting Material production

KVK Name	Major group/class	Name of Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
KVK, Bastar	Vegetable	Chilli	NS1710	90000	0.5	30	5
KVK, Bastar	Vegetable	Brinjal	Vaibhav	80000	0.5	24	3
KVK, Bastar	Vegetable	Tomato	Swarakchha	80000	0.5	25	4
KVK, Bastar	Vegetable	Cabbage	NS22	6000	0.5	8	0.2
KVK, Bastar	Vegetable	Cauliflower	Research glory	6000	0.5	5	0.3
KVK, Bastar	Fruit	Mango	Amrapali	500	40	10	0.5
KVK, Bastar	Fruit	Guava	Allahabad safeda	2000	30	13	0.2

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

*** Name of product should follow same pattern**

KVK Name	List of 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.), if applied

KVK Name	List of 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.), if applied
KVK, Bastar	**Bio Fertilizers**	Non Symbiotic Azotobacter					
KVK, Bastar		Vermicompost	200		1200.00	2	1
KVK, Bastar		Azolla					
KVK, Bastar		Earthworms					
KVK, Bastar		Compost					
KVK, Bastar		Blue green algae					
KVK, Bastar		NADEP					
KVK, Bastar		Sanjeewani Khad					
KVK, Bastar		Acetobactor					
KVK, Bastar		Aspergillius					
KVK, Bastar		Azatobactor					
KVK, Bastar		Azospirillum					
KVK, Bastar		Phosphate solublizing Bacteria					
KVK, Bastar		Rhizobium					
KVK, Bastar		Other (pl. sp.)					
KVK, Bastar	**Bio-Food**	Spirulina					
KVK, Bastar		Honey					
KVK, Bastar		Any Other (pl. sp.)					
KVK, Bastar	**Bio Pesticides**	Neem extract					
KVK, Bastar		Neem powder					
KVK, Bastar		Tobacco extract					
KVK, Bastar		Trichoderma viride	150		22500.00	15	7
KVK, Bastar		Trichoderma harjinum					

KVK Name	List of 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.), if applied
KVK, Bastar		Trichogramma chilonis					
KVK, Bastar		Beauveria bassiana					
KVK, Bastar		Metarhizium anisopliae					
KVK, Bastar		Pseudomonas fluorescens					
KVK, Bastar		SlNPV					
KVK, Bastar		HaNPV					
KVK, Bastar		GF1					
KVK, Bastar		Baco Lures					
KVK, Bastar		Heli Lures					
KVK, Bastar		Leucin Lures					
KVK, Bastar		Paeciliomyces					
KVK, Bastar		Panchagavya					
KVK, Bastar		Verticillium					
KVK, Bastar	**Bio Agents (Tricho card)**	Trichogramma chilonis					
KVK, Bastar		Chrysoperla carnea					
KVK, Bastar		Tricho card					
KVK, Bastar		Any other **(Pl. Specify)**					
KVK, Bastar	**Bio Agents (Pyrilla parasitoids)**	Ooincirtus papilionis					
KVK, Bastar		Epiricania melanolauca					
KVK, Bastar	**Bio Agents (Worms)**	Assinia foetida					
KVK, Bastar		Eudrilus eugeniae					
KVK, Bastar		Euclnia Uginae					
KVK, Bastar		Eisenia foetida					
KVK, Bastar		Earth worm	16		12800.00	6	0.2
KVK, Bastar		Any other **(pl. specify)**					
KVK, Bastar	**Others**	Mushroom spawn					
KVK, Bastar		Mineral Mixture					
KVK, Bastar		Cow dung (dry)					
KVK, Bastar		Any other **(pl. specify)**					

8.4 Livestock and fisheries production

KVK Name	Type	Name of the animal / bird / aquatics	Breed	Type of Produce	Quantity		Value (Rs.)	No. of Beneficiaries
					unit (kg/qt./liter/no)	Qty.		
KVK, Bastar	Dairy animals	Cow						
KVK, Bastar		Calves						
KVK, Bastar		Goats						
KVK, Bastar		Buffaloes						
KVK, Bastar		Sheep						
KVK, Bastar		Breeding bull						
KVK, Bastar		Other **(pl specify)**	-	Milk	Liter	2853	114120.00	17
KVK, Bastar	Poultry	Poultry	Kadaknath	Chicks & Chicken	45	600	76820.00	325
KVK, Bastar		Japanese quail						
KVK, Bastar		Japanese quail eggs						
KVK, Bastar		Ducks						
KVK, Bastar		Turkey						
KVK, Bastar		Other						
KVK, Bastar	Piggery	Piglets						
KVK, Bastar		Boar						
KVK, Bastar		Sow						
KVK, Bastar		Other **(pl specify)**						
KVK, Bastar	Fisheries	Indian carp						
KVK, Bastar		Exotic carp						
KVK, Bastar		Other **(pl specify)**	IMC	Fingerling	Numbers	123000	73800.00	45

9. Activities of Soil and Water Testing Laboratory

9.1 Details of soil samples analyzed during Jan to Dec. 2019:

KVK Name	Status of establishment of Soil testing Laboratory (Y/N) and year, if yes	Soil Testing Kits till date		No of soil samples		No. of Samples analyzed			No. of Farmers benefited			No. of Villages covered	Amount realized	Soil health card distributed to the farmers by KVK (Nos)	
						by KVKs		By Department	By KVK		By Department			Through Mini Soil Testing kit	Through Soil testing laboratory
		Sanctioned	Procured	Collected by KVKs	Provided by Dept./ DDA	Mini Soil Testing kit	Soil testing laboratory		Mini Soil Testing kit	Soil testing laboratory					
KVK, Bastar	Yes, 2008	0	0	71	0	22	49	1692	22	49	1130	11	0	22	49

9.2 Details of water samples analyzed so far :

KVK Name	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Test report distributed to the farmers (Nos)
KVK, Bastar	0	0	0	0	0

10. Rainwater Harvesting

10.1. 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								
					SC		ST		Other		General		Total
					Male	Female	Male	Female	Male	Female	Male	Female	
KVK, Bastar	29.07.2019	Adoption of water harvesting technology	RY	1	2	0	39	3	0	0	0	0	44

10.2. Information of Visit in Rainwater Harvesting Demonstration Unit

Name of KVK	No. of Training programmes under Rain water Harvesting	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)
KVK, Bastar	1	1	50	75	8

11. Training Programmes on Micro irrigation (Drip and Sprinkler)

Name of KVK	Date	Title of the training course	Client	No. of Courses	No. of Participants								
					SC		ST		Other		General		Total
					Male	Female	Male	Female	Male	Female	Male	Female	
KVK, Bastar	23.10.2019	Cultivation of Rabi crops using drip irrigation system	Shriva Pumps Pvt. Ltd., Raipur	1	0	0	22	0	0	0	0	0	22
KVK, Bastar	20.11.2019	Benefits and management of drip irrigation system for orchard	Department of Agricultural Engineering, Jagdalpur	1	2	1	62	4	2	1	1	0	73
KVK, Bastar	17.12.2019	Methods of micro irrigation and its benefit on water saving	Deputy Director of Agriculture, Jagdalpur	1	0	1	27	0	4	0	0	0	32

12. Utilization of Farmers Hostel facilities

KVK Name	Months	Year	No. of trainees/ farmers/ visitors stayed	Duration of Stay (days)	Reason for vacant farmers hostel (if any)	Accommodation available in F.H. (No. of beds)
KVK, Bastar						

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

13. 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	2011-12	05	00	-

14. Details of SAC Meeting during Jan to Dec. 2019

KVK Name	Date of SAC meeting 2019	No. of SAC members (only) attended	Major action points
KVK, Bastar	06.03.2019	23	▪ Implementation and use of automatic seed drill at farmer's field is required therefore demonstration of it at farmer's field should be emphasized. ▪ Fish in this region demonstration on fisheries technology should be taken more to promote high fish production in Bastar. ▪ 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. ▪ Water melon production and market demand in the Bastar. This region is good for water melon production therefore more demonstrations are required for its large production in Bastar. ▪ Wide publicity should be conducted for smart Kisan mobile app. ▪ Effort should be done to make KVK, farm as an idle farm.

KVK, Bastar	04.11.2019	27	▪ Works should be done to promote value addition activities of tamarind. ▪ Work should be based on use of herbicide, meccanization of farm practices. ▪ Market linkage of forest produce. ▪ Farmer wants to store mahua for long time in order to get effective income during off season. Therefore, a storage research should be conducted for mahua collectors to increase storage period. ▪ KVK, work should be focused on livelihood activity based. So, farmers can double their income within available resources. ▪ Bastar district is highly affected by FAW of maize crop. Wide publicity and district level workshop should be conducted to aware farmers on insect-pest management of maize crop. ▪ Secure a one-acre patch at KVK, Farm for production of feed and fodder.

15. Footfall of farmers in KVKs (Jan. 2019 to Dec. 2019)

Name of KVK	Footfall during 2019			
	No. of Farmers	No. of officials	No. of VIPs	Total
KVK, Bastar	2609	127	24	2760

***Separate JPEG Photographs (2-3 only)**

16. Status of Kisan Mobile Advisory (KVK-KMA)

KVK	S. No.	Thematic area	Particulars	No of Calls	No of Messages sent	No. of farmers received messages	Total no of villages in District	No of village Covered by KVK through KMA
KVK, Bastar	1	Crop Management	Crop Production Technology	0	6	12342	358	358
			Integrated Farming	0	3	12327	358	358
			Field Preparation	0	3	12338	358	358

KVK	S. No.	Thematic area	Particulars	No of Calls	No of Messages sent	No. of farmers received messages	Total no of villages in District	No of village Covered by KVK through KMA
			Any Other (Specify)	0	3	12304	358	358
	2	Weather	Advisory	0	1	25213	358	358
			Change in variety	0	0	0	0	0
			Change in Sowing technique	0	0	0	0	0
			Climate forecast	0	0	0	0	0
			Any Other (Specify)	0	0	0	0	0
	3	Soil Management	Soil Testing	0	0	0	0	0
			INM	0	0	0	0	0
			Fertilizer Application	0	1	25213	358	358
			Vermicomposting/ bio-waste recycling	0	0	0	0	0
			Bio-fertilizer	0	0	0	0	0
			Any Other (Specify)	0	0	0	0	0
	4	Disease & Pest Management	Disease Management	0	2	12342	358	358
			Pest Management	0	1	12341	358	358
			Preventive Advisory Disease Management	0	1	12334	358	358
			Preventive Advisory Pest Management	0	1	25225	358	358
			Bio-pesticides	0	1	25212	358	358
			Any Other (Specify)	0	1	25213	358	358
	5	Nutrition Security & Women Empowerment	Nutrition Awareness	0	0	0	0	0
			Kitchen garden	0	0	0	0	0
			Value Addition and Processing	0	1	25213	358	358
			Drudgery Reduction	0	0	0	0	0
			Entrepreneurship & Income Generation	0	0	0	0	0
			Advisory	0	0	0	0	0
			Any Other (Specify)	0	0	0	0	0
	6	Horticulture	Vegetable	0	2	16038	358	358
			Fruit	0	1	16	16	16
			Hi Tech Horticulture	0	1	23	23	23

KVK	S. No.	Thematic area	Particulars	No of Calls	No of Messages sent	No. of farmers received messages	Total no of villages in District	No of village Covered by KVK through KMA
			Any Other (Specify)	0	1	24	24	24
	7	Livestock	Feed and Fodder	0	0	0	0	0
			Dairy Management	0	0	0	0	0
			Fisheries	0	0	0	0	0
			Poultry Management	0	0	0	0	0
			Vaccination & Disease management	0	1	25213	358	358
			Any Other (Specify)	0	0	0	0	0
	8	Farm Mechanization		0	4	25213	358	358
	9	Extension		0	0	0	0	0
	10	Organic Farming		0	2	25213	358	358
	11	Marketing		0	0	0	0	0
	12	Awareness		0	0	0	0	0
	13	Other Enterprise		0	0	0	0	0
	14	Any Other (Specify)	Kisan Mela Information	0	1	25215	358	358

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

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received (Rs.)	Name of activities organized	Name of operational Area and acreage (ha.)	Present status (Functional/Nonfunctional)
KVK, 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.)	1000000.00	Characterization of land resource for development of Agriculture land use plan	Block-Jagdalpur	Functional
KVK, Bastar	Soil Test Crop Response (STCR)	Department of Soil Science and Agricultural Chemistry,	150000.00	For conducting the STCR based FLDs programmes	Village – Kondaloor, Jhartarai, Retawand, Block – Tokapal and Bastar (12.14 ha)	Functional

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received (Rs.)	Name of activities organized	Name of operational Area and acreage (ha.)	Present status (Functional/Nonfunctional)
		IGKV, Raipur				
KVK, Bastar	Cereal System Initiative for South Asia	CSISA, Bhubaneshwar	160000.00	For conducting activities for production practices survey under CSISA	Bastar district	Functional
KVK, Bastar	Rashtriya Krishi Vikas Yojana	Department of Agricultural Processing and Food Engineering, IGKV, Raipur	1100000.00	Establishment of incubation center for processing and value addition of locally available agricultural produce and NTFP	KVK, Bastar	Functional

18. Status of Contingency Utilization Jan-Dec-2019

Name of KVK	Total Contingency allotted (Rs.)	Fund used by KVKs (Rs)			Balance (Rs.)
		Activities	No of Activities	Exp (Rs)	
KVK, Bastar	1300000.00	OFT	11	82340.00	272516.00
		FLD **(other than CFLD)**	10	96456.00	
		Training	146	170440.00	
		Extension Activities	363	456511.00	
		SAC Meeting	2	30000.00	
		Special Programme **(Pl. Specify)**	5	72453.00	
		Others **(Pl. Specify)**	9	119284.00	

19. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance on 01 .01.2019 (Rs.)	Closing balance 31.12.2019 (Rs.)	Name of major source of revolving fund
KVK, Bastar	10480252036	402932.00	42658.00	KVK Farm Produce
KVK, Bastar	50138084461	280718.00	71691.00	Fish seed

20. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Award category (local/ Regional/ National)	Awarding Organizations	Amount received
KVK, Bastar	Sh. Dhamrudhar Baghel	Krishak Samriddhi Award - Famer	Regional	Krishak Samriddhi, Raipur	Cerfitcate & Momento
KVK, Bastar	Sh. Nadgu Ram Kashyap	Krishak Samriddhi Award - Famer	Regional	Krishak Samriddhi, Raipur	Cerfitcate & Momento
KVK, Bastar	Sh. Vinod Kumar Kashyap	Krishak Samriddhi Award - Famer	Regional	Krishak Samriddhi, Raipur	Cerfitcate & Momento
KVK, Bastar	Sh. Libru Ram Nag	Krishak Samriddhi Award - Famer	Regional	Krishak Samriddhi, Raipur	Cerfitcate & Momento
KVK, Bastar	Sh. Vinod Kumar Kashyap	Krishak Samriddhi Award - Famer	Regional	Krishak Samriddhi, Raipur	Cerfitcate & Momento
KVK, Bastar	Sh. Satyajit Singh Rathod	Innovative Farmer Award – Individual	Regional	IGKV, Raipur	Cerfitcate & Momento
KVK, Bastar	Sh. Kamal Kishor Kashyap	Innovative Farmer Award – Individual	Regional	IGKV, Raipur	Cerfitcate & Momento

21. Details of Crop cafeteria in Agro-technological Park in your KVK.

Area covered under crop cafeteria (sq. meter)	Type of crop (Cereals, Pulses, Oilseeds, Vegetables, medicinal, Spices, fruits etc.)	Name of crop	Name (s) of variety	Name of best variety of concerned crop
12 m^2	Cereals	Rice	IGKV R1 (T1) IGKV R2 (T2) C.G. Deobhog (T3) Zinco Rice MS (T4) DRR Dhan 42 (T5)	MTU 1190 (T18)

			DRR Dhan 44 (T6) DRR Dhan 60 (T7) Sahbhagidhan (T8) R-RRF -105 (T9) R-RRF-127 (T10) RRGY 4 (T11) RRGY 2 (T12) Swarna (T13) MTU 1001 (T14) MTU 1010 (T15) IR 64 (T16) MTU 1153 (T17) MTU 1190 (T18) MTU 1075 (T19) 27 P 37 (T20) 6444 Gold (T21) AZ8433DT (T22) 27P31 (T23) SRD 55 (T24) US 312 (T25)	
14 m^2	Vegetables	Cowpea	Gaytri, Lalima, uajwala	Lalima

22. 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 farm innovator with pin code	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	9399341249
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 Badebendri Block Kondagaon	9479005463
10.	KVK, Bastar	Mr. Sukhman	Integrated farming system	Village Badechakwa, Block Bastar	9516507247

***Attached separate File**

23. KVK interaction with progressive farmers

KVK Name	Date and month of interaction programme with progressive farmers	No. of progressive farmers participated
KVK, Bastar	20.05.2019 (World Honey Bee celebration programme)	03
KVK, Bastar	01.08.2019 (Celebration of Hareli Tihar & Plantation programme)	02
KVK, Bastar	05th December 2019 (World Soil Health Day Programme)	06
KVK, Bastar	05.06.2019 (Celebration of World Environment Day and Plantation programme)	04

24. Outreach of KVK

Name of KVK	Total number of Block/villages in district		Number of Blocks		Number of Villages	
	Block	Village	Intensive	Extensive	Intensive	Extensive
KVK, Bastar	7	358	05	02	38	172

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, and Awareness programmes etc.

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

KVK Name	Name of crop under Technology demonstration	Area under the programme/ Demonstration	No. of Farmers benefited	No of Villages Covered	No. of Extension Activities	No. of Farmers benefited by extension activities	Results/ Observation*
KVK, Bastar	Chickpea	20 ha	50	03	8	145	Awaited

***Attached separate File**

26. KVK Ring

KVK Name	Name of Ring Partner	Name of activities/Events organized in collaboration	No. of Participants		Lessons learnt/ Experiences gained.
			Your KVK	Other KVK	
KVK, Bastar	KVK, Kanker	Farm Machineries, Mushroom Production and Group activities	22	10	Improve technologies in groups and market linkage
KVK, Bastar	KVK, Dantewada	Organic farming, Badi development works	35	25	Vegetable and fruit production activities
KVK, Bastar	KVK, Bijapur	Mushroom production	18	11	Mushroom
KVK, Bastar	KVK, Narayanpur	Local species of different crops (tuber crops)	10	19	Tuber crops

27. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
KVK, Bastar	Dr. S. Patel, Professor & Head/Nodal Officer (ICAR), Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.)	15.01.2019	0	4	6	--
KVK, Bastar	Dr. A. L. Rathore, Director Extension Services, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.)	07.02.2019	0	3	7	--
KVK, Bastar	Dr. H. P. Singh, Former DDG (Horticulture), Chairman-CHAI, Secunderabad, Telangana	15.02.2019	1	1	4	--
KVK, Bastar	Dr. V. Rajendran, Dean, AEC&RI, Kumlur, TNAU, Coimbatore	16.02.2019	0	2	5	--
KVK, Bastar	Dr. S. K. Patil, Hon'ble Vice Chancellor, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.)	06.03.2019	0	12	15	--
KVK, Bastar	Dr. S. C. Mukherjee, Director of Extension Services, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.)	10.07.2019	0	3	4	--
KVK, Bastar	Dr. S. C. Mukherjee, Director of Extension Services, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.)	01.08.2019	0	2	6	--
KVK, Bastar	Dr. S. C. Mukherjee, Director of Extension Services, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.)	30.08.2019	0	1	5	--
KVK, Bastar	Dr. Sanket Thakur, MD, Agricon Agro Producer company ltd. Raipur	15.10.2019	0	2	3	--
KVK, Bastar	Dr. S. K. Patil, Hon'ble Vice Chancellor, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.)	04.11.2019	0	4	7	--

28. Status of KVK Website during Jan to Dec. 2019

S. No	Name of KVK	Date of start of website	Address of Website	No. of updates during 2019	No. of visitors during 2019
1	KVK, Bastar	04.11.2012	www.kvkbastar.org	24	30951

29. Status of Mobile Apps developed by KVK

Name of KVK	Year	Title of Mobile App	Link to Play Store	No. of Installs

30. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals	Remarks
1.	KVK, Bastar	04	04	-

31. Status of Citizen Charter

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

32. Participation in HRD Programmes organized by ATARI

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
KVK, Bastar	Er. Rahul Sahu	Subject Matter Specialist	4	--
KVK, Bastar	Smt. Swati Thakur Mirjha	Subject Matter Specialist	3	--
KVK, Bastar	Sh. Sushil Kumar Kashyap	Subject Matter Specialist	1	--
	Total		8	

Name of KVK	Total Number of staff Attended HRD Programme organized by ATARI (nos)	Total Number of Programme attended (Nos)
KVK, Bastar	3	8

33. Participation in HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
KVK, Bastar	Sh. G. P. Ayam	Senior Scientist & Head	2	
KVK, Bastar	Er. Rahul Sahu	Subject Matter Specialist	1	
KVK, Bastar	Sh. D. Kerketta	Subject Matter Specialist	1	

KVK, Bastar	Sh. L. R. Verma	Subject Matter Specialist	1	
	Total		5	

Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
KVK, Bastar	4	5

34. Participation in HRD Programmes by KVK Staff (Refresher course, Short course, Training programme etc.)

Name of KVK	Name of Staff	Post held	Programmes attended (Nos)	Duration (days)	Type of HRD activities (Refresher course/CAFT/Summer winter school/short course)
KVK, Bastar	Smt. Swati Thakur Mirjha	Subject Matter Specialist	1	1	Refresher course
KVK, Bastar	Sh. Sushil Kumar Kashyap	Subject Matter Specialist	1	1	Refresher course

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

35. Agri alert report (Epidemic, high serious nature problem, Cyclone etc. reported first time to ATARI, SAU, Agri. Deptt. and ICAR)

Name of KVK	Situation observed	Date of Alert sent	Type of alert (KMA,	Reported to organization
KVK, Bastar	Invasion of fall army worm insect in Maize crop	18.08.2019	Invasion of fall army worm insect invaded in Bastar	ZPD, IGKV (DRS, DES, Entomology Dept), State Agriculture Department

36. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock /technology
KVK, Bastar	Gosthies	7	207	Improve cultivation of cereals, Maize and pulses Gram
KVK, Bastar	Lectures organized	12	192	Improve cultivation of tubers, Vegetables and pulses
KVK, Bastar	Exhibition	1	155	Value addition, tuber biodiversity, minor millet

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock /technology
				processing, Package of practices of Kharif crop
KVK, Bastar	Film show	6	443	Production technology of Kharif and Rabi crop
KVK, Bastar	Fair	1	228	Pre Rabi Farmers Fair
KVK, Bastar	Farm/ Field Visit	11	291	Displayed the improved technologies
KVK, Bastar	Diagnostic Practical's	13	92	Solve the problems in crop production
KVK, Bastar	Distribution of Literature (No.)	26	345	Crop production technology literatures
KVK, Bastar	Distribution of Seed (q)	4	32	Improved variety of vegetables seeds, paddy seeds and finger millet seed
KVK, Bastar	Distribution of Planting materials (No.)	250	25	Strawberry, grafted brinjal and mango
KVK, Bastar	Bio Product distribution (Kg)	30	30	Trichoderma
KVK, Bastar	Distribution of Bio Fertilizers (q)	1	5	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	182	Kharif and Rabi crops
KVK, Bastar	Animal health camp	2	192	FMD and Brucellosis disease control programme
KVK, Bastar	Awareness programme	14	246	Swachhata and weed management programme
KVK, Bastar	Demonstration	4	138	Demonstration of different field crop
KVK, Bastar	Exposure visit	5	162	Rashtriya Kisan mela and exhibition
KVK, Bastar	Ex-trainees Meet	2	48	In plantation programme during world environment day
KVK, Bastar	Farmer scientist interaction	5	244	Interacted with farmers and shared field and research-based knowledge
KVK, Bastar	Farmers Training	8	339	Crop production and management
KVK, Bastar	Gajarghans Unmulan Pakhwada	2	85	Eradication
KVK, Bastar	Group Meeting	3	152	Planning and implementation of different project and crop production
KVK, Bastar	Jai Kisan Jai Vigyan Sangoshthi	1	55	Kharif crop production technology
KVK, Bastar	Plant Protection Week	1	57	Management of fall army worm in maize crop
KVK, Bastar	Seed treatment campaign	3	147	Paddy and pulses seed treatment

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock /technology
KVK, Bastar	Self Help Group convener meet	1	25	Tamarind processing SHG
KVK, Bastar	Soil health Camp	1	79	World soil health day
KVK, Bastar	Swachha Bharat Abhiyan	8	387	On occasion of Gandhi Jayanti and Celebration of Swachachhata pakhwada
KVK, Bastar	Others (Pl. Specify)			

37. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

Name of KVK	Crops	Variety	Area (ha)	Number of beneficiaries
KVK, Bastar	Finger millets (Indira Ragi-1)	1	20	50
KVK, Bastar	Indira Kodo-1	1	2	5

Farmers-scientists interaction on livestock management

Name of KVK	Livestock components (Breading/Feeding/ Health/ Housing)	Number of interactions	No. of participants
KVK, Bastar	Housing	1	42
KVK, Bastar	Health	1	98
KVK, Bastar	Breeding	2	65
KVK, Bastar	Feeding	2	61

Animal health camps organized

Name of KVK	Number of camps	No. of animals Attended	No. of farmers Benefitted
KVK, Bastar	2	22	157

Seed distribution in drought hit area

Name of KVK	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
KVK, Bastar	Finger millet	0.8	20	50

Seedlings and Saplings distributed

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
Seedlings				
KVK, Bastar	Chilli	90000	5	30
KVK, Bastar	Brinjal	80000	3	24
KVK, Bastar	Tomato	80000	4	25
KVK, Bastar	Cabbage	6000	0.2	8
KVK, Bastar	Cauliflower	6000	0.3	5
Saplings				
KVK, Bastar	Mango	500	0.5	10
KVK, Bastar	Guava	2000	0.2	13

Bio-control Agents

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

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	215	2	5

Worms Produced

Name of KVK	Worms Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers
KVK, Bastar	worms	0.003	-	01

Large scale adoption of resource conservation technologies

Name of KVK	Crops	Variety	list of resource conservation technologies introduced	Area (ha)	Number of farmers
KVK Bastar	Rice	MTU 1010	Fertilizer management	2	05
KVK Bastar	Finger Millet	Indira Ragi – 1	Irrigation management	2	05
KVK Bastar	Maize	High cell	Integrated nutrient management	16	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
KVK, Bastar	3	152	7	207	7	330	1	228	1	155	6	443

38. 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

39. (a) Case study / Success Story– (best two only in the following format in separate file attached)

<table>
<tr><td>Name of the KVK</td><td>KVK, Bastar</td></tr>
<tr><td>TITLE</td><td>SHG Become A Company</td></tr>
<tr><td>Introduction</td><td>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 middle men’s in very low price. After that, KVK assess the scope and potential of value addition of these existing agricultural produce with set of objectives, i.e. to enhance the value of agricultural commodities of the farmers, livelihood generation to increase the farmer’s annual income. With respect to these objectives KVK, Bastar conducted the various OFT, FLD and skill development training programmes on processing, value addition and market linkage at local, district and state levels.</td></tr>
<tr><td>KVK intervention</td><td>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 farmers started processing and value addition of their produce in small scale under SHG with the technical guidance of KVK and ensured double or more prices of their value-added products. After intervention of NRLM/SRLM in the district farmers of the group/SHG’s united together with other producer groups/SHG’s and formed a company called “Bastar KPCL company” and empowered with technical knowhow and processing equipment with the help of various district departments and central/state sponsored schemes like NAIP, TSP, DMFT etc. 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.</td></tr>
<tr><td>Output</td><td>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.</td></tr>
<tr><td>Outcome</td><td>
<table>
<tr><th>Processed/Value added Commodity</th><th>Demand (q/year)</th><th>Price/kg</th></tr>
<tr><td>Kodo Rice</td><td>144</td><td>80.00</td></tr>
<tr><td>Kutki Rice</td><td>120</td><td>70.00</td></tr>
<tr><td>Scented Rice</td><td>120</td><td>80.00</td></tr>
<tr><td>Malt</td><td>04</td><td>110.00</td></tr>
<tr><td>Multi-grain flour (Ragi based)</td><td>04</td><td>55.00</td></tr>
<tr><td>Pulse</td><td>05</td><td>110.00</td></tr>
</table>
</td></tr>
<tr><td>Impact</td><td>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.</td></tr>
</table>

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

Demonstration of millets processing technology & Distribution of mini rice mill by Shri Dinesh Kashyap, Hon'ble Member of Parliament, Govt. of India, to the rice producer farmers groups of adopted villages

<table>
<tr><td>Name of the KVK</td><td>KVK, Bastar</td></tr>
<tr><td>TITLE</td><td>Success Story of Niger Cluster Demonstration</td></tr>
<tr><td>Introduction</td><td>Name of Farmer and Address- Tulso Ram Mandavi & Village-Tirthum, Block – Bastanar, Bastar
Background information about farmer field – Land Holding-5.60-acre, 2-acre irrigated area with solar pump, diesel pump and well, Cropping System- Paddy-Maize, Niger-fallow, Paddy-Chickpea, Paddy- wheat, Net income – 2 lakhs annually. Assets- Tractor, Cultivator, plough.</td></tr>
<tr><td>KVK intervention</td><td>Improved Variety, Seed Treatment with Carbendazim, PSB Culture@ 10 g/kg, STCR based fertilizer application, Weed Management by application of Pre-emergence Pendimethalin, application of NPK (18:18:18) before flowering.</td></tr>
<tr><td>Output</td><td>
<table>
<tr><th>Used Practice</th><th>Yield (q/ha)</th><th>Gross cost (Rs/ha)</th><th>Gross income (Rs/ha)</th><th>Net income (Rs/ha)</th><th>B:C ratio</th></tr>
<tr><td>Farmer practices</td><td>4.9</td><td>9991.00</td><td>28714.00</td><td>18729.00</td><td>2.87</td></tr>
<tr><td>Demonstration</td><td>5.7</td><td>10791.00</td><td>33402.00</td><td>22611.00</td><td>3.1</td></tr>
<tr><td>% Increase</td><td>16.33</td><td></td><td></td><td></td><td></td></tr>
</table>
</td></tr>
<tr><td>Outcome</td><td>More Production and maximum capsule compared to other varieties.</td></tr>
<tr><td>Impact</td><td>Cuscuta reflexa is minimized with seed treatment of Brine solution fb carbendazim.</td></tr>
</table>



Niger Crop at Village Tirthum Block- Bastanar

(b) Summary of Case study / Success Story developed by KVK

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

40. Well labeled Photographs in .jpeg format with high resolution (300 dpi) of each activity of the KVK. (Separately) (pl don't paste photo in word file)