

# ANNUAL PROGRESS REPORT

January 2020 to December 2020



**Krishi Vigyan Kendra, Bemetara (C.G.)**



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## **Instructions for Filling the Format**

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

**REPORTING PERIOD – January 2020 to December 2020**  
**Summary of KVK Annual Report (Quantifiable Achievement) for the year 2020**

**i. OFT and FLD**

S.No.	KVK Name	Activity	Achievement	
			Number of activity	No. of farmers / beneficiaries
<b>1</b>	<b>Bemetara</b>	<b>OFT</b>	<b>14</b>	<b>84</b>
<b>a.</b>		<b>OFT- Crops (like Agronomy/Horticulture/ Soil Science/Plant Protection/Plant Breeding/ Agroforestry etc)</b>		
➤		Proposed OFT	14	84
➤		On Going OFT	-	-
➤		Technologies assessed (Completed OFT)	14	84
➤		Technologies refined	-	-
<b>b.</b>		<b>OFT- Agriculture Engineering</b>		
➤		Proposed OFT	02	12
➤		On Going OFT	-	-
➤		Technologies assessed (Completed OFT)	02	12
➤		Technologies refined	-	-
<b>c.</b>		<b>OFT- Animal Science - Nil</b>		
➤		Proposed OFT		
➤		On Going OFT		
➤		Technologies assessed (Completed OFT)		
➤		Technologies refined		
<b>d.</b>		<b>OFT- Fisheries</b>		
➤		Proposed OFT	02	10
➤		On Going OFT	02	10
➤		Technologies assessed (Completed OFT)	-	-
➤		Technologies refined	-	-
<b>e.</b>		<b>OFT- Extension - Nil</b>		
➤		Proposed OFT		
➤		On Going OFT		
➤		Technologies assessed (Completed OFT)		
➤		Technologies refined		
<b>f.</b>		<b>OFT- Home Science - Nil</b>		
➤		Proposed OFT		
➤		On Going OFT		
➤		Technologies assessed (Completed OFT)		
➤		Technologies refined		

		Activity	Area (ha) / no. of Unit/Enterprise	No. of farmers / beneficiaries
<b>2</b>		<b>FLD</b>	<b>09</b>	<b>80</b>
a.		CFLD-Oilseed (in ha)	30	53
b.		CFLD-Pulses (in ha)	40	60
c.		<b>FLD- Crop All (other than CFLD) (in ha)</b>		
➤		Proposed Frontline demonstrations	09	80
➤		On Going Frontline demonstrations	06	30
➤		Completed Frontline demonstrations	09	80
d.		<b>FLD- Agriculture Engineering (in ha)</b>		
➤		Proposed Frontline demonstrations	03	30
➤		On Going Frontline demonstrations	01	10
➤		Completed Frontline demonstrations	02	20
e.		<b>FLD - Animal Science (in ha for fodder/ no. of Unit/Enterprise) - Nil</b>		
➤		Proposed Frontline demonstrations		
➤		On Going Frontline demonstrations		
➤		Completed Frontline demonstrations		
f.		<b>FLD - Fisheries (in ha/ no. of Unit/ Enterprise)</b>		
➤		Proposed Frontline demonstrations	02	10
➤		On Going Frontline demonstrations	02	10
➤		Completed Frontline demonstrations		
g.		<b>FLD - Home Science (in ha/ no. of Unit/Enterprise) - Nil</b>		
➤		Proposed Frontline demonstrations		
➤		On Going Frontline demonstrations		
➤		Completed Frontline demonstrations		

## ii. Other Activities

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
1	Training programmes	No. of Course	Duration (days)	Participants
	Farmers	41	41	1107
	Farm women	10	10	283
	Rural youth	18	18	375
	Extension personnel/ In service	-	-	-
	Vocational trainings	-	-	-
	Sponsored Training	1	1	110
	<b>Total</b>	<b>70</b>	<b>70</b>	<b>1875</b>

		No. of programmes	Participants
<b>1</b>	<b>Extension Programmes</b>		
<b>3</b>	<b>Production of technology inputs etc</b>	<b>Qty</b>	<b>Beneficiaries (nos.)</b>
	Seed (qt.)	68.26	
	Planting material produced (nos.)	1364	
<b>4</b>	<b>Livestock</b>	<b>Qty</b>	<b>Beneficiaries (nos.)</b>
	Livestock strains ( Nos)	-	-
	Milk Yield - Cow, Buffelo etc. (in liter)	-	-
	Fish (Kg.)	-	-
	Fingerlings (nos.)	-	-
	Poultry-Eggs (nos.)	-	-
	Ducks (nos.)	-	-
	Chicks etc. (nos.)	-	-
<b>5</b>	<b>Bio Products</b>	<b>Qty</b>	<b>Beneficiaries (nos.)</b>
	Bio Agents -Earth worm (Kg.)	-	-
	Trichoderma (kg.)	-	-
	Bio Fertilizers- Vermi compost, Rhizobium, PSB , BGA , Mycorriza , Azotobacter , Azospirillum etc. (Kg.)	-	-
	Bio Pesticide-Panchgavya, Neem Extract , Neem oil etc.(lit.)	-	-
<b>6</b>	<b>Any other significant achievement in the Zone</b>	<b>Nos.</b>	<b>Participants/ beneficiaries</b>
	Award (Best KVK award and scientist and farmer's award)		
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)		
	KVK News letter		
	SAC Meetings conducted	1	15
	Soil sample tested	-	-
	Water sample tested	-	-
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)		
	KVK-KMA (Message sent and beneficiaries)	57	11166504
	Convergence programmes	-	-
	Sponsored programmes	1	110
	KVK Progressive Farmers interaction	3	13
	No. of Technology Week Celebrations	309	4768
	Attended HRD activities organized by ZPD	-	-

	Attended HRD activities organized by DES	4	11	
	Attended HRD activities by KVK Staff (Refresher/Short course, Training programme etc.)	-	-	
7	Current status of Revolving Funds (Amt. in Rs.)	446678.18		
8		<b>No. of blocks</b>	<b>No. of villages</b>	
	Outreach of KVK in the District	4	714	
9		<b>ICAR</b>	<b>SAU</b>	<b>Others</b>
	No. of important visitors to KVK (nos.)	1	32	13
10		<b>Working (Yes/No)</b>	<b>No. of Update</b>	
	Status of KVK Website	Yes	12	
11		<b>Application received</b>	<b>Application disposed</b>	
	Status of RTI (nos.)	2	2	
12		<b>Query received</b>	<b>Query dissolved</b>	
	Citizen Charter (nos.)	-	-	
13		<b>Filled</b>	<b>Vacant</b>	
	Staff Position	9	7	
14	Workshop/ Seminar/ Conference attended by staff of KVK ( nos)	-	-	
	Publication received from ICAR /other organization (nos.)	-	-	
16		<b>Particulars</b>	<b>Organization</b>	
	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)	-	-	
		<b>Nos. of Activities</b>	<b>Participants/ beneficiaries</b>	
17	Activities performed in Sansad Adarsh Gram	-	-	
18	Activities performed in DFI Village	<b>Nos. of Activities</b>	<b>Participants/ beneficiaries</b>	
		-	-	
19	Activities performed in Nutri Smart Village	<b>Nos. of Activities</b>	<b>Participants/ beneficiaries</b>	
	OFT	-	-	
	FLD	-	-	
	Trainings	-	-	
	Extension activities	-	-	
20	Current status of Contingency ( Amt. in Rs.)	329532.00		

# 1. GENERAL INFORMATION

## 1.1. Staff Position (as on date)

### Summary of Staff position in KVKs

Name of KVK	Sanctioned Posts	PC (1)		SMS (6)		PA (3)		Admn. (6)		Total	
		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
Bemetara	16	01	0	06	06	03	02	6	1	16	09

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specialization	Pay scale	Present pay	Date of joining	Category
<b>Bemetara</b>	Senior Scientist & Head	Vacant	-	-	-	-	-	-	-
	Subject Matter Specialist 1	Shri Toshan Kumar Thakur	Fisheries	M.F.Sc. (Inland Fisheries)	Fisheries	15600-39100 AGP-5400	26620	07/09/2012	ST
	Subject Matter Specialist 2	Dr. (Mrs.) Ekta Tamrakar	Entomology	Ph. D	Entomology	15600-39100 AGP-5400	25080	31/11/2014	OBC
	Subject Matter Specialist 3	Er. Jitendra Kumar Joshi	Form Machinery and Power Engineering	M. Tech.	Form Machinery and Power Engineering	15600-39100 AGP-5400	21000	05/10/2018	SC
	Subject Matter Specialist 4	Dr. (Mrs.) Vedhika Sahu	Soil Science & Agricultural Chemistry	Ph. D	Soil Science & Agricultural Chemistry	15600-39100 AGP-5400	21000	06/10/2018	OBC
	Subject Matter Specialist 5	Dr. Chetna Banjare	Horticulture	Ph. D	Horticulture	15600-39100 AGP-5400	21000	06/10/2018	SC
	Subject Matter Specialist 6	Dr. (Mrs.) Pragya Panday	Agronomy	Ph. D	Agronomy	15600-39100 AGP-5400	21000	26/10/2018	GEN
	Programme Assistant	Shri Shiv Kumar Sinha	Pro. Assi. (Com. )	M.A.	Pro. Assi. (Com. )	9300-34800 AGP- 4200	17130	03/05/2017	OBC
	Farm Manager	Dr. Hemant Sahu	Genetics and Plant breeding	Ph.D.	Genetics and Plant breeding	9300-34800 AGP- 4200	13500	04/03/2020	OBC
	Computer Programmer	Vacant	-	-	-	-	-	-	-
	Accountant / superintendent	Vacant	-	-	-	-	-	-	-
	Stenographer	Vacant	-	-	-	-	-	-	-
	Driver	Shri Panchu Ram Yadav	Driver	12 <sup>th</sup>	Driver	5200-20200 AGP- 1900	10550	12/05/2017	OBC
	Driver	Vacant	-	-	-	-	-	-	-



Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specialization	Pay scale	Present pay	Date of joining	Category
	Supporting staff	Vacant	-	-	-	-	-	-	-
	Supporting staff	Vacant	-	-	-	-	-	-	-

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

KVK Name	Agro-climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Bemetara	Plain	04	175	795759	70.58	144022	37185	186939

### 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)
Bemetara	Mauhabhatha	2018	Saja	45	888	207

### 1.4. THRUST AREAS identified by KVK

KVK Name	THRUST AREA
Bemetara	Capacity building of Rural Youth and women through vocational training for taking up of income generating activity through SHG.
	Developing farm management skills
	Empowerment of farm women and rural youth with skill enhancement
	Enhancing productivity of horticultural crops thorough crop diversification.
	Improvement of soil health though popularization of Organic Farming.
	Integrated Nutrient management in food and fruit crops.
	Market led extension
	Planting Pattern of Vegetables & Commercial Crops
	Popularizing of High Yielding varieties of Cereals, Oilseed, Pulses and vegetables
	Quality seed production programme.
	Direct seeding technology, laser levelling, use of paddy transplanted and zero/minimum till in rice-wheat/mustard cropping sequence
	Scientific Livestock Management with appropriate feeding, breeding and health management practices.
	Capacity building of Rural Youth and women through vocational training for taking up of income generating activity through SHG.
Developing farm management skills	

### 1.5. PROBLEM IDENTIFIED by KVK

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
Bemetara	Imbalance use of fertilizer	During group discussion with farmers & visit	Mauhabhatha Khurusbod, Bundeli, kohakabod, mohgaon, Akalwara, Tendubhatha, Jamgaon, Budhwara, Sanakpat, Sanwatpur, Sarangpur, Semariya, Sendri Singhanpuri. Singpur
	Burning of Crop residues	During field visit	Mauhabhatha Khurusbod, Bundeli, kohakabod, mohgaon, Akalwara, Tendubhatha, Jamgaon, Budhwara, Sanakpat, Sanwatpur, Sarangpur, Semariya, Sendri Singhanpuri. Singpur
	Poor yield due to local seed and planting material	During group discussion with farmers & visit	Mauhabhatha Khurusbod, Bundeli, kohakabod, mohgaon, Akalwara, Tendubhatha, Jamgaon, Budhwara, Sanakpat, Sanwatpur, Sarangpur, Semariya, Sendri Singhanpuri. Singpur
	No Use of improves implements	During group discussion with farmers & visit	Mauhabhatha Khurusbod, Bundeli, kohakabod, mohgaon, Akalwara, Tendubhatha, Jamgaon, Budhwara, Sanakpat, Sanwatpur, Sarangpur, Semariya, Sendri Singhanpuri. Singpur
	Incidence of fruit borer in Tomato and infestation of Leaf curl virus in tomato.	During group discussion with farmers	Mauhabhatha Khurusbod, Bundeli, kohakabod, mohgaon, Akalwara, Tendubhatha, Jamgaon, Budhwara, Sanakpat, Sanwatpur, Sarangpur, Semariya, Sendri Singhanpuri. Singpur
	Poor yield in Soybean due to severe incidence of Girdle beetle and infestation of Tobacco Cater pillar.	During group discussion with farmers	Mauhabhatha Khurusbod, Bundeli, kohakabod, mohgaon, Akalwara, Tendubhatha, Jamgaon, Budhwara, Sanakpat, Sanwatpur, Sarangpur, Semariya, Sendri Singhanpuri. Singpur
	Poor yield in Soybean due to severe weed problem.	During group discussion with farmers	Mauhabhatha Khurusbod, Bundeli, kohakabod, mohgaon, Akalwara, Tendubhatha, Jamgaon, Budhwara, Sanakpat, Sanwatpur, Sarangpur, Semariya, Sendri Singhanpuri. Singpur
	Un employment of rural youth and women	During group discussion with farmers & visit	Mauhabhatha Khurusbod, Bundeli, kohakabod, mohgaon, Akalwara, Tendubhatha, Jamgaon, Budhwara, Sanakpat, Sanwatpur, Sarangpur, Semariya, Sendri Singhanpuri. Singpur

## 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 egg plant/bhata/baigan etc.
- ❖ Don't press enter key to navigate among column use arrow or tab key
- ❖ don't add space before or after statement within the table cell
- ❖ 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
<b>OFT/FLD on Crops</b>	
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/m <sup>2</sup>
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 <sup>2</sup>
	No of Panicles/m <sup>2</sup>
	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 (%)
<b>OFT/FLD on Agriculture Engineering</b>	
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 m <sup>2</sup>
	tillers/plant
	water inefficiency
	irrigation efficiency
<b>OFT/FLD on Animal Science</b>	
<b>Animal Feed / Fodder Management</b>	<b>Milk yield (Lit/day/animal)</b>
<b>Animal Disease Management</b>	<b>Change in body weight(kg)</b>
<b>Animal Nutrition Management</b>	<b>Egg Production/bird/year</b>
<b>Livestock production &amp; management</b>	<b>% decrease in Worm</b>
<b>Animal breed evaluation</b>	<b>Parasite control (%)</b>
<b>Poultry Production and management</b>	<b>Body weight at 6 month (kg/goat)</b>
	<b>Parasite infestation (%)</b>
	<b>Live weight (kg/bird) at 3 Month</b>
	<b>Growth Rate (90 days)</b>
	<b>Yield q/ha (Fodder)</b>
	<b>Mortality %</b>
	<b>Feed intake(%)</b>
	<b>Disease infestation(%)</b>
<b>OFT/FLD on Fisheries</b>	
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:

<b>Name of Discipline</b> (like Agronomy/Horticulture/ Soil Science/Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	<b>Plant Protection</b>
<b>Title of on-farm trial:</b>	<b>Assessment of IPM modules against disease &amp; pest of Tomato</b>
<b>Year/Season:</b>	Kharif 2020
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Assessment of IPM modules against disease & pest of Tomato
<b>Thematic area:</b>	Plant Protection
<b>No of trials:</b>	06
<b>No. of farmers involved</b>	06
<b>Type of OFT (Assessment/ Refinement):</b>	<b>Assessment</b>
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Use only chemical
T2 –Recommended Practice-	Seed & soil treatment with trichoderma, Pheromone trap @25/hac, Spray HaNPV @250LE at 28 ,32 & 42 days after transplanting, Need based spray of Indoxacarb 14.5%SC
T3- Recommended Practice-	-
<b>Date of sowing:</b>	04.08.2020
<b>Date of harvesting:</b>	10.12.2020
<b>Source of technology:</b>	IGKV, Raipur
<b>Characteristics of technology:</b>	Manage the insect population through integrated pest management technique
<b>Name of Crop/Enterprises:</b>	Tomato
<b>Recommendations for Farmers</b>	Use IPM technique
<b>Recommendations for Deptt. Personnel</b>	Use IPM technique
<b>Feedback</b>	Farmer is happy and ready to adopt this technology

**Result :** (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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)	No. of damaged fruits per plant 13	248	88900.00	198400.00	109500.00	2.21
T2(Recommended Practice)	06	301.5	92850.00	241200.00	148350.00	2.59
T3(Recommended Practice)	-	-	-	-	-	-

<b>Name of Discipline</b>	<b>Plant Protection</b>
<b>Title of on-farm trial:</b>	<b>Assessment of IPM modules against disease &amp; pest of Brinjal</b>
<b>Year/Season:</b>	Rabi 2020
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Assessment of IPM modules against disease & pest of Brinjal
<b>Thematic area:</b>	Plant Protection
<b>No of trials:</b>	06
<b>No. of farmers involved</b>	06
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Not use insecticide at proper time and appropriate dose.
T2 –Recommended Practice-	Use of pheromone trap@25/hac , spray NSKE 4% at 10 days interval ,Need based spray of Spinosad 45 sc @175 ml /hac
T3- Recommended Practice-	-
<b>Date of sowing:</b>	08.12.2019
<b>Date of harvesting:</b>	25.03.2020
<b>Source of technology:</b>	IGKV, Raipur
<b>Characteristics of technology:</b>	Manage the insect population through integrated pest management technique
<b>Name of Crop/Enterprises:</b>	Brinjal
<b>Recommendations for Farmers</b>	Use IPM technique
<b>Recommendations for Deptt. Personnel</b>	Use IPM technique
<b>Feedback</b>	Farmer is happy and ready to adopt this technology

**Result :** (Economic Performance of OFT) :-Ongoing

<b>Details of technology</b>	<b>Name and Unit of Parameter</b>	<b>Result</b>	<b>Average Cost of cultivation (Rs/ha)</b>	<b>Average Gross Return (Rs/ha)</b>	<b>Average Net Return (Rs/ha)</b>	<b>Benefit-Cost Ratio (Gross Return / Gross Cost)</b>
T1 (Farmers Practice)	No. of damaged fruits per plant 07	318	80200.00	190800.00	110600.00	2.37
T2(Recommended Practice)	03	385	82150.00	231000.00	148850.00	2.82
T3(Recommended Practice)	-	-	-	-	-	-

<b>Name of Discipline</b>	Agri Engineering
<b>Title of on-farm trial:</b>	Assessment of inclined plate planter for wheat sowing on farmers field.
<b>Year/Season:</b>	Rabi 2019-20
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	More seed rate
<b>Thematic area:</b>	Resource conservation technology
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Seed cum-fertilizer drill sowing
T2 –Recommended Practice-	inclined plate planter sowing
T3- Recommended Practice-	-
<b>Date of sowing:</b>	15.12.2019
<b>Date of harvesting:</b>	10.03.2020
<b>Source of technology:</b>	IGKV, Raipur
<b>Characteristics of technology:</b>	Advance sowing machine
<b>Name of Crop/Enterprises:</b>	Wheat
<b>Recommendations for Farmers</b>	Sowing of wheat from inclined plate planter machine
<b>Recommendations for Deptt. Personnel</b>	Sowing of wheat from inclined plate planter machine
<b>Feedback</b>	Farmer is happy and ready to adopt this technology

**Result :** (Economic Performance of OFT)

<b>Details of technology</b>	<b>Name and Unit of Parameter</b>	<b>Result</b>	<b>Average Cost of cultivation (Rs/ha)</b>	<b>Average Gross Return (Rs/ha)</b>	<b>Average Net Return (Rs/ha)</b>	<b>Benefit-Cost Ratio (Gross Return / Gross Cost)</b>
T1 (Farmers Practice)	Seed rate 140	19	17200.00	36575.00	19375.00	2.1
T2(Recommended Practice)	100	24	16000.00	46800.00	330800.00	2.92
T3(Recommended Practice)	-	-	-	-	-	-

<b>Name of Discipline</b> (like Agronomy/Horticulture/ Soil Science/Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering
<b>Title of on-farm trial:</b>	<b>Assessment of animal drawn five row chickpea planter.</b>
<b>Year/Season:</b>	<i>Rabi</i> -2019-20
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	More seed rate in broadcasting and also seed to seed distance is not maintained. Animals are not much used for sowing operation
<b>Thematic area:</b>	AEG
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Broadcasting
T2 –Recommended Practice-	Animal drawn chickpea planter sowing
T3- Recommended Practice-	-
<b>Date of sowing:</b>	02.12.2019
<b>Date of harvesting:</b>	12.03.2020
<b>Source of technology:</b>	IGKV, Raipur
<b>Characteristics of technology:</b>	Advance sowing machine
<b>Name of Crop/Enterprises:</b>	Chick pea
<b>Recommendations for Farmers</b>	sowing of chickpea Animal drawn planter
<b>Recommendations for Deptt. Personnel</b>	Sowing of wheat from inclined plate planter machine
<b>Feedback</b>	Farmer is happy and ready to adopt this technology

**Result :** (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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)	Seed rate 80	5.4	22300.00	23760.00	1460.00	2.1
T2(Recommended Practice)	60	7.8	21650.00	34320.00	12670.00	2.92
T3(Recommended Practice)	-	-	-	-	-	-



<b>Name of Discipline</b> (like Agronomy/Horticulture/ Soil Science/Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Fisheries
<b>Title of on-farm trial:</b>	<b>Assessment of probiotics on growth and survival of fish in composite fish farming</b>
<b>Year/Season:</b>	Kharif & Rabi, 2021
<b>Farming situation:</b>	
<b>Problem diagnosis:</b>	Low production & survival
<b>Thematic area:</b>	Fish production management
<b>No of trials:</b>	04
<b>No. of farmers involved</b>	04
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	No use of probiotics
T2 –Recommended Practice-	Application of probiotics
T3- Recommended Practice-	
<b>Date of sowing:</b>	
<b>Date of harvesting:</b>	
<b>Source of technology:</b>	College of fisheries OUT, 2007
<b>Characteristics of technology:</b>	Use of probiotics @ 1 Kg. per hac. In 15 days interval
<b>Name of Crop/Enterprises:</b>	
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	Shri Toshan Kumar Thakur , SMS (Fisheries)
<b>Feedback</b>	

**Result :** (Economic Performance of OFT) Ongoing

Details of technology	Name and Unit of Parameter	Result	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)						
T2(Recommended Practice)						
T3(Recommended Practice)						

<b>Name of Discipline</b> (like Agronomy/Horticulture/ Soil Science/Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Fisheries
<b>Title of on-farm trial:</b>	<b>Assessment of micro nutrients to increase productivity of fish pond</b>
<b>Year/Season:</b>	Kharif & Rabi, 2020-21
<b>Farming situation:</b>	
<b>Problem diagnosis:</b>	Low fish production
<b>Thematic area:</b>	Pond t Management
<b>No of trials:</b>	04
<b>No. of farmers involved</b>	04
<b>Type of OFT (Assessment/ Refinement):</b>	<b>Assessment</b>
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	No use of micro nutrient
T2 –Recommended Practice-	Application of micro nutrient
T3- Recommended Practice-	
<b>Date of sowing:</b>	
<b>Date of harvesting:</b>	
<b>Source of technology:</b>	OUAT 2014
<b>Characteristics of technology:</b>	use of micro nutrient @ 2.5 Kg/hectare
<b>Name of Crop/Enterprises:</b>	
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	Shri Toshan Kumar Thakur , SMS (Fisheries)
<b>Feedback</b>	

**Result :** (Economic Performance of OFT) **Ongoing**

<b>Details of technology</b>	<b>Name and Unit of Parameter</b>	<b>Result</b>	<b>Average Cost of cultivation (Rs/ha)</b>	<b>Average Gross Return (Rs/ha)</b>	<b>Average Net Return (Rs/ha)</b>	<b>Benefit-Cost Ratio (Gross Return / Gross Cost)</b>
T1 (Farmers Practice)						
T2(Recommended Practice)						
T3(Recommended Practice)						

<b>Name of Discipline</b> (like Agronomy/Horticulture/ Soil Science/Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
<b>Title of on-farm trial:</b>	<b>Assessment of performance of new rice variety RRF-105</b>
<b>Year/Season:</b>	2020/Kharif
<b>Farming situation:</b>	Un-irrigated
<b>Problem diagnosis:</b>	<b>Lower yield of local Rice variety under farmers' cultivation</b>
<b>Thematic area:</b>	<b>Varietal assessment</b>
<b>No of trials:</b>	4
<b>No. of farmers involved</b>	4
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Cultivation of MTU 1010
T2 –Recommended Practice-	Cultivation of RRF-105
T3- Recommended Practice-	-
<b>Date of sowing:</b>	07-07-2020
<b>Date of harvesting:</b>	24-10-2020
<b>Source of technology:</b>	IGKV Raipur
<b>Characteristics of technology:</b>	<b>Varietal Evaluation</b>
<b>Name of Crop/Enterprises:</b>	Rice
<b>Recommendations for Farmers</b>	Farmers can replace MTU 1010 with RRF 105, as this variety is of same duration and hardy in nature with good yield under stress condition
<b>Recommendations for Deptt. Personnel</b>	Variety is suitable for Bemetara condition, stress tolerant, disease resistant
<b>Feedback</b>	Farmers of this area wanted a <b>short duration variety with higher yield</b> so that they can fetch good price in early market of season. RRF 105 fulfilled their need.

**Result :** (Economic Performance of OFT)

<b>Details of technology</b>	<b>Name and Unit of Parameter</b>	<b>Result</b>	<b>Average Cost of cultivation (Rs/ha)</b>	<b>Average Gross Return (Rs/ha)</b>	<b>Average Net Return (Rs/ha)</b>	<b>Benefit-Cost Ratio (Gross Return / Gross Cost)</b>
T1 (Farmers Practice)	1. No. of tillers 2. Grains per panicle 3. Grain yield	1-2 60 25.5 q/ha	24000	47557.5	23557.5	0.98
T2(Recommended Practice)	1. No. of tillers 2. Grains per panicle 3. Grain yield	1-2 71 30.5 q/ha	24000	56882.5	32882.5	1.37

T3(Recommended Practice)	-	-	-	-	-	-
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<b>Name of Discipline</b>	Agronomy
<b>Title of on-farm trial:</b>	<b>Assessment of fodder crop production round the year in Bemetara</b>
<b>Year/Season:</b>	2020/Kharif
<b>Farming situation:</b>	Un-irrigated
<b>Problem diagnosis:</b>	No use of green fodder for cattle and no area of fodder crops
<b>Thematic area:</b>	<b>Crop production</b>
<b>No of trials:</b>	4
<b>No. of farmers involved</b>	4
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	No. cultivation of fodder crop
T2 –Recommended Practice-	Cultivation of Maize+ Cowpea in Kharif
T3- Recommended Practice-	-
<b>Date of sowing:</b>	03-07-2020
<b>Date of harvesting:</b>	10-9-2020 (Maize), 1-9-2020 (Cowpea)
<b>Source of technology:</b>	IGKV Raipur
<b>Characteristics of technology:</b>	<b>Fodder crop production</b>
<b>Name of Crop/Enterprises:</b>	Maize+ cowpea
<b>Recommendations for Farmers</b>	Farmer should adopt fodder production to feed green fodders to their milking animals. Intercropping of fodder crops with legumes (Vegetables) not only gives fodder yield but also additional income through vegetable selling.
<b>Recommendations for Deptt. Personnel</b>	Intercropping is beneficial for fodder crop
<b>Feedback</b>	Farmers are willing to grow fodder crops in future.

**Result :** (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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)		0	0	0	0	0
T2(Recommended Practice)	1. Plant height of maize 2. no. of leaves of maize 3. Fodder yield 3. No. of fruits per plant 4. Cowpea yield	155 11 150 q/ha 80 8 q/ha	20000	45000		

				24000 (Cowpea)	49000	2.45
T3(Recommended Practice)	-	-	-	-	-	-

<b>Name of Discipline</b>	Agronomy
<b>Title of on-farm trial:</b>	<b>Assessment of scientific package and practice for cotton in Bemetara agro-climatic condition</b>
<b>Year/Season:</b>	2020/Kharif
<b>Farming situation:</b>	irrigated
<b>Problem diagnosis:</b>	<b>Non judicious agronomical practice and fertilizer use on cotton</b>
<b>Thematic area:</b>	<b>Crop production</b>
<b>No of trials:</b>	4
<b>No. of farmers involved</b>	4
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	<b>Non judicious agronomical practice and fertilizer use on cotton</b>
T2 –Recommended Practice-	<b>Scientific package and practice for cotton production</b>
T3- Recommended Practice-	-
<b>Date of sowing:</b>	25-06-2020
<b>Date of harvesting:</b>	Harvesting is going on. One picking has been done, two more is left.
<b>Source of technology:</b>	ICAR
<b>Characteristics of technology:</b>	<b>Crop production</b>
<b>Name of Crop/Enterprises:</b>	Cotton
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

**Result :** (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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)	1. Plant height	138.2 cm	57500	-	0	0
	2. Number of branches	27				
	3. Number of balls	148				
T2(Recommended Practice)	1. Plant height	153.8	57500	-		
	2. Number of branches	35				
	3. Number of balls	158				

					49000	2.45
T3(Recommended Practice)	-	-	-	-	-	-

<b>Name of Discipline</b>	Agronomy
<b>Title of on-farm trial:</b>	<b>Enhancement of chickpea yield through wider row to row spacing</b>
<b>Year/Season:</b>	2019-20/Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	<b>Lower yield of chickpea due to lower row to row spacing</b>
<b>Thematic area:</b>	<b>Crop geometry</b>
<b>No of trials:</b>	4
<b>No. of farmers involved</b>	4
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Row to row spacing 22.5 cm
T2 –Recommended Practice-	Row to row spacing 45 cm
T3- Recommended Practice-	-
<b>Date of sowing:</b>	04-11-2019
<b>Date of harvesting:</b>	25-02-2020
<b>Source of technology:</b>	IGKV Raipur
<b>Characteristics of technology:</b>	<b>Crop production</b>
<b>Name of Crop/Enterprises:</b>	Chickpea
<b>Recommendations for Farmers</b>	Wider row spacing in chickpea promotes branching and increases number of pods per plant
<b>Recommendations for Deptt. Personnel</b>	Wider row spacing is suitable for Bemetara district and it allows nipping process.
<b>Feedback</b>	Farmers are willing to grow chickpea at wider row in future.

**Result :** (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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)	1. Pods per plant	65	25000	- (Crop was good up-to flowering stage but failed due to continuous rain and hailstorm)	-	-
T2(Recommended Practice)	1. Pods per plant	100	25000	-(Crop was good up-to flowering stage but failed due to continuous rain and hailstorm)	-	-
T3(Recommended Practice)	-	-	-	-	-	-

<b>Name of Discipline</b>	Agronomy
<b>Title of on-farm trial:</b>	<b>Effect of Seed treatment of Wheat with Azotobacter</b>
<b>Year/Season:</b>	2019-20/Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	<b>Unawareness about use of nitrogen fixing bacterial culture in wheat crop</b>
<b>Thematic area:</b>	<b>INM</b>
<b>No of trials:</b>	4
<b>No. of farmers involved</b>	4
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Seed treatment with fungicide only + 100:60:40 kg/ha N:P:K
T2 –Recommended Practice-	Seed treatment with fungicide + Azotobacter + 100:60:40 kg/ha N:P:K
T3- Recommended Practice-	-
<b>Date of sowing:</b>	10-11-2019
<b>Date of harvesting:</b>	15-.3-2020
<b>Source of technology:</b>	IGKV Raipur
<b>Characteristics of technology:</b>	<b>Seed treatment</b>
<b>Name of Crop/Enterprises:</b>	Wheat
<b>Recommendations for Farmers</b>	<b>Wheat seed treated with Azotobacter led to better vegetative growth as well as yield of plants.</b>
<b>Recommendations for Deptt. Personnel</b>	<b>Wheat seed should be treated with Azotobacter led to better vegetative growth as well as yield of plants.</b>
<b>Feedback</b>	<b>Farmer was satisfied with the use of Azotobacter for seed treatment and willing to continue the use.</b>

<b>Details of technology</b>	<b>Name and Unit of Parameter</b>	<b>Result</b>	<b>Average Cost of cultivation (Rs/ha)</b>	<b>Average Gross Return (Rs/ha)</b>	<b>Average Net Return (Rs/ha)</b>	<b>Benefit-Cost Ratio (Gross Return / Gross Cost)</b>
T1 (Farmers Practice)	1. No. of tillers	5-6	20000	38000	18000	0.90
T2(Recommended Practice)	1. No. of tillers	6-7	20000	42750	22600	1.12
T3(Recommended Practice)	-	-	-	-	-	-



<b>Name of Discipline</b> (like Agronomy/Horticulture/ Soil Science/Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
<b>Title of on-farm trial:</b>	<b>Weed management through herbicides in Chickpea</b>
<b>Year/Season:</b>	2019-20/Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	<b>Yield reduction due to weed infestation</b>
<b>Thematic area:</b>	<b>Weed management</b>
<b>No of trials:</b>	4
<b>No. of farmers involved</b>	4
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	<b>One hand weeding at 30 DAS</b>
T2 –Recommended Practice-	<b>Pendimethalin 37.8 CS (0-3 days after sowing) @ 700 mg / acre followed by Quizalofop-ethyl @320-400 mg/ acre at 15-20 days after sowing</b>
T3- Recommended Practice-	<b>Oxyfluorfen @40-50 g a.i. / acre (0-3 days after sowing)</b>
<b>Date of sowing:</b>	04-11-2019
<b>Date of harvesting:</b>	Crop failed
<b>Source of technology:</b>	IGKV Raipu
<b>Characteristics of technology:</b>	<b>Chemical Weed Management</b>
<b>Name of Crop/Enterprises:</b>	Chickpea
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

Details of technology	Name and Unit of Parameter	Result	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)	1. Weed index	Crop was good upto flowering stage but after that due to continuous rain and hailstorm crop destroyed and negligible yield (40-50 kg/acre) was obtained.	-	-	-	-
T2(Recommended Practice)	1. Weed index		-	-	-	-
T3(Recommended Practice)	-		-	-	-	-

<b>Name of Discipline</b>	Soil Science
<b>Title of on-farm trial:</b>	Assessment of STCR based nutrient management in soybean
<b>Year/Season:</b>	Kharif
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Farmers are not aware about the soil test based fertilizer recommendation and they are non judiciously using the chemical fertilizers resulting in soil health deterioration
<b>Thematic area:</b>	Nutrient Management
<b>No of trials:</b>	4
<b>No. of farmers involved</b>	4
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Imbalance nutrient application
T2 –Recommended Practice-	1. Nutrient recommendation based on Soil health card report 2. Variety- CG-Soya-1 3. Use of secondary nutrient Sulphur along with major nutrient.
T3- Recommended Practice-	-
<b>Date of sowing:</b>	7/07/2020
<b>Date of harvesting:</b>	19/10/2020
<b>Source of technology:</b>	IGKV Raipur
<b>Characteristics of technology:</b>	Introduction of soil test based sulphur recommendation in oilseed crops as sulphur is deficient in soils of Bemetara district.
<b>Name of Crop/Enterprises:</b>	Soybean
<b>Recommendations for Farmers</b>	Farmers can use sulphur @ 10 kg /ha nutrient in oilseed crop as it increases the oil content in crop
<b>Recommendations for Deptt. Personnel</b>	This nutrient recommendation is suggested after soil testing and knowing after the status of nutrient in soil.
<b>Feedback</b>	Farmers are happy after adopting this soil test based fertilizer recommendation as it is more judicious and economical. Farmers are unaware about the use of sulphur in soybean crop.

### Result : (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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)	1.No. of pod/plant 2. No of grain/pod 3. Yield (q/ha)	110 3 14	23500	51800	27300	1.11
T2(Recommended Practice)	1.No. of pod/plant 2.No. of grain/pod 3. Yield (q/ha)	145 2.5 11	23000	40700	17700	0.76
T3(Recommended Practice)	-	-	-	-	-	-

<b>Name of Discipline</b>	Soil Science
<b>Title of on-farm trial:</b>	Assessment of STCR based nutrient management in soybean
<b>Year/Season:</b>	Kharif
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Farmers are not aware about the soil test based fertilizer recommendation and they are non judiciously using the chemical fertilizers resulting in soil health deterioration
<b>Thematic area:</b>	Nutrient Management
<b>No of trials:</b>	4
<b>No. of farmers involved</b>	4
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Imbalance nutrient application
T2 –Recommended Practice-	Integrated nutrient management under rice based on soil test crop response studies (STCR) Variety – Mahamaya
T3- Recommended Practice-	-
<b>Date of sowing:</b>	8/07/2020
<b>Date of harvesting:</b>	15/11/2020
<b>Source of technology:</b>	IGKV Raipur
<b>Characteristics of technology:</b>	Soil test based fertilizer recommendation in rice crop.
<b>Name of Crop/Enterprises:</b>	Rice
<b>Recommendations for Farmers</b>	Farmers can use soil test based nutrient in rice crop
<b>Recommendations for Deptt. Personnel</b>	This nutrient recommendation is suggested after soil testing and knowing after the status of nutrient in soil.
<b>Feedback</b>	Farmers are happy after adopting this soil test based fertilizer recommendation as it is more judicious and economical.

Details of technology	Name and Unit of Parameter	Result	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)	1.Plant height 2. No of tillers/plant 3. Yield (q/ha)	87 5 35.45	25000	61085	36085	1.44
T2(Recommended Practice)	1 Plant height 2.No. of tillers/plant 3. Yield (q/ha)	104 6 42	25000	73600	48600	1.94
T3(Recommended Practice)						

<b>Name of Discipline</b>	Soil Science
<b>Title of on-farm trial:</b>	Soil health card based balanced fertilizer application in chickpea
<b>Year/Season:</b>	Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Farmers are not aware about the soil test based fertilizer recommendation and they are non judiciously using the chemical fertilizers resulting in soil health deterioration
<b>Thematic area:</b>	Nutrient Management
<b>No of trials:</b>	4
<b>No. of farmers involved</b>	4
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Imbalance nutrient application
T2 –Recommended Practice-	20:40:10:30 NPKS Kg/ha as Neem coated urea, SSP & MOP
T3- Recommended Practice-	-
<b>Date of sowing:</b>	5/12/2019
<b>Date of harvesting:</b>	28/03/2020
<b>Source of technology:</b>	IGKV Raipur
<b>Characteristics of technology:</b>	Introduction of soil test based sulphur recommendation in chickpea as sulphur is deficient in soils of Bemetara district.
<b>Name of Crop/Enterprises:</b>	Chickpea
<b>Recommendations for Farmers</b>	Farmers can use balanced fertilizer chickpea as it is more economical and maintain the soil health
<b>Recommendations for Deptt. Personnel</b>	Imbalance nutrient application
<b>Feedback</b>	20:40:10:30 NPKS Kg/ha as Neem coated urea, SSP & MOP

### Result : (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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)	1 Yield (q/ha)	Crop failed	25000	-	-	-
T2(Recommended Practice)	1 Yield (q/ha)	Crop failed	23883.8	-	-	-
T3(Recommended Practice)	-	-	-	-	-	-

\* Crop was good up to flowering stage but after that due to continuous rain and hailstorm crop destroyed and negligible yield was obtained.

<b>Name of</b>	Soil Science
<b>Title of on-farm trial:</b>	Assessment of Kisan city compost with recommended dose of fertilizer in chick-pea
<b>Year/Season:</b>	Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	No uses of organic manures and depletion of soil health & fertility
<b>Thematic area:</b>	Soil Health and fertility management
<b>No of trials:</b>	4
<b>No. of farmers involved</b>	4
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Use of only chemical fertilizers
T2 –Recommended Practice-	Incorporation of Kisan city compost @ 3.75 tonnes/ha
T3- Recommended Practice-	-
<b>Date of sowing:</b>	5/12/2019
<b>Date of harvesting:</b>	28/03/2020
<b>Source of technology:</b>	IGKV Raipur
<b>Characteristics of technology:</b>	Soil health card based fertilizer recommendation in chickpea crop.
<b>Name of Crop/Enterprises:</b>	Chickpea
<b>Recommendations for Farmers</b>	Farmers can use Kisan city compost @ 3.75 tonnes/ha in chickpea crop
<b>Recommendations for Deptt. Personnel</b>	The use of Kisan city compost results in soil health improvement and increases fertility of soil.
<b>Feedback</b>	Farmers are happy after adopting this kisan city compost recommendation as it helps to improve the organic carbon content in soil.

### Result : (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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)	1.Yield (q/ha)	Crop failed	25000	-	-	-
T2(Recommended Practice)	1. Yield (q/ha)	Crop failed	35008.8	-	-	-
T3(Recommended Practice)						

Crop was good up to flowering stage but after that due to continuous rain and hailstorm crop destroyed and negligible yield was obtained.

<b>Name of</b>	Horticulture
<b>Title of on-farm trial:</b>	Additional income generation through crops grown on rice field bund
<b>Year/Season:</b>	Kharif-2019-20
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	No uses of Bund
<b>Thematic area:</b>	Additional income generation
<b>No of trials:</b>	6
<b>No. of farmers involved</b>	6
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	No uses of Bund
T2 –Recommended Practice-	Seasonal horticultural (chili and cluster bean) crops grown on rice bund
T3- Recommended Practice-	-
<b>Date of sowing:</b>	06/08/2019
<b>Date of harvesting:</b>	10/11/2020
<b>Source of technology:</b>	IGKV Raipur
<b>Characteristics of technology:</b>	Cropping pattern on bund
<b>Name of Crop/Enterprises:</b>	chili and cluster bean
<b>Recommendations for Farmers</b>	Additional income generation through seasonal vegetables growing in rice bund.
<b>Recommendations for Deptt. Personnel</b>	Additional income generation through seasonal vegetables growing in rice bund.
<b>Feedback</b>	Farmers are happy after adopting this technology.

**Result :** (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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	0.00	0.00	0.00	0.00	0.00
T2(Recommended Practice)	Yield	1.15	25,750.00	65,000.00	39,250.00	2.52
T3(Recommended Practice)	-	-	-	-	-	-

<b>Name of</b>	Horticulture
<b>Title of on-farm trial:</b>	Effect of waste decomposer on Banana yield by Fustigation techniques under drip irrigation
<b>Year/Season:</b>	<i>Kharif 2019-20</i>
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Excessive use of chemical fertilizers in Banana
<b>Thematic area:</b>	<b>Integrated nutrient management</b>
<b>No of trials:</b>	6
<b>No. of farmers involved</b>	6
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	100% RDF
T2 –Recommended Practice-	60% RDF + Waste decomposer @ 200 liters per acre at 10 days interval
T3- Recommended Practice-	-
<b>Date of sowing:</b>	12/08/2019
<b>Date of harvesting:</b>	28/11/2020
<b>Source of technology:</b>	IGKV Raipur
<b>Characteristics of technology:</b>	Fertigation techniques under drip irrigation with waste decomposer
<b>Name of Crop/Enterprises:</b>	Banana
<b>Recommendations for Farmers</b>	Fertigation techniques under drip irrigation with waste decomposer increase fruit yield but also increase cost of cultivation.
<b>Recommendations for Deptt. Personnel</b>	Fertigation techniques under drip irrigation with waste decomposer increase fruit yield but also increase cost of cultivation.
<b>Feedback</b>	Farmers are happy after adopting this technology.

**Result :** (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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	28.2	56,000.00	1,41,000.00	85,000.00	2.51
T2(Recommended Practice)	Yield	29.7	36,200.00	1,48,000.00	1,11,800.00	4.08
T3(Recommended Practice)	-	-	-	-	-	-

## 2.2. Information about Extension OFT: Nil

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	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)

## 2.3. Information about Home Science OFT: Nil

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 <sub>1</sub> (Farmers Practices)							
T <sub>2</sub> (Recommended Practices)							
T <sub>3</sub> (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 <sub>1</sub> (Farmers Practices)						
T <sub>2</sub> (Recommended Practices)						
T <sub>3</sub> (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 <sub>1</sub> (Farmers Practices)						
T <sub>2</sub> (Recommended Practices)						
T <sub>3</sub> (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 <sub>1</sub> (Farmers Practices)									
T <sub>2</sub> (Recommended Practices)									
T <sub>3</sub> (Recommended Practices)									

### 3. Achievements of Frontline Demonstrations (FLD)

#### 3.1 Details of FLDs on Crop implemented during Jan-2020 to Dec-2020

KVK Name	Year	Season	Discipline (Agronomy/Horticulture/ Soil Science/Plant Protection/Plant Breeding/ Agroforestry)	The matic area	Technology demonstrated	Crop Category	Name of Crop	Name of Variety	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/On going	Crop-Area (ha)	Results (q/ha)		% change	No. of farmers				
												FP (T <sub>1</sub> )	RP (T <sub>2</sub> )		SC	ST	Others	General	Total
Bem etar	2020	Rabi	Plant protection	IPM	Demonstration of IPM modules against insect pest of Chick Pea	Pulses	Chick pea	Vaibhav	Irrigated	Completed	4	5.6	7.8	28.20	0	0	10	0	10
Bem etar	2020	Rabi	Plant protection	IPM	Demonstration of IPM modules against insect pest of Chick Pea	Pulses	Pigpen pea	Rajiv lochan	Irrigated	Completed	4	7.65	9.2	16.84	0	0	10	0	10
Bem etar	2020	Kharif	Plant protection	Pest management (Insect + diseases)	Demonstration of mixed formulation of Flubendamide 3.5% + Hexaconazole 5% wg against stem borer, leaf folder, case worm and sheath blight	Cereal	Paddy	Swarna	Irrigated	Completed	4	43.8	50.5	13.26	2	0	06	02	10
Be met ara	2020 - 21	Kharif	Agronomy	Cropping geometry	Wider row spacing	Oilseed	Soybean	CG Soya -1	Un-irrigated	Completed	1.6	9.5	11	15	15.7% and 57.89	0	0	0	4

Be met ara	20 20 - 21	Rabi	Agronomy	Vari etal Asses sment	Varietal introductio n	Cereaa l	Wh eat	CG Amb er Whe at	Irrigated	Comple ted	1.6	34	40	17.6 4	0	0	4	0	4
Be met ara	20 20	khari f	Soil Science	Nutr ient man age ment	-	Cereaa l	Rice	Indir a Rajeshw ari	Irrigated	Comple ted	1.6	42.5	45	5.8			4	-	4
Be met ara	20 20	Rabi	Soil Science	Nutr ient man age ment	-	Oilsee d	Lins eed	Dee pika	Irrigated	Comple ted	1.6	2.9	3.6	24.1 3			4	-	4
Be met ara	20 20 - 21	Khar if	Horticulture	Crop Dive rsificatio n	Awareness of nutritional Kitchen garden	veget ables	Kitc hen gar den	-	semi- irrigated	Comple ted	0.2 ha	6.00	15.00	200	-	-	06	04	10
Be met ara	20 20 - 21	Rabi	Horticulture	Inte grat ed Nutr ient Man age ment	RDF along with Boron application in Cauliflower	Veget able	Cau liflo wer	-	rainfed	Comple ted	2.0 ha	180	-	220		22 .2 2	-	-	-

### 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 <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )
Bemetara	Demonstration of IPM modules against insect pest of Chick Pea	Chick pea	% pod damage	27.36	11.38	18500.00	19200.00	30800.00	42900.00	12300.00	23700.00	1.67	2.23
Bemetara	Demonstration of IPM modules against insect pest of Chick Pea	Pigpen pea	% pod damage	22.38	10.78	18120.00	19600.00	45900.00	55200.00	27780.00	35600.00	2.53	2.81
Bemetara	Demonstration of mixed formulation of Flubendamide 3.5% + Hexaconazole 5% wg against stem borer, leaf folder, case worm and sheath blight	Paddy	Stem borer infestation %, Leaf folder infestation %, Diseases severity % sheath blight	23.11, 7.42, 24.2	12.89, 3.67, 18.19	30125.00	32776.00	81818.40	94334.00	51693.40	61558.00	2.71	2.87
Bemetara	Wider row spacing under crop geometry	Soybean	1. No. of branches 2. No. of pods 3. Yield	2 42.5 9	5 65 11.5	8.5 147.5 15	25000	23625	22250	38000	44000	60000	13000
Bemetara	<b>Varietal introduction</b>	Wheat	1. Average number of tileers	5-6	6-7	22000	22000	64600	76000	42600	54000	1.94	2.45
Bemetara	INM	Rice	1.No. of tillers per plant 2. Yield (q/ha)	15 42.5	18 45	24000	24000	99650	102900	75650	78900	3.15	3.28
Bemetara	INM	Linseed	1. Yield (q/ha)	2.9	3.6	15236	18250	31186	38050	15950	19800	1.04	1.08

Bemetara	Awareness of nutritional Kitchen garden	Kitchen garden	Per capita consumption (g/day/person)	120.00	208.20	2700	5000	9000	22500	6300	17500	2.33	3.50
Bemetara	RDF along with Boron application in Cauliflower	Cauliflower	Curd weight/plant, (gm)		345 gm		501 gm		71170		75000	180000	220000

### 3.3 Details of FLDs on Agriculture Engineering implemented during Jan-2020 to Dec-2020

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) / Enterprise - No.	Results (q/ha)		% change	No. of farmers				
											FP (T <sub>1</sub> )	RP (T <sub>2</sub> )		SC	ST	Others	General	Total
Bemetara	2020	Kharif	Agriculture Engineering	Demonstration of tractor operated baler machine.	Enterprises	Farm Machines	paddy straw management	-	Completed	10	-	-	-	4	-	12	2	18
Bemetara	2020-21	Kharif & Rabi	Agriculture Engineering	Demonstration of ridge and furrow sowing of Pigeon pea crop	Crop	Pigeon Pea	Resources conservation technology	Irrigation	Ongoing	-	-	-	-	-	-	-	-	-
Bemetara	2019-20	Rabi	Agriculture Engineering	Demonstration of seed cum fertilizer drill machine for line sowing of chickpea crop	Crop	Chick pea	Resources conservation technology	-	Completed	04	7.3	9.4	25.14	03	0	07	-	10

### 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 <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )
Bemetara	Demonstration of tractor operated baler machine.	Farm Machines	Actual Field capacity (ha/h) Labour requirement (man-h/ha) time required (h/ha), cost of cultivation Rs/ha,	Manually lifting	Bale making through Tractor operated Baler machine	2200.00	1400.00	Actual Field capacity (ha/h) 0.03	Actual Field capacity (ha/h) 0.60	Labour requirement (man-h/ha) 24.5	Labour requirement (man-h/ha) 1.80	Time required (h/ha) 23.7	Time required (h/ha) 1.62
Bemetara	Demonstration of ridge and furrow sowing of Pigeonpea crop	Pigeon Pea	cost of cultivation Rs/ha, Net return, B:C ratio, crop yield q/ha	line sowing	ridge and furrow sowing	Ongoing	-	-	-	-	-	-	-
Bemetara	Demonstration of seed cum fertilizer drill machine for line sowing of chickpea crop	Chick pea	Field capacity, fuel consumption, field efficiency %. cost economic, crop yield kg/h	Broadcasting sowing	Seed cum fertilizer drill sowing	19500.00	20500.00	-	-	28470.00	36660.00	1.46	1.78

### 3.5 Details of FLDs on Animal Science implemented during Jan-2020 to Dec-2020 -Nil

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop/Enterprise Category	Name of Crop/Enterprise	Name of Variety/Tech/Enterprise	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/Ongoing	Crop-Area (ha) / Enterprise - No.	Results (q/ha)		% change	No. of farmers				
											FP (T <sub>1</sub> )	RP (T <sub>2</sub> )		SC	ST	Others	General	Total

### 3.6 Economic Impact of Animal Science FLD -Nil

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 <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )		



### 3.7 Details of FLDs on Fishery implemented during Jan-2020 to Dec-2020

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) / Enterprise - No.	Results (q/ha)		% change	No. of farmers				
											FP (T <sub>1</sub> )	RP (T <sub>2</sub> )		SC	ST	Others	General	Total
Bemetara	2020-21	Kharif & Rabi	Pond Management	Demonstration on grass carp fish to control aquatic weeds	Fisheries	Fish	Catla, Rohu, mrigal, grass carp	Lowland and midland	ongoing	05	awaited	Bemetara	2020-21	Kharif & Rabi	Pond Management	Demonstration on grass carp fish to control aquatic weeds	Fisheries	Fish
Bemetara	2020-21	Kharif & Rabi	Pond Management	Demonstration on composite fish farming	Fisheries	Fish	Catla, Rohu, mrigal, common carp	Lowland and midland	ongoing	05	awaited	Bemetara	2020-21	Kharif & Rabi	Pond Management	Demonstration on composite fish farming	Fisheries	Fish

### 3.8 Economic Impact of Fishery FLD (ongoing)

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters				Cost of cultivation (Rs/ha)		Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	

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

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 <sub>1</sub> )	RP (T <sub>2</sub> )		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
Bemetara	Paddy, Soybean, Chick pea, pigeon Pea,	Training	06	108	

### 3.11 Details of FLD on crop hybrids. - Nil

S. No.	Name of the KVK	Name of the Crop	Name of the Hybrids	Source of Hybrid (Institute/Firm)	No. of farmers	Area in ha.

#### 4. Feedback System - Nil

##### 4.1. Feedback of the Farmers to KVK

Name of KVK	Feedback			
	Technology appropriations	Methodology used	Benefits of OFT/FLD	Future Adoption

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

Name of KVK	Feedback basic of OFT on Technology Tested

##### 4.3. Documentation of the need assessment conducted by the KVK for the training programme - Nil

Name of KVK	Category of the training	Methods of need assessment	Date and place	No. of participants involved

## 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**  
 (\*please fill all columns)

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
		do not leave column blank	Crop Production	Weed Management	-	-	-	-	-	-	-	-	-	-	
			Crop Production	Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-	
			Crop Production	Cropping Systems	-	-	-	-	-	-	-	-	-	-	
			Crop Production	Crop Diversification	-	-	-	-	-	-	-	-	-	-	
			Crop Production	Integrated Farming	-	-	-	-	-	-	-	-	-	-	
			Crop Production	Micro irrigation/irrigation	-	-	-	-	-	-	-	-	-	-	
			Crop Production	Seed production	-	-	-	-	-	-	-	-	-	-	
			Crop Production	Nursery management	-	-	-	-	-	-	-	-	-	-	
Benetara	F&FW	OFC	Crop Production	Integrated Crop Management	Training on organic farming	1	1	-	-	-	-	-	2	3	
			Crop Production	Soil & water conservation	-	-	-	-	-	-	-	-	-	-	
Benetara	F&FW	OFC	Crop Production	Integrated nutrient Management	Training on judicious use of micro & macro nutrients	1	1	-	-	-	-	-	1	7	
			Crop Production	Production of organic inputs	-	-	-	-	-	-	-	-	-	-	
			Crop Production	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	
			Horticulture (Vegetable Crops)	Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-	
			Horticulture (Vegetable Crops)	Off season vegetables	-	-	-	-	-	-	-	-	-	-	

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	
			Horticulture (Vegetable Crops)	Nursery raising	-	-	-	-	-	-	-	-	-	-		
			Horticulture (Vegetable Crops)	Exotic vegetables	-	-	-	-	-	-	-	-	-	-		
			Horticulture (Vegetable Crops)	Export potential vegetables	-	-	-	-	-	-	-	-	-	-		
			Horticulture (Vegetable Crops)	Grading and standardization	-	-	-	-	-	-	-	-	-	-		
			Horticulture (Vegetable Crops)	Protective cultivation	-	-	-	-	-	-	-	-	-	-		
Benetara	F&FW	OFC	Horticulture (Vegetable Crops)	Others(Pl. Specify)	Training on vermicomposting technique	2	2	0	0	0	1	0	0	2	9	
			Horticulture (Fruits)	Training and Pruning	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture (Fruits)	Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture (Fruits)	Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture (Fruits)	Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture (Fruits)	Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture (Fruits)	Export potential fruits	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture (Fruits)	Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture (Fruits)	Plant propagation techniques	-	-	-	-	-	-	-	-	-	-	-	
Benetara	F&FW	OFC	Horticulture (Fruits)	Others (Pl. Specify)	Training on vermicomposting technique	3	3	0	1	2	1	4	0	6	3	9
			Horticulture (Ornamental Plants)	Nursery Management	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture (Ornamental Plants)	Management of potted plants	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture (Ornamental Plants)	Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture (Ornamental Plants)	Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture (Ornamental Plants)	Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture(Plantation crops)	Production and Management technology	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture(Plantation crops)	Processing and value addition	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture(Plantation crops)	Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture(Tuber crops)	Production and Management technology	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture(Tuber crops)	Processing and value addition	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture(Tuber crops)	Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture(Spices)	Production and Management technology	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture(Spices)	Processing and value addition	-	-	-	-	-	-	-	-	-	-	-	
Benetara	F&FW	OFC	Horticulture(Spices)	Others (Pl. Specify)	Kribhko Vilage - Dholiya	1	1	0	0	2	0	3	0	2	0	
			Horticulture( Medicinal and Aromatic Plants)	Nursery management	-	-	-	-	-	-	-	-	-	-	-	
			Horticulture( Medicinal and Aromatic Plants)	Production and management technology	-	-	-	-	-	-	-	-	-	-	-	

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
			Horticulture( Medicinal and Aromatic Plants)	Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-	
			Horticulture( Medicinal and Aromatic Plants)	Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	
			Soil Health and Fertility Management	Soil fertility management	-	-	-	-	-	-	-	-	-	-	
			Soil Health and Fertility Management	Integrated water management	-	-	-	-	-	-	-	-	-	-	
Benetara	F&FW	OFC	Soil Health and Fertility Management	Integrated Nutrient Management	Integrated Nutrient Management in Rabi crops	5	5	4	19	-	2	-	26	-	85
Bemetara	F&FW	OFC	Soil Health and Fertility Management	Production and use of organic inputs	Training on vermicomposting technique	5	5	-	4	-	5	-	2	-	163
	-	-	Soil Health and Fertility Management	Management of Problematic soils	-	-	-	-	-	-	-	-	-	-	-
	-	-	Soil Health and Fertility Management	Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-	-
	-	-	Soil Health and Fertility Management	Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY	ONC	Soil Health and Fertility Management	Balance Use of fertilizer	Balance Use of fertilizer in different crops	3	3	5	-	3	-	3	-	54	-
Bemetara	-	-	Soil Health and Fertility Management	Soil & water testing	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY	ONS	Soil Health and Fertility Management	Organic Farming	2	2	-	-	-	-	-	-	-	41	-
Bemetara	-	-	Soil Health and Fertility Management	Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-
Bemetara	-	-	Livestock Production and Management	Dairy Management	-	-	-	-	-	-	-	-	-	-	-
Bemetara	-	-	Livestock Production and Management	Poultry Management	-	-	-	-	-	-	-	-	-	-	-
Bemetara	-	-	Livestock Production and Management	Piggery Management	-	-	-	-	-	-	-	-	-	-	-
Bemetara	-	-	Livestock Production and Management	Rabbit Management	-	-	-	-	-	-	-	-	-	-	-
Bemetara	-	-	Livestock Production and Management	Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-	-

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
Bemetara	-	-	Livestock Production and Management	Disease Management	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Livestock Production and Management	Feed & fodder technologies	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Livestock Production and Management	Production of quality animal products	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Livestock Production and Management	Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Home Science/Women empowerment	Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Home Science/Women empowerment	Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Home Science/Women empowerment	Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Home Science/Women empowerment	Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Home Science/Women empowerment	Processing & cooking	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Home Science/Women empowerment	Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Home Science/Women empowerment	Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Home Science/Women empowerment	Value addition	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Home Science/Women empowerment	Women empowerment	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Home Science/Women empowerment	Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Home Science/Women empowerment	Rural Crafts	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Home Science/Women empowerment	Women and child care	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Home Science/Women empowerment	Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Agril. Engineering	Farm machinery & its maintenance	-	-	-	-	-	-	-	-	-	-	
Bemetara	F&FW	OFC	Agril. Engineering	Installation and maintenance of micro irrigation systems	Training on farm machinery used in Rabi session crops	1	1	7	-	6	-	2	-	17	



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
Bemetara	F&FW	OFC	<b>Agril. Engineering</b>	Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-	
Bemetara	F&FW	OFC	<b>Agril. Engineering</b>	Production of small tools and implements	Training on laser guided land leveler machine	1	1	4	-	3	-	3	-	21	
Bemetara	F&FW	OFC	<b>Agril. Engineering</b>	Repair and maintenance of farm machinery and implements	Training on farm machinery used in Kharif session crops	1	1	-	-	7	-	-	-	18	
Bemetara	-	-	<b>Agril. Engineering</b>	Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	<b>Agril. Engineering</b>	Post Harvest Technology	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	<b>Agril. Engineering</b>	Post Harvest Technology	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	<b>Agril. Engineering</b>	Others (Pl. Specify)	Training on crop doctor app	3	3	12	-	23	-	13	-	47	
Bemetara	F&FW	OFC	<b>Plant Protection</b>	Integrated Pest Management	Training on IPM in soybean crop	2	2	2	-	0	-	0	-	31	
Bemetara			<b>Plant Protection</b>	Integrated Disease Management	-	-	-	-	-	-	-	-	-	-	
Bemetara	F&FW	OFC	<b>Plant Protection</b>	Bio control of pests and diseases	Bio control agents in chick pea	2	2	2	-	2	-	0	-	31	
Bemetara	F&FW	OFC	<b>Plant Protection</b>	Production of bio control agents and bio pesticides	Trichoderma multiplication technique	2	2	0	-	7	-	10	-	60	
Bemetara	F&FW	OFC	<b>Plant Protection</b>	Others (Pl. Specify)	Mushroom training for SHGs	5	5	0	-	0	-	0	-	09	
Bemetara	F&FW	OFC	<b>Fisheries</b>	Integrated fish farming	Integrated fish farming	1	1	0	-	0	0	5	8	5-	
Bemetara	-	-	<b>Fisheries</b>	Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	<b>Fisheries</b>	Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-	
Bemetara		OFC	<b>Fisheries</b>	Composite fish culture											
Bemetara	-	-	<b>Fisheries</b>	Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	<b>Fisheries</b>	Breeding and culture of ornamental fishes	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	<b>Fisheries</b>	Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-	

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
Bemetara	-	-	Fisheries	Pen culture of fish and prawn	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Fisheries	Shrimp farming	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Fisheries	Edible oyster farming	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Fisheries	Pearl culture	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Fisheries	Fish processing and value addition	-	-	-	-	-	-	-	-	-	-	
Bemetara	-	-	Fisheries	Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	Seed Production	68.26	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	Planting material production	1364	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	BioOagents production	-	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	BioOpesticides production	-	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	BioOfertilizer production	-	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	VermiOcompost production	-	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	Organic manures production	-	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	Production of BeeOcolonies and wax sheets	-	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	Small tools and implements	-	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	Production of Fish feed	-	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	Mushroom production	-	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	Apiculture	-	-	-	-	-	-	-	-	-	-	
Bemetara			Production of Input at site	Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	
Bemetara			Capacity Building and Group Dynamics	Leadership development	-	-	-	-	-	-	-	-	-	-	
Bemetara			Capacity Building and Group Dynamics	Group dynamics	-	-	-	-	-	-	-	-	-	-	
Bemetara			Capacity Building and Group Dynamics	Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-	
Bemetara			Capacity Building and Group Dynamics	Mobilization of social capital	-	-	-	-	-	-	-	-	-	-	
Bemetara			Capacity Building and Group Dynamics	Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-	
Bemetara			Capacity Building and Group Dynamics	WTO and IPR issues	-	-	-	-	-	-	-	-	-	-	
Bemetara			Capacity Building and Group Dynamics	Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	
Bemetara			Agro forestry	Production technologies	-	-	-	-	-	-	-	-	-	-	
Bemetara			Agro forestry	Nursery management	-	-	-	-	-	-	-	-	-	-	
Bemetara			Agro forestry	Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-	
Bemetara			Agro forestry	Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	

**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
Bemetara	RY		Nursery Management of Horticulture crops											
Bemetara	RY		Training and pruning of orchards											
Bemetara	RY		Protected cultivation of vegetable crops											
Bemetara	RY		Commercial fruit production											
Bemetara	RY		Integrated farming											
Bemetara	RY		Seed production											
Bemetara	RY		Production of organic inputs											
Bemetara	RY		Planting material production											
Bemetara	RY		Vermi culture											
Bemetara	RY	OFC	Mushroom Production	Training on Mushroom cultivation	2	2	-	-	-	5	-	-	24	18
Bemetara	RY		Bee keeping											
Bemetara	RY		Sericulture											
Bemetara	RY	OFC	Repair and maintenance of farm machinery and implements	Farm machinery & its maintenance	1	1	-	-	2	-	-	-	28	-
Bemetara	RY	OFC	Value addition	Training on seed processing	1	1	2	-	12	-	-	-	16	-
Bemetara	RY	OFC	Small scale processing	Training on value addition	1	1	-	-	9	-	3	-	18	-
Bemetara	RY	OFC	Post Harvest Technology	Training on tractor drawn baler machine	7	7	28	-	52	-	17	-	63	-
Bemetara	RY		Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY		Rural Crafts	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY		Production of quality animal products	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY		Dairying	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY		Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY		Quail farming	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY		Piggery	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY		Rabbit farming	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY		Poultry production	-	-	-	-	-	-	-	-	-	-	-

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
Bemetara	RY		Ornamental fisheries	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY	OFC	Composite fish culture	Integrated fish farming	1	1	0	-	0	0	5	8	5	-
Bemetara	RY		Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY		Shrimp farming	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY		Pearl culture	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY		Cold water fisheries	-	-	-	-	-	-	-	-	-	-	-
Bemetara	RY	OFC	Fish harvest and processing technology	Composite fish culture	4	4	0	-	10	3	0	18	24	23
Bemetara	RY		Fry and fingerling rearing											
Bemetara	RY		Others (Pl. Specify)											

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

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
	IS		Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-	-
	IS		Integrated Pest Management	-	-	-	-	-	-	-	-	-	-	-
	IS		Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-	-
	IS		Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-	-
	IS		Protected cultivation technology	-	-	-	-	-	-	-	-	-	-	-
	IS		Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-	-
	IS		Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-	-
	IS		Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-
	IS		Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-	-
	IS		Women and Child care	-	-	-	-	-	-	-	-	-	-	-
	IS		Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-	-
	IS		Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-	-
	IS		Information networking among farmers	-	-	-	-	-	-	-	-	-	-	-
	IS		Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-	-
	IS		Management in farm animals	-	-	-	-	-	-	-	-	-	-	-
	IS		Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-	-
	IS		Household food security	-	-	-	-	-	-	-	-	-	-	-
	IS		Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-

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

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				
	Crop production and management	Commercial floriculture																	
	Crop production and management	Commercial fruit production																	
	Crop production and management	Commercial vegetable production																	
	Crop production and management	Integrated crop management																	
	Crop production and management	Organic farming																	
	Crop production and management	<b>Others (Pl. Specify)</b>																	
	Post harvest technology and value addition	Value addition																	
	Post harvest technology and value addition	<b>Others (Pl. Specify)</b>																	
	Livestock and fisheries	Dairy farming																	
	Livestock and fisheries	Composite fish culture																	
	Livestock and fisheries	Sheep and goat rearing																	
	Livestock and fisheries	Piggery																	
	Livestock and fisheries	Poultry farming																	
	Livestock and fisheries	<b>Others (Pl. Specify)</b>																	
	Income generation activities	Vermi-composting																	
	Income generation activities	Production of bio-agents, bio-pesticides,																	
	Income generation activities	Bio-fertilizers etc.																	
	Income generation activities	Repair and maintenance of farm machinery & implements																	
	Income generation activities	Rural Crafts																	
	Income generation activities	Seed production																	
	Income generation activities	Sericulture																	
	Income generation activities	Mushroom cultivation																	
	Income generation activities	Nursery, grafting etc.																	
	Income generation activities	Tailoring, stitching, embroidery, dyeing etc.																	
	Income generation activities	Agril. para0workers, para0vet training																	
	Income generation activities	<b>Others (Pl. Specify)</b>																	
	Agricultural Extension	Capacity building and group																	

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				
		dynamics																	
	Agricultural Extension	Others (Pl. Specify)																	

**Table 5.5. Sponsored Training Programmes**

Name of KVK	Client (F & FW/F W/ RY/ IS)	Title	Thematic area	Sub-theme	Training Title	No. of courses	Duration (days)	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)		
								Gen		Others		SC		ST					
								M	F	M	F	M	F	M	F				
			Crop production and management	Increasing production and productivity of crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Crop production and management	Commercial production of vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Crop production and management	Production and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Crop production and management	Fruit Plants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Crop production and management	Ornamental plants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Crop production and management	Spices crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Crop production and management	Soil health and fertility management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Crop production and management	Production of Inputs at site	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Crop production and management	Methods of protective cultivation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Crop production and management	Others(Pl. Specify)	Training cum awareness programme of CREDA	1	1	-	3	7	2	2	-	-	-	CREDA	80000/-	-	-
			Post harvest technology and value addition	Processing and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Post harvest technology and value addition	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Farm machinery	Farm machinery, tools and implements	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Farm machinery	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Livestock and fisheries	Livestock production and management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Name of KVK	Client (F & FW/F W/ RY/ IS)	Title	Thematic area	Sub-theme	Training Title	No. of courses	Duration (days)	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
								Gen		Others		SC		ST			
								M	F	M	F	M	F	M	F		
			Livestock and fisheries	Animal Nutrition Management	-	-	-	-	-	-	-	-	-	-	-	-	
			Livestock and fisheries	Animal Disease Management	-	-	-	-	-	-	-	-	-	-	-	-	
			Livestock and fisheries	Fisheries Nutrition	-	-	-	-	-	-	-	-	-	-	-	-	
			Livestock and fisheries	Fisheries Management	-	-	-	-	-	-	-	-	-	-	-	-	
			Livestock and fisheries	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-	-	
			Home Science	Household nutritional security	-	-	-	-	-	-	-	-	-	-	-	-	
			Home Science	Economic empowerment of women	-	-	-	-	-	-	-	-	-	-	-	-	
			Home Science	Drudgery reduction of women	-	-	-	-	-	-	-	-	-	-	-	-	
			Home Science	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-	-	
			Agricultural Extension	Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-	-	-	
			Agricultural Extension	Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-	-	

Table 5.6. Details of training programme conducted for livelihood security in rural areas by the KVKs - Nil

Name of KVK	Training title	Self employed after training			Number of persons employed elsewhere
		Type of units	Number of units	Number of persons employed	

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

Name of KVK	Title	Thematic area	Sub-theme	Client (FW/ RY/ IS)	Duration (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
							Gen		Others		SC		ST			
							M	F	M	F	M	F	M	F		

**Table 5.8 Subject area wise details of women farmer specific training programmes organized by KVKs during Jan-Dec-2020**

Area of Training	Jan-Dec-2020	
	Courses	Participants
Household food security by kitchen gardening and nutrition gardening	2	57
Design and development of low/minimum cost diet		
Designing and development for high nutrient efficiency diet		
Minimization of nutrient loss in processing		
Processing and cooking		
Gender mainstreaming through SHGs	4	153
Storage loss minimization techniques		
Value addition		
Women empowerment	5	125
Location specific drudgery reduction technologies		
Rural Crafts		
Women and child care		
Others-Agro-Based IGP programme Training Exposure on Sustainable Agriculture		

**Table 5.9 Subject area wise details of other than women farmer specific training programmes organized by KVKs during Jan-Dec-2020**

Area of Training	Jan-Dec-2020	
	Courses	Participants
Crop Production	02	40
Horticulture	-	-
Soil Health and Fertility Management	15	406
Livestock Production and Management	-	-
Agril. Engineering	16	428
Plant Protection	17	243
Fisheries	06	105
Production of Input at site	196.5	-
Capacity Building and Group Dynamics	-	-
Agro forestry	-	-



**Table 5.10 Evaluation/Follow up & Impact of the training programmes conducted by the KVK (all types of trainings) - Nil**

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)

### 6. EXTENSION ACTIVITIES

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no., "please don't give "mass" ) *								Remarks			
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpos e	Topics	Crop Stages	
				M	F	M	F	M	F	M	F				
Bemetara	Agri mobile clinic														
	Advisory Services														
	Plant/Animal Health Camp	0													
	Awareness programme														
	Celebration of important days														
	Diagnostic visits	23	23	55	27	10	6	2	-	3	-				
	Exhibition														
	Exposure visits	0													
	Extension literature	0													
	Ex-trainees Sammelan	0													
	Farmers visit to KVK														
	Farm Science Club	0													
	Farmers Seminar/Workshop														
	Field Day	1	1	18	7	5	-	02	-	3	1				
	Film Show														
	Group Discussion														
	Kisan Ghosthi/Sammelan	05													
	Kisan Mela	02	2												
	Krishi Mahotsav	0													

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no., "please don't give "mass" ) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
	Lectures delivered as resource persons	08												
	Mahila Mandals conveners meetings	0												
	Method Demonstrations	05												
	Pradhanmantri phasal beema yojana	0												
	Scientific visit to farmers field													
	Self Help Group conveners meetings	0												
	Soil health Camp	0												
	Soil test campaigns	0												
	Special Day Celebration (please specify name)													
	Technology Week													
	Others													

### Mass media used for wide publicity

Name of media	Number of events/activity	Name of channel/ Newspaper used	Place of delivery or publication	Coverage of the media ( Local/ Regional/National)
CD/DVD	03	-	KVK, Bemetara	-
Radio talks	06	Akashwani Raipur	KVK, Bemetara	Regional
TV talks	-	-	-	-
Newspaper coverage				
Kisan Mela	02	-	Village-Mohagaow, Block-Saja Rashtriya Kishan Mela, Village-Tulsi Baradera, Raipur	Local, National
Extension Literature	-	-	-	-
Internet (Youtube)	-	-	-	-
Social media (Whats App, Facebook, Instagram, Twitter etc.)	08	Whatsapp, Facebook, Twitter	-	-

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

### 7.1 KVK Newsletters (Jan to Dec. 2020)

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.)
Bemetara	January to March 2020	Q1	-	-	-
	April to June 2020	Q2			
	July to September 2020	Q3	5000	4200	Farmers, Panchayat, Officials
	October to December 2020	Q4	-	-	-

### 7.2 Literature developed/published

KVK Name	Type	Number (please don't give mass please fill number only)	Number of copies printed (please don't give mass please fill number only)
Bemetara	Abstract	-	-
	Book	-	-
	Book Chapter	-	-
	Booklet	-	-
	CD/DVD	-	-
	Leaflets/ Folder/ Pamphlet	2	
	Popular article	5	
	Research Paper	-	-
	Technical Bulletin	-	-
	Training Manual	-	-
	Technical Report	-	-
	Year Planner	-	-
	Others (pl. specify)	-	-

Research paper /Review paper published during Jan to Dec. 2020 - Nil

Name of KVK	Title of Research/Review paper	Authors/credit line	Name of Journal	Type of journal (National/International)	NASS Rating ( 2020) /impact factor

7.3 Details of Electronic Media Produced - Nil

KVK Name	Type of media (CD/DVD)	Title of the programme	Number

8. Production and supply of Technological products

8.1 SEED production

KVK Name	Crop Category	Name of Crop	Variety (pl. give the name of variety instead of local)	Quantity (qt.)	Value (Rs.)	Provided to no. of Farmers/society	Expected area coverage (ha.)
Bemetara	Oilseed	Soybean	CG Soya-1	70.00	Bemetara	Oilseed	
		Linseed	Deepika	5.00			
Bemetara	Pulse	Pigeon pea	Rajiv lochan	6.00	Bemetara	Pulse	
		Chickpea	RVG-201	80.00			
		Field pea	Ambika	6.00			
		Lathyrus	Mahatiwda	4.00			
Bemetara	Cereals	Wheat	CG Amber wheat	12.00	Bemetara	Cereals	
		Paddy	Dubraj selection-1, Tarunbhog selection-1, Badshah Bhog selection-1	12.00			

## 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.)
Bemetara	Fruit	Pomegranate	Bhagwa	1000			
Bemetara	Fruit	Mango	Langda	200			
Bemetara	Fruit	Mango	Raniramanna	50			
Bemetara	Fruit	Mango	Amrapali	100			
Bemetara	Fruit	Mango	Mallika	150			
Bemetara	Fruit	Mango	Dashhari	80			
Bemetara	Fruit	Mango	Other	7000			
Bemetara	Fruit	Guava	Dharidar	400			
Bemetara	Fruit		Ilahabad Safeda	300			
Bemetara	Fruit		Other	2000			
Bemetara	Fruit	Ber	Apple Ber	1500			
Bemetara	Fruit		Other	500			
Bemetara	Fruit	Nibu	Seedless	500			
Bemetara	Fruit		Other	1000			
Bemetara	Fruit	Papaya		15000			
Bemetara	Fruit	Bel		1000			
Bemetara	Fruit	Jamun		3000			
Bemetara	Fruit	Lime	Kagazi lime	200			
Bemetara	Fruit	Bel		1000			
Bemetara	Fruit	Neem		3000			
Bemetara	Fruit	Imali		1000			

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

\* 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
	Bio Fertilizers	Non Symbiotic Azotobacter					
		Vermicompost					
		Azolla					
		Earthworms					
		Compost					
		Blue green algae					
		NADEP					
		Sanjeevani Khad					
		Acetobactor					
		Aspergillus					
		Azatobactor					
		Azospirillum					
		Phosphate solublizing Bacteria					
		Rhizobium					
		Other (pl. sp.)					
	Bio-Food	Spirulina					
		Honey					
		Any Other (pl. sp.)					
	Bio Pesticides	Neem extract					
		Neem powder					
		Tobacco extract					
		Trichoderma viride					
		Trichoderma harjinum					
		Trichogramma chilonis					
		Beauveria bassiana					

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
		Metarhizium anisopliae					
		Pseudomonas fluorescens					
		SINPV					
		HaNPV					
		GF1					
		Baco Lures					
		Heli Lures					
		Leucin Lures					
		Paecilomyces					
		Panchagavya					
		Verticillium					
		<b>Bio Agents (Tricho card)</b>	Trichogramma chilonis				
	Chrysoperla carnea						
	Tricho card						
	Any other <b>(Pl. Specify)</b>						
	<b>Bio Agents (Pyrilla parasitoids)</b>	Ooincirtus papilionis					
		Epiricania melanolauca					
	<b>Bio Agents(Worms)</b>	Eisenia fetida					
		Eudrilus eugeniae					
		Earth worm					
		Any other <b>(pl. specify)</b>					
	<b>Others</b>	Mushroom spawn					
		Mineral Mixture					
		Cow dung (dry)					
		Any other <b>(pl. specify)</b>					

#### 8.4 Livestock and fisheries production - Nil

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.		
	Dairy animals	Cow						
		Calves						
		Goats						
		Buffaloes						
		Sheep						
		Breeding bull						
		Other (pl specify)						
	Poultry	Poultry						
		Japanese quail						
		Japanese quail eggs						
		Ducks						
		Turkey						
		Other						
	Piggery	Piglets						
		Boar						
		Sow						
		Other (pl specify)						
	Fisheries	Indian carp						
		Exotic carp						
		Other (pl specify)						



## 9. Activities of Soil and Water Testing Laboratory - Nil

### 9.1 Details of soil samples analyzed during Jan to Dec. 2020 : Nil

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
		Collected by KVKs	Provided by Dept./ DDA	Mini Soil Testing kit	Soil testing laboratory	Mini Soil Testing kit	Soil testing laboratory								
								Sanctioned	Procured						

### 9.2 Details of water samples analyzed so far: Nil

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

### 9.3 Details of Plant samples analyzed so far: Nil

KVK Name	No. of Plant Samples analyzed	No. of Farmers	No. of Villages	Amount realized

## 10. Rainwater Harvesting - Nil

10.1. Training programmes conducted by using Rainwater Harvesting Demonstration Unit Nil

Name of KVK	Date	Title of the training course	Client (PF/RV/EF)	No. of Courses	No. of Participants								
					SC		ST		Other		General		Total
					Male	Female	Male	Female	Male	Female	Male	Female	

10.2. Information of Visit in Rainwater Harvesting Demonstration Unit Nil

Name of KVK	No. of Training programmes under Rain water Harvesting	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)

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

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	

12. Utilization of Farmers Hostel facilities Nil

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)

### 13. Utilization of Staff Quarters facilities Nil

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

### 14. Details of SAC Meeting during Jan to Dec. 2020

KVK Name	Date of SAC meeting 2020	No. of SAC members (only) attended	Major action points*
Bemetara	21.07.2020	15	Promotion of DSR technique for sowing of rice

\*Attached separate file.

### 15. Footfall of farmers in KVKs (Jan. 2020 to Dec. 2020)

Name of KVK	Footfall during 2020			
	No. of Farmers	No. of officials	No. of VIPs	Total
Bemetara	504	80	31	615

\*Separate JPEG Photographs (2-3 only)

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

KV K	S. No.	Thematic area	Particulars	No of Calls	No of advisory sent	No of Messages sent	No. of farmers received messages	Total no of villages in District	No of village Covered by KVK through KMA
	1	Crop Management	Crop Production Technology	31		16	47333	714	657
			Integrated Farming						
			Field Preparation						
			Any Other (Specify)			01	47333	714	657
	2	Weather	Advisory	04					
			Change in variety						
			Change in Sowing technique						

KV K	S. No.	Thematic area	Particulars	No of Calls	No of advisory sent	No of Messages sent	No. of farmers received messages	Total no of villages in District	No of village Covered by KVK through KMA
			Climate forecast						
			Any Other (Specify)						
	3	Soil Management	Soil Testing						
			INM	02					
			Fertilizer Application						
			Vermicomposting/ bio-waste recycling						
			Bio-fertilizer						
			Any Other (Specify)						
	4	Disease & Pest Management	Disease Management	16					
			Pest Management	30	02	08	74143	714	657
			Preventive Advisory Disease Management						
			Preventive Advisory Pest Management						
			Bio-pesticides						
			Any Other (Specify)						
	5	Nutrition Security & Women Empowerment	Nutrition Awareness						
			Kitchen garden						
			Value Addition and Processing						
			Drudgery Reduction						
			Entrepreneurship & Income Generation						
			Advisory						
Any Other (Specify)									
6	Horticulture	Vegetable			08	74169	714	657	
		Fruit	38						
		Hi Tech Horticulture							
		Any Other (Specify)							
7	Livestock	Feed and Fodder							
		Dairy Management							

KV K	S. No.	Thematic area	Particulars	No of Calls	No of advisory sent	No of Messages sent	No. of farmers received messages	Total no of villages in District	No of village Covered by KVK through KMA
			Fisheries						
			Poultry Management						
			Vaccination & Disease management	6		06	74143	714	657
			Any Other(Specify)						
	8	Farm Mechanization							
	9	Extension							
	10	Organic Farming							
	11	Marketing		0					
	12	Awareness		9					
	13	Other Enterprise		10		06	74169	714	657
	14	Any Other(Specify)		43		12	56730	714	657

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

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/Non functional)

**18. Status of Contingency Utilization Jan-Dec-2020**

Name of KVK	Total Contingency allotted (Rs.)	Fund used by KVKs (Rs)			Balance (Rs.)
		Activities	No of Activities	Exp. (Rs)	
Bemetara	1000000.00	OFT	12	5820.00	329532.00
		FLD (other than CFLD)	12	49270.00	
		Training	05	11915.00	
		Extension Activities	04	10023.00	
		SAC Meeting	01	5010.00	
		Special Programme (Pl. Specify)	02	16105.00	
		Others (Pl. Specify)	04	572325.00	

**19. Status of Revolving Funds (Rs.)**

KVK Name	Account No.	Opening balance on 01 .01.2020 (Rs.)	Closing balance 31.12.2020 (Rs.)	Name of major source of revolving fund
Bemetara	28360110052136	521870.35	446678.18	Seed Production

**20. Awards & Recognitions - Nil**

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Award category (local/ Regional/ National)	Awarding Organizations	Amount received

**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
500		Soybean	CG Soya-1	
		Soybean	JS 9305	
		Cotton	Bold	
		Cotton	Rasi 659	
		Cotton	Vishwas	
		Cotton	Local	

		Pigeon pea	Rajiv Lochan	
		Moong	Shikha	
		Urd	Azad-3	
		Ragi	Indira Ragi-1	
		Kodo	Local	
		Til	Tilak	
		Corn	Sweet Corn	
		Corn	Hybrid corn	
		Fodder crop	J-1006	
		Fodder crop	Africal Tall	
		Fodder crop	Napier grass	
		Sorghun	COFS-29	
		Sorghun	PC-23	
		Rice bean	Local	
		Bhendi	Local	
		Battle gond	Local	
		Sweet potato	CG Narangi	
		Sweet potato	IGSP-25	
		Sweet potato	Indira Nandini	
		Sweet potato	CGSK Priya	
		Sweet potato	Indira Madhu	
		Sweet potato	Sree Ratna	
		Karmatta Bhagi	Local	

**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 farmer	Mobile No.
1	Bemetara	Shri Maniram	Pepsi tube use in irrigation	Jhal, Bemetara	7898591847
2	Bemetara	Shri Holu Ram Sahu	Intercrop in Banana	Khilora, Bemetara	9753321993
3	Bemetara	Shri Dukaru	Intercrop of various vegetable	Jhal, Bemetara	9754259567
4	Bemetara	Shri Rajan Vargis	Mushroom cultivation	Deori Sharda, Bemetara	7000416113
5	Bemetara	Shri Mohit Sahu	Crop- Livestock- fishery- duckery-poultry – goatery- vermicomposting farming system	Village-Padkidih, Bemetara	8349763494

6	Bemetara	Shri Chandra Shekhar Patel	Crop-Livestock -composting farming system	Village – Gaduwa, Bemetara	9685314323
7	Bemetara	Shri Vikram Patel	Crop-Livestock -composting farming system	Village – Kharjetikala, Bemetara	9179031118
8	Bemetara	Shri Santosh Patel	Crop-Livestock -composting farming system	Village - Gaduwa, Bemetara	9827854928
9	Bemetara	Shri Nutan Patel	Crop-Livestock -composting farming system	Village - Gaduwa, Bemetara	7000784505
10					

**\*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
Bemetara	04.03.2020	04
Bemetara	21.07.2020	06
Bemetara	25.12.2020	03

### 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
Bemetara	4	714	04	04	36	714

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. Nil

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*

**\*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	
Bemetara	Bemetara, Kawardha & Rajnangoan	SAC Meeting	Bemetara	Kawardha & Rajnangoan	SS&H & All SMS & Farmers

## 27. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Bemetara	Dr. K.P. Verma	21/01/2020		1		
Bemetara	Dr. P.C. Lenka	21/01/2020			1	
Bemetara	Mr. Venkteshwaral	21/01/2020			1	
Bemetara	Smt. Rita Yadav	01/02/2020			1	
Bemetara	Dr. K.P. Verma	20/02/2020		1		
Bemetara	Shri Shiv Annat Tayal	20/02/2020			1	
Bemetara	Dr. K.P. Verma	02/03/2020		1		
Bemetara	Dr. G.K. Das	22/02/2020		1		
Bemetara	Dr. J.L. Chaudhary	22/02/2020		1		
Bemetara	Dr. K.P. Verma	04/03/2020		1		
Bemetara	Mrs. Rita Yadav	04/03/2020			1	
Bemetara	Shri D.S. Sidar	04/03/2020			1	
Bemetara	Shri Rakesh Somwani	04/03/2020			1	
Bemetara	Shri Shiv Anant Tayal	04/03/2020			1	
Bemetara	Dr. A.K. Sarawgi	07/03/2020		1		
Bemetara	Dr. A.S. Kotasthane	07/03/2020		1		
Bemetara	Dr. Arun Kumar Tripathi	07/03/2020		1		
Bemetara	Dr. D.K. Rana	07/03/2020		1		
Bemetara	Dr. G.K. Das	07/03/2020		1		
Bemetara	Dr. K.L. Nandeha	07/03/2020		1		
Bemetara	Dr. R.K. Bajpai	07/03/2020		1		
Bemetara	Dr. Rama M. Savu	07/03/2020		1		
Bemetara	Dr. S.C. Mukherjee	07/03/2020		1		

Bemetara	Dr. S.K.Patil	07/03/2020		1		
Bemetara	Dr. K.P. Verma	19/06/2020		1		
Bemetara	Shri Gurudayal Singh Banjare	19/06/2020			1	
Bemetara	Smt. Rita Yadav	19/06/2020			1	
Bemetara	Dr. K.P. Verma	23/10/2020				
Bemetara	Hon'nable Ashish Chhabada Ji	23/10/2020			1	
Bemetara	Hon'nable Ravindra Chaube Ji	23/10/2020			1	
Bemetara	Shri Shiv Anant Tayal	23/10/2020			1	
Bemetara	Dr. K.P. Verma	23/10/2020		1		
Bemetara	Dr. S.K.Patil	07/11/2020		1		
Bemetara	Dr. G.K. Das	07/11/2020		1		
Bemetara	Dr. R.K. Bajpai	07/11/2020		1		
Bemetara	Dr. S.C. Mukherjee	07/11/2020		1		
Bemetara	Dr. K.P. Verma	07/11/2020		1		
Bemetara	Dr. Rama M. Savu	07/11/2020		1		
Bemetara	Dr. K.P. Verma	07/11/2020		1		
Bemetara	Dr. S.R.K. Singh	29/12/2020	1			
Bemetara	Dr. K.P. Verma	29/12/2020		1		
Bemetara	Dr. S. K. Patil	30/12/2020		1		
Bemetara	Dr. G.K. Das	30/12/2020		1		
Bemetara	Dr. S.C. Mukherjee	30/12/2020		1		
Bemetara	Dr. Sanjay Naiyar	30/12/2020		1		
Bemetara	Dr. K.P. Verma	30/12/2020		1		
Bemetara	Dr. Rama M. Savu	30/12/2020		1		
<b>TOTAL-</b>			<b>1</b>	<b>32</b>	<b>13</b>	

## 28. Status of KVK Website during Jan to Dec. 2020

S.No	Name of KVK	Date of start of website	Address of Website	No. of updates during 2020	No. of visitors during 2020	Flag Collected	Year Planner
01	Bemetara	29.08.2017	kvkbemetara.org	12	11984	12	-

**29. Mobile Apps developed by KVK - Nil**

S.No	Name of KVK (Developer)	Name of Host organization	Title of Mobile App	Content (in one line)	Languages (in which app developed)	Number of downloads	Total expenditure incurred in developing app (Rs.)

**30. ICT based module**

**30.1 Information on Whats app in social media by KVK**

KVK	Discipline wise group with name of discipline	No of Farmer members	Activity details on whats app group
Bemetara	Pulses & Oilseed farmers	22	Providing information about Regarding group
Bemetara	KVK group soybean farmers	20	Providing information about Regarding group
Bemetara	Veg weekly report	13	Providing information about Regarding group
Bemetara	KVK BMT Sugarcane grower	06	Providing information about Regarding group
Bemetara	Rice farmers KVK Bemetara	28	Providing information about Regarding group
Bemetara	Krishi Yantra KVK Bemetara	20	Providing information about Regarding group

**30.2 Information on social media by KVK**

KVK	Facebook			Twitter		Instagram	
	Scientists linked	Farmers connected	No of Post	No of tweets	People following	No of share	People following
Bemetara							

### 30. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals	Remarks
1	Bemetara	02	02	-

### 31. Status of Citizen Charter Nil

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

### 32. Participation in HRD Programmes organized by ATARI - Nil

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
	<b>Total</b>			

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

### 33. Participation in HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Bemetara	Dr. G.P. Ayam	SS&H	02	
Bemetara	Dr. Chetna Banjare	SMS Horticulture	04	
Bemetara	Dr. Pragya Pandey	SMS Agronomy	04	
Bemetara	Er. Jitendra Joshi	SMS FMPE	01	

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

### 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)

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

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

Name of KVK	Situation observed	Date of Alert sent	Type of alert (KMA,	Reported to organization

### 36. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock /technology
Bemetara	Gosthies	06	152	Chick pea , Soybean, pigeon pea & other crops
Bemetara	Lectures organized	42	169	Mushroom, farm machinery, IPM, organic farming
Bemetara	Exhibition	02	Mass	Organic farming components
Bemetara	Film show	-	-	
Bemetara	Fair	02	Mass	Crop varieties demonstration organic products
Bemetara	Farm/ Field Visit	07	20	Farmer field for diagnostic
Bemetara	Diagnostic Practical's	34	113	Farmer field for diagnostic
Bemetara	Distribution of Literature (No.)	02	435	Indira Kishan Mitan
Bemetara	Distribution of Seed (q)	89	35	Different crops
Bemetara	Distribution of Planting materials (No.)	15	1600	Mango, guava, citrus (total planting materials=9881)
Bemetara	Bio Product distribution (Kg)	-	-	-
Bemetara	Distribution of Bio Fertilizers (q)	-	-	-
Bemetara	Distribution of fingerlings	-	-	-
Bemetara	Distribution of Livestock specimen (No.)	-	-	-
Bemetara	Total number of farmers visited the technology week	02	32	Crop cafeteria
Bemetara	Animal health camp	-	-	-
Bemetara	Awareness programme	05	380	CREDA , INM etc.
Bemetara	Demonstration	06	53	Crop cafeteria
Bemetara	Exposure visit	02	250	
Bemetara	Ex-trainees Meet	-	-	-

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock /technology
Bemetara	Farmer scientist interaction	05	55	
Bemetara	Farmers Training	56	1222	Chick pea , Soybean, pigeon pea & other crops Mushroom, farm machinery, IPM, organic farming
Bemetara	Gajarghans Unmulan Pakhwada	-	-	-
Bemetara	Group Meeting	-	-	-
Bemetara	Jai Kisan Jai Vigyan Sangoshthi	-	-	-
Bemetara	Plant Protection Week	-	-	-
Bemetara	Seed treatment campaign	-	-	-
Bemetara	Self Help Group convener meet	-	-	-
Bemetara	Soil health Camp	01	20	
Bemetara	Swachha Bharat Abhiyan	16	232	-
Bemetara	Others (Pl. Specify)	-	-	-
<b>TOTAL</b>		<b>309</b>	<b>4768</b>	

### 37. INTERVENTIONS ON DROUGHT MITIGATION - Nil

#### Introduction of alternate crops/varieties - Nil

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

#### Farmers-scientists interaction on livestock management - Nil

Name of KVK	Livestock components(Breeding/Feeding/Health/ Housing)	Number of interactions	No. of participants

#### Animal health camps organized - Nil

Name of KVK	Number of camps	No. of animals Attended	No. of farmers Benefitted

**Seed distribution in drought hit area - Nil**

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

**Seedlings and Saplings distributed - Nil**

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

**Bio-control Agents - Nil**

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

**Bio-Fertilizer - Nil**

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

**Worms Produced - Nil**

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

**Large scale adoption of resource conservation technologies - Nil**

Name of KVK	Crops	Variety	list of resource conservation technologies introduced	Area (ha)	Number of farmers

### Awareness campaign

Name of KVK	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers
Bemetara	02	32	06	152	01	22	02	mass	02	Mass	--	-

### Information for TSP Jan-Dec-2020 - Nil

Sl. No.	KVK	Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		Number of farmers involved			Participants in extension activities (No.)	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains (Number in lakh)	Production of fingerlings (Number in lakh)	Testing of Soil, water, plant, manures samples (Number)
		No. of Trainings/Demos	No. of Farmers	No. of Trainings/Demos	No. of Women Farmers	No. of Trainings/Demos	No. of Youths	No. of Trainings/Demos	No. of Ext. Person	On-farm trials	Frontline demos	Mobile agro-advisory to farmers						

### Information for SCSP Jan-Dec-2020 - Nil

Sl. No.	KVK	Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		Number of farmers involved			Participants in extension activities (No.)	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains (Number in lakh)	Production of fingerlings (Number in lakh)	Testing of Soil, water, plant, manures samples (Number)
		No. of Trainings/Demos	No. of Farmers	No. of Trainings/Demos	No. of Women Farmers	No. of Trainings/Demos	No. of Youths	No. of Trainings/Demos	No. of Ext. Person	On-farm trials	Frontline demos	Mobile agro-advisory to farmers						



## Information for KSHAMTA Jan-Dec-2020 - Nil

Sl. No.	State	Name of KVK	Number of Adopted Villages	No. of Activities		No. of farmers benefited	
				Demo	Training	Demo	Training

## 38. Activities for Sansad Adarsh Gram - Nil

### 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 benefited

### 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

## Activities in DFI Village during Jan-Dec-2020

### Information about DFI Village - Nil

Name of KVK	Block	Name of DFI Village	Total geographical area (ha)	House hold	Population

### 1. Technologies Assessed (OFT) in DFI Village - Nil

Name of KVK	Thematic area	Name of Intervention	No. of Activity	Area (ha)	No. of beneficiaries
	Increase in productivity of crops				
	Increase in production of livestock				
	Improvement in efficiency of input use (cost saving)				
	Increase in crop intensity				
	Diversification towards high value crops				
	Improved price realization by farmers and market linkage				

### 2. Technologies Demonstrated (FLD) in DFI Village - Nil

Name of KVK	Thematic area	Name of Intervention	No. of Activity	Area (ha)	No. of beneficiaries
	Increase in productivity of crops				
	Increase in production of livestock				
	Improvement in efficiency of input use (cost saving)				
	Increase in crop intensity				
	Diversification towards high value crops				
	Improved price realization by farmers and market linkage				

### 3. Training Programme conducted in DFI Village - Nil

Name of KVK	Training Title	No. of Courses	Duration (Days)	Gen		SC		ST		Other		Total
				M	F	M	F	M	F	M	F	

### 4. Extension Activities in DFI Village - Nil

Name of KVK	Activity	No. of activities	SC		ST		Other		Officials		Total
			M	F	M	F	M	F	M	F	

### Activities in Nutri-Smart Village during Jan-Dec-2020 - Nil

#### Information about Nutri-Smart Village

Name of KVK	Block	Name of Nutri Smart Village

### 1. Technologies Assessed (OFT) in Nutri Smart Village - Nil

Name of KVK	Thematic area	Name of Intervention	No. of Activity	Area	No. of beneficiaries
	Nutritional Garden (activity in no. of Unit) (m <sup>2</sup> )				
	Bio-fortified Crops (activity in no. of Unit) (ha)				
	Value addition (activity in no. of Unit/Enterprise)				
	Other Enterprises (activity in no. of Unit/Enterprise)				
	Income generation (activity in no. of Unit/Enterprise)				
	Drudgery reduction (activity in no. of Unit/ Enterprise)				

### 2. Technologies Demonstrated (FLD) in Nutri Smart Village - Nil

Name of KVK	Thematic area	Name of Intervention	No. of Activity	Area	No. of beneficiaries
	Nutritional Garden (activity in no. of Unit) (m <sup>2</sup> )				
	Bio-fortified Crops (activity in no. of Unit) (ha)				
	Value addition (activity in no. of Unit/Enterprise)				
	Other Enterprises (activity in no. of Unit/Enterprise)				
	Income generation (activity in no. of Unit/Enterprise)				
	Drudgery reduction (activity in no. of Unit/Enterprise)				

### 3. Training Programme conducted in Nutri Smart Village – Nil

Name of KVK	Training Title	No. of Courses	Duration (Days)	Gen		SC		ST		Other		Total
				M	F	M	F	M	F	M	F	

### 4. Extension Activities in Nutri Smart Village - Nil

Name of KVK	Activity	No. of activities	SC		ST		Other		Officials		Total
			M	F	M	F	M	F	M	F	

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

<b>Name of the KVK</b>	<b>Bemetara</b>
<b>TITLE</b>	CFLD field pea
<b>Introduction</b>	Shri Rahul Patel, He is young emerging farmer,33 years old having B.E. Degree in information technology. He is doing farming last 7-8 years.
<b>KVK intervention</b>	KVK Bemetara has provided seed, culture for seed treatment , pesticide to farmers and giving full pacage & practices of cultivation.
<b>Output</b>	7.5 q
<b>Outcome</b>	29150.00
<b>Impact</b>	Farmer is happy and ready to adopted this technology



<b>Name of the KVK</b>	<b>Bemetara</b>
<b>TITLE</b>	CFLD green gram
<b>Introduction</b>	Shri Mohan Kashyap, He is 43 years old, progressive farmer he has grown vegetables, cereals and pulses.
<b>KVK intervention</b>	KVK, Bemetara has provided seed, pesticide and technical guidance about the crop cultivation.
<b>Output</b>	12.0
<b>Outcome</b>	52100
<b>Impact</b>	Farmer is happy and ready to adopted this technology



❖ 2-3 Photographs with caption in .jpeg format.

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

<b>Sr. no.</b>	<b>Name of KVK</b>	<b>No. of success stories</b>	<b>No. of case studies</b>
<b>1</b>	<b>Bemetara</b>	<b>4</b>	