

# **ANNUAL ACTION PLAN**

**January 2021 to December 2021**

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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.

## PERIOD – January 2020 to December 2020

### Summary of the activities

KVK Name	Activity	Target		Achievement		Total value of resource generated/Fund received from diff. sources (Rs.)
		Number of activity	No. of farmers/beneficiaries	Number of activity	No. of farmers/beneficiaries	
Kawardha	OFTs	12	48			
Kawardha	FLDs – Oilseeds (activity in ha)	02	24			
Kawardha	FLDs – Pulses (activity in ha)	02	24			
Kawardha	FLDs – Cotton (activity in ha)					
Kawardha	FLDs – Other than Oilseed and pulse crops(activity in ha)	06	24			
Kawardha	FLDs – Other than Crops (activity in no. of Unit/Enterprise)	03	36			
Kawardha	Training-Farmers and farm women	35	1500			
Kawardha	Training-Rural youths	11	350			
Kawardha	Training- Extension functionaries	7	200			
Kawardha	Extension Activities	345	Mass			
Kawardha	Seed Production (Number of activity as seeds in quintal)	710.00				
Kawardha	Planting material ((Number of activity as quantity of planting material in quintal)	50000	Mass			
Kawardha	Seedling Production (Number of activity as number of seedlings in numbers)	20000				
Kawardha	Sapling Production (Number of activity as number of sapling in numbers)	10000				
Kawardha	Other Bio- products (No. of quantity)	9540.00	Mass			
Kawardha	Live stock products	1555	75			
Kawardha	Activities of Soil and Water Testing Laboratory	1500	14150			
Kawardha	Rainwater Harvesting System	10	10			
Kawardha	Kisan Mobile Advisory (KVK-KMA)	50	Mass			
Kawardha	SAC Meeting (Date & no. of core/ official members)	01	80			

KVK Name	Activity	Target		Achievement		Total value of resource generated/Fund received from diff. sources (Rs.)
		Number of activity	No. of farmers/beneficiaries	Number of activity	No. of farmers/beneficiaries	
Kawardha	Literature to be Developed/Published	40	Mass			
Kawardha	Convergence programmes / Sponsored programmes	24	600			
Kawardha	Utilization of Farmers Hostel	00				
Kawardha	Utilization of Staff Quarters	00				
Kawardha	Details of KVK Agro-technological Park	04	Mass			
Kawardha	Crop Cafeteria-					
Kawardha	Farm Innovators- list of 10 farm innovators from the District	10	Mass			
Kawardha	Status of Revolving Funds	00				
Kawardha	Awards and Recognitions	00				
Kawardha	Case study / Success Story to be developed	02				
Kawardha	KVK Progressive Farmers interaction	50				
Kawardha	Outreach of KVK in the District (No. of blocks, no. of villages)	04	1013			
Kawardha	Technology Demonstration under Tribal Sub Plan	02	100			
Kawardha	KVK Ring	02	Mass			
Kawardha	Important visitors to KVK	50	Mass			
Kawardha	Status of KVK Website	01	Mass			
Kawardha	Status of RTI	00				
Kawardha	E-connectivity	01	Mass			
Kawardha	Details of Technology Week Celebrations	40	Mass			
Kawardha	Interventions on Drought Mitigation	10	Mass			
Kawardha	Sansad Adarsh Gram	10	150			
Kawardha	Other Activities	15	500			

# 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
KAWARDHA	16	1	0	6	4	03	03	6	4	16	11

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of Specialization	Pay scale	Present pay	Date of joining	Per. /Temp.	Category
Kawardha	Senior Scientist and Head	Vacant				37400-67000+8000 Rs. 9000				
Kawardha	Subject Matter Specialist1	Dr. B.P.Tripathi (I/c Senior Scientist and Head)	Plant Pathology	Ph. D.	Plant Pathology	15600-39100 + 5400 AGP		06.09.2012	Per.	Others
Kawardha	Subject Matter Specialist2	Er. T.S.Sonwani	F.M.P	M. Tech.	F.M.P	15600-39100 + 5400 AGP		10.09.2012	Per.	SC
Kawardha	Subject Matter Specialist3	Smt.Rajeshwari Sahu	Horticulture	M.Sc.	Horticulture	15600-39100 + 5400 AGP		19.02.2013	Per.	OBC
Kawardha	Subject Matter Specialist4	Sh. B.S. Parihar	Agronomy	M.Sc.	Agronomy	15600-39100 + 5400 AGP		18.09.2014	Per.	Others
Kawardha	Programme Assistant	Smt. Swati Sharma	Entomology	M.Sc.	Entomology	9300-34800 +4200 AGP		05.11.2014	Per.	Others
Kawardha	Computer Programmer	Mr. Yogesh Kumar Kaushik	Information Technology	BE (IT)	Information Technology	9300-34800+4200 AGP		12.07.2013	Per.	OBC
Kawardha	Farm Manager	SMT.Tripti Thakur	Soil Science	M. Sc.	Soil Science	9300-34800 +4200 AGP		26.10.2019	Per.	ST
Kawardha	Accountant / superintendent	Shri A. K. Khare	Economics	M.A.,LLB	Economics	5200 – 20200 + 2400 AGP		28.07.2010	Per.	SC
Kawardha	Stenographer	Vacant								
Kawardha	Driver	Vacant				5200-20200 +1900 AGP				
Kawardha	Driver	Shri Haran Ram Kaushik	Primary	Primary	Primary	5200-20200 +1900 AGP		01.04.2013	Per.	OBC
Kawardha	Supporting staff	Shri. Salik Ram Lodhi	Middle	Middle	Middle	4750 – 7400 + 1300 AGP		16.09.2008	Per.	OBC
Kawardha	Supporting staff	Shri Shiv Kumar Lodhi	Primary	Primary	Primary	4750 – 7400 + 1300 AGP		16.09.2008	Per.	OBC

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

KVK Name	Agro-climatic zone	No. of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Kawardha	CG Plain	04	371	822526	61.95%	62466	154040	1.8 ha

Sr. No.	Particulars	Quantity/Area
1.	Geographic Area	444000 ha
2.	Rainfall	830.00 mm
3.	Forest Area	189451 ha
4.	Double Cropped Area	87634 ha
5.	<i>Kharif</i> Area	161381ha
6.	<i>Rabi</i> Area	145734ha
7.	Total Cultivated Area	307115ha
8.	Net Cultivated Area	185064 ha
9.	Cropping Intensity	166 %
10.	Barren Land	16028ha
11.	Cultivable fallow land	5027 ha
12.	Pasture lands	38957ha
13.	Kharif Irrigated Area	80393 ha
14.	Rabi Irrigated Area	57400ha
15.	Net Irrigated Area	80393 ha

### 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)
Kawardha	Gangpur	2021	S.Lohara	22 km	816	220
Kawardha	Rajanawagaon	2021	Kawardha	15km	2786	1500
Kawardha	Pathrra	2021	Kawardha	25km	586	109

### 1.4. THRUST AREAS identified by KVK

KVK Name	THRUST AREA
KAWARDHA	Introduction of sugarcane varieties resistant to Whip Smut
KAWARDHA	Varietal replacement in various crops
KAWARDHA	Change in Paddy-chick pea/ soybean- chick pea cropping systems
KAWARDHA	Introduction of sugarcane varieties resistant to red rot, root borer and shoot borer
KAWARDHA	Insuring production and availability of <i>Trichoderma viride</i> locally
KAWARDHA	Combined use of organic manures and inorganic fertilizer
KAWARDHA	Enhancement of milk & meat productivity through improved breeds
KAWARDHA	Farm mechanization through improved agricultural implements
KAWARDHA	Employment generation for rural women & rural youth through income generation activities

### 1.5. PROBLEM IDENTIFIED by KVK

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
Kawardha	Lack of awareness of improved agricultural technologies	Discussion with farmers, field visit	
Kawardha	Non-availability of quality kabirdhs of suitable HYVs	Discussion with farmers	
Kawardha	Lack of suitable agricultural implements for seeding of crops	Discussion with farmers, field visit	
Kawardha	Lack of proper agricultural infrastructures including irrigation	Discussion with farmers	
Kawardha	Non-awareness regarding effective control of various pests and diseases (insects, diseases and weeds)	Discussion with farmers and Field visit	
Kawardha	High incidence of pests and diseases, Improper use of fertilizer and chemicals	Discussion with farmers, field visit	
Kawardha	Less knowledge about post harvest handling of agriculture produce	Discussion with farmers, field visit	
Kawardha	Lack of awareness of improved agricultural technologies	Discussion with farmers, field visit	



## 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 m2
	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>Title of on-farm trial:</b>	Assessment of Integrated crop management in transplanted rice
<b>Year/Season:</b>	Kharif 2021
<b>Farming situation:</b>	Rainfed
<b>Problem diagnosis:</b>	Use of high seed rate coupled with heavy infestation of weeds in biasi system of rice cultivation. Sometimes crop fails due to drought situation occurred at the time of biasi
<b>Thematic area:</b>	ICM
<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> Integrated Weed management	
T1 – Farmers Practice-	Farmers Practice (Delayed Manual Weeding)
T2 –Recommended Practice-	Application of Pretilachlor (6%) + Pyrazosulfuron (0.15% GR) at 600+15 g/ha at 6-8 days after transplanting and thin layer of water for 2-3 days
<b>Date of sowing:</b>	June
<b>Date of harvesting:</b>	November
<b>Source of technology:</b>	NIBSM, Raipur
<b>Characteristics of technology:</b>	
<b>Name of Crop/Enterprises:</b>	Rice- Chickpea
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	
<b>Feedback</b>	

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

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

<b>Title of on-farm trial:</b>	Assessment of High yielding variety of Soybean
<b>Year/Season:</b>	Kharif 2021
<b>Farming situation:</b>	Rainfed
<b>Problem diagnosis:</b>	Use of low yielding variety
<b>Thematic area:</b>	Varietal Assessment
<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> Improved high yielding variety JS-20-69 of Soybean	
T1 – Farmers Practice-	Soybean (JS-93-05,JS-95-60)
T2 –Recommended Practice-	High yielding variety JS-20-98 of Soybean
<b>Date of sowing:</b>	June
<b>Date of harvesting:</b>	November
<b>Source of technology:</b>	JNKVV
<b>Characteristics of technology:</b>	
<b>Name of Crop/Enterprises:</b>	Soybean – Chickpea
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	
<b>Feedback</b>	

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

<b>Details of technology</b>	<b>Name of Parameter</b>	<b>Unit of Parameter</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)						

<b>Title of on-farm trial:</b>	Assessment of chemical disease management in Soybean
<b>Year/Season:</b>	Kharif 2021
<b>Farming situation:</b>	Rainfed
<b>Problem diagnosis:</b>	Low yield of Soybean due to incidence of Anthracnose blight diseases of soybean
<b>Thematic area:</b>	Disease 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> Use of fungicide for the control of soybean diseases	
T1 – Farmers Practice-	Use of not recommended fungicide for the control of disease
T2 –Recommended Practice-	Use of Tebuconazole 250EC @ 156.25gm ai/ha
<b>Date of sowing:</b>	June
<b>Date of harvesting:</b>	November
<b>Source of technology:</b>	A.N.G.RANGA AGRICULTURAL UNIVERSITY HYDERABAD
<b>Characteristics of technology:</b>	
<b>Name of Crop/Enterprises:</b>	Soybean – Chickpea
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	
<b>Feedback</b>	

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

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

<b>Title of on-farm trial:</b>	Assessment of High yielding variety of Chickpea
<b>Year/Season:</b>	Rabi 2021
<b>Farming situation:</b>	Rainfed
<b>Problem diagnosis:</b>	Use of low yielding variety
<b>Thematic area:</b>	Varietal Assessment
<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> Improved high yielding variety (JG-14) of Chickpea	
T1 – Farmers Practice-	local variety of chickpea
T2 –Recommended Practice-	High yielding variety of JG-12
<b>Date of sowing:</b>	November
<b>Date of harvesting:</b>	March
<b>Source of technology:</b>	JNKVV
<b>Characteristics of technology:</b>	
<b>Name of Crop/Enterprises:</b>	Soybean- Chickpea
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	
<b>Feedback</b>	

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

<b>Details of technology</b>	<b>Name of Parameter</b>	<b>Unit of Parameter</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)						

<b>Title of on-farm trial:</b>	Assessment of New tissue culture variety of Banana against High wind velocity
<b>Year/Season:</b>	Kharif- 2021
<b>Farming situation:</b>	Rainfed
<b>Problem diagnosis:</b>	Plant damage due to heavy wind problems, leads to heavy loss to the farmers, therefore they need short structured plant with average yield production of G-9
<b>Thematic area:</b>	Fruit production
<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> Integrated crop management	
T1 – Farmers Practice-	Banana var. G-9
T2 –Recommended Practice-	Banana var. Zelig
<b>Date of sowing:</b>	June
<b>Date of harvesting:</b>	November
<b>Source of technology:</b>	IGKV, Raipur, 2017-18
<b>Characteristics of technology:</b>	
<b>Name of Crop/Enterprises:</b>	Banana-banana
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	
<b>Feedback</b>	

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

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

<b>Title of on-farm trial:</b>	Assessment of Badi cultivation for nutritional and livelihood security of farm families
<b>Year/Season:</b>	Kharif- Rabi 2021
<b>Farming situation:</b>	Rainfed
<b>Problem diagnosis:</b>	Due to improper management of Badi, nutrition requirement of farm families are not fulfill and hence more dependency on market for daily food requirement leads malnutrition and extra expanses among them
<b>Thematic area:</b>	HSG
<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> Homestead Gardening	
T1 – Farmers Practice-	Only Vegetable production during Kharif and Rabi season
T2 –Recommended Practice-	Kharif-Fruit+ Vegetable+ Tuber+ Spice +Vermi composting Rabi- Fruit+ Vegetable+ Tuber+ Leafy vegetables + spices and condiments Zaid- Fruit+ Leafy Vegetables+ cucurbits+ spices and condiments
<b>Date of sowing:</b>	Round the year
<b>Date of harvesting:</b>	Round the year
<b>Source of technology:</b>	ICAR-2014
<b>Characteristics of technology:</b>	
<b>Name of Crop/Enterprises:</b>	Kharif-Fruit+ Vegetable
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	
<b>Feedback</b>	

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

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



<b>Title of on-farm trial:</b>	Assessment of Integrated disease management of Sigatoka disease of Banana
<b>Year/Season:</b>	Kharif 2021
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Heavy crop loss due to Sigatoka disease in Banana.
<b>Thematic area:</b>	IDM
<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: IDM</b>	
T1 – Farmers Practice-	Non judicious use of Fungicide
T2 –Recommended Practice-	Use of propiconazole @ 1.0 gm/litre of water/Cultural practices/maintain proper spacing /avoid water lodging /remove affected leaf
<b>Date of sowing:</b>	June
<b>Date of harvesting:</b>	April
<b>Source of technology:</b>	IGKV, Raipur
<b>Characteristics of technology:</b>	
<b>Name of Crop/Enterprises:</b>	
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	
<b>Feedback</b>	

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

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)						

<b>Title of on-farm trial:</b>	Assessment of Integrated disease management in early blight of tomato
<b>Year/Season:</b>	Rabi 2021
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Heavy crop loss due to Blight disease in Tomato.
<b>Thematic area:</b>	IDM
<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: IDM</b>	
T1 – Farmers Practice-	Non judicious use of Fungicide
T2 –Recommended Practice-	Use of tebuconazole @ 1.0 gm/litre of water/Cultural practices/Tolerant Varities /Staking Seed treatment /weed control Proper drainage and use of biological agent
<b>Date of sowing:</b>	October
<b>Date of harvesting:</b>	March
<b>Source of technology:</b>	IGKV, Raipur
<b>Characteristics of technology:</b>	
<b>Name of Crop/Enterprises:</b>	
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	
<b>Feedback</b>	

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

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

<b>Title of on-farm trial:</b>	Assessment of Onion cultivation through drip irrigation under midland irrigated condition
<b>Year/Season:</b>	Rabi- 2021
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Farmers practicing flood irrigation and imbalance use of fertilizers leads to poor yield and more water requirement, poor storage life
<b>Thematic area:</b>	Integrated Crop Management
<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> Integrated crop management	
T1 – Farmers Practice-	Bhima Red +flood irrigation
T2 –Recommended Practice-	Bhima Red+ Drip and RDF
T3- Recommended Practice-	Bhima Dark Red +Flood irrigation
T4- Recommended Practice	Bhima Dark Red + Drip and RDF
<b>Date of sowing:</b>	November
<b>Date of harvesting:</b>	March
<b>Source of technology:</b>	IGKV, Raipur, 2017-18
<b>Characteristics of technology:</b>	
<b>Name of Crop/Enterprises:</b>	Onion
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	
<b>Feedback</b>	

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

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)						
T2(Recommended Practice)						
T3(Recommended Practice)						
T4(Recommended Practice)						

<b>Title of on-farm trial:</b>	Chemical set treatment for control of Smut (Whip) disease in Sugarcane
<b>Year/Season:</b>	Rabi 2021
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	No Management of smut disease of sugarcane
<b>Thematic area:</b>	IDM
<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> Management of smut disease of sugarcane with new fungicide	
T1 – Farmers Practice-	No set treatment
T2 –Recommended Practice-	Set treatment with Tebuconazole 50% @ 0.1% solution for half to one hour
<b>Date of sowing:</b>	November
<b>Date of harvesting:</b>	November
<b>Source of technology:</b>	IGKV, Raipur
<b>Characteristics of technology:</b>	
<b>Name of Crop/Enterprises:</b>	Sugarcane
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	
<b>Feedback</b>	Farmers appreciated the technology

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

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

<b>Title of on-farm trial:</b>	Assessment of improved variety of tomato
<b>Year/Season:</b>	Rabi 2021
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	
<b>Thematic area:</b>	Varietal Evaluation
<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> Varietal Evaluation of Tomato	
T1 – Farmers Practice-	Use local variety
T2 –Recommended Practice-	Improve Variety of tomato Pusa Rubi,
T3 –Recommended Practice-	Improve Variety of tomato Kashi Gaurav
<b>Date of sowing:</b>	October
<b>Date of harvesting:</b>	March
<b>Source of technology:</b>	IGKV, Raipur
<b>Characteristics of technology:</b>	
<b>Name of Crop/Enterprises:</b>	
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	
Recommended Practice	
<b>Feedback</b>	It is accepted by farmers that through scientific cultivation , most of the month in a year farmer are able to fulfill their daily requirement from Homestead farming

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

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

<b>Title of on-farm trial:</b>	<b>Assessment of sugarcane Onion Intercropping</b>
<b>Year/Season:</b>	Rabi 2021
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	<b>Farmers only take sole sugarcane</b>
<b>Thematic area:</b>	<b>Integrated Crop Management</b>
<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: Sugarcane: Onion (1:5) intercropping</b>	
T1 – Farmers Practice-	Sole Sugarcane
T2 –Recommended Practice-	Sugarcane: Onion (1:5) (120cmx60)
<b>Date of sowing:</b>	November
<b>Date of harvesting:</b>	November
<b>Source of technology:</b>	IGKV, Raipur
<b>Characteristics of technology:</b>	
<b>Name of Crop/Enterprises:</b>	
<b>Recommendations for Farmers</b>	
<b>Recommendations for Deptt. Personnel</b>	
<b>Feedback</b>	

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

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

## 2.2. Information about Extension OFT:

<b>Title</b>	
<b>Season &amp; Year</b>	
<b>Problem identified</b>	
<b>Thematic Area</b>	
<b>Farming situation</b>	
<b>Name of Technology under study</b>	
<b>Farmers Practice</b>	
<b>No. of replication (Farmers)</b>	

Results / findings

Performance indicators/ parameters	Unit/ details

## 2.3. Information about Home Science OFT:

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

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-2021 to Dec-2021

KVK Name	Year	Season	Thematic 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	S T	Oth ers	Gener al	Total
Kawardha	2021	Kharif	Integrated crop management	Direct seeded line Sowing	Cereal	Rice	Indira Rajeshwari	Rainfed		5.00								
Kawardha	2021	Kharif	Plant protection	BLB disease of paddy	Cereal	Rice	IDM module	Rainfed		5.00								
Kawardha	2021	Kharif	Varietal Evaluation	Varietal Evaluation Groundnut	Oilseed	ground nut	Use of improved variety, line sowing with proper fertilizer and pest management	Rainfed		5.00								
Kawardha	2021	Kharif	Varietal Evaluation	Varietal Evaluation Soybean	Oilseed	Soybean	Use of improved variety, line sowing with proper fertilizer and pest management	Rainfed		5.00								

Kawardha	2021	Kharif	HOV	HOV	Vegetable	white brinjal	Chhattisgarh safed Baigan	Rainfed		1.00								
Kawardha	2021	Kharif	HOV	HOV	Vegetable	Indira Sem-2	Indira Sem-2	Rainfed		1.00								
Kawardha	2021	Kharif	HOV	HOV	Vegetable	Gajendra	Use of improved variety of Amorphallus	Rainfed		1.00								
Kawardha	2021	Rabi	Chemical weed management	CWM	Pulses	Chickpea	RVG-202	Irrigated		5.00								
Kawardha	2021	Rabi	Integrated Crop management	ICP	Vegetable	Arbi	Arbi cultivation with recommended package of practice	Irrigated	Ongoing	5.00								
Kawardha	2021	Rabi	Integrated Diseases Management	Chickpea, Bioagent	Pulses	Chickpea	<i>Trichoderma viride</i> for control of Chickpea collar rot	Irrigated	Ongoing	5.00								
Kawardha	2021	Rabi	Income Generation	Oyster mushroom Production	Oyster mushroom Production	Oyster mushroom	Oyster mushroom Production	Irrigated	Ongoing	5.00								
Kawardha	2021	Rabi	Varietal Evaluation	Varietal Evaluation of wheat	Cereal	Wheat	Use of improved variety, line sowing	Irrigated	Ongoing	5.00								

							with proper fertilizer and pest management											
Kawardha	2021	Rabi	Integrated Pest Management	IPM	Cereal	Sugarcane	Set treatment with Tebuconazole 50% @ 0.1% solution for half to one hour	Irrigated	Ongoing	5.00								

### 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> )
Kawardha	Direct seeded line Sowing	Rice	Yield (q/ha)										
Kawardha	BLB disease of paddy	Rice	Yield (q/ha)										
Kawardha	Varietal Evaluation Groundnut	groundnut	Yield (q/ha)										
Kawardha	Varietal Evaluation Soybean	Soybean	Yield (q/ha)										
Kawardha	HOV	white brinjal	Yield (q/ha)										
Kawardha	HOV	Indira Sem-2	Yield (q/ha)										
Kawardha	HOV	Gajendra	Yield (q/ha)										

Kawardha	CWM	Chickpea	Yield (q/ha)										
Kawardha	ICP	Arbi	Yield (q/ha)										
Kawardha	Chickpea, Bioagent	Chickpea	Yield (q/ha)										
Kawardha	Oyster mushroom Production	Oyster mushroom	Yield (q/ha)										
Kawardha	Varietal Evaluation of wheat	Wheat	Yield (q/ha)										
Kawardha	IPM	Sugarcane	Yield (q/ha)										

### 3.3 Details of FLDs on Agriculture Engineering implemented during Jan-2021 to Dec-2021

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

### 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> )

### 3.5 Details of FLDs on Animal Science implemented during Jan-2021 to Dec-2021

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

### 3.6 Economic Impact of Animal Science FLD

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

### 3.7 Details of FLDs on Fishery implemented during Jan-2021 to Dec-2021

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

### 3.8 Economic Impact of fishery FLD

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

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
Kawardha		Field days	10	1000	
Kawardha		Farmers Training	15	525	
Kawardha		Media coverage	20	Mass	
Kawardha		Training for extension functionaries	04	150	

### 3.11 Details of FLD on crop hybrids.

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

## 4. Feedback System

### 4.1. Feedback of the Farmers to KVK

Name of KVK	Feedback			
	Technology appropriations	Methodology used	Benefits of OFT/FLD	Future Adoption
Kawardha	Use of self propelled paddy transplanter	Transplanting Paddy crop by Transplanter	OFT	YES
Kawardha	Use of Inclined Plate Planter for Line sowing of Paddy Crop	Direct Sowing of Paddy by Inclined Plate Planter	FLD	YES
Kawardha	Use of Multi crop Planter	Sowing of Oilseed and Pulses Crop by Multicrop Planter	OFT	YES
Kawardha	Use Self Propelled Vertical Conveyor Reaper	Harvesting Paddy and Wheat crop By Reaper	FLD	YES
Kawardha	Use of Broad Bed Furrow Seed Drill for Sowing of Soybean and Chickpea	Sowing of Soybean and Chickpea with BBF Broad	OFT	YES
Kawardha	Use of Raised Bed Planter for sowing of Soybean and chickpea	Sowing of Chickpea with Raised Bed Planter	OFT	YES
Kawardha	Integrated pest management of Paddy	1. Transplanting of one row of Karigilas variety after every nine rows of cultivated Paddy variety.	FLD	YES
Kawardha	Establishment of Badi cultivation for nutritional security of farm families	Seasonal cultivation of Vegetable, Fruits, Spices to full fill the family needs	OFT	YES
Kawardha	Mushroom Cultivation	Mushroom cultivation for nutritional security of farm families	Vocational Training	YES
Kawardha	Assessment of New variety of Banana Zelig	Zelig variety is tolerant against high wind velocity	OFT	YES

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

Name of KVK	Feedback basic of OFT on Technology Tested
Kawardha	Zelig variety is tolerant against high wind velocity
Kawardha	Seasonal cultivation of Vegetable, Fruits, Spices to full fill the family needs
Kawardha	Sowing of Chickpea with Raised Bed Planter minimizes the losses due to water logged field condition, less wilt losses and weed infestation
Kawardha	Transplanting Paddy crop by Transplanter helps to minimizes labour cost and time saving.
Kawardha	Reaper minimizes the labour cost and time saving on field operations.

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

Name of KVK	Category of the training	Methods of need assessment	Date and place	No. of participants involved
Kawardha	FW	Field visits , Group discussion with the farmers		
Kawardha	FW	Field visits , Group discussion with the farmers		
Kawardha	FW	Field visits , Group discussion with the farmers		
Kawardha	FW	Field visits , Group discussion with the farmers		

## 5. TRAINING PROGRAMMES

1. Training programmes should be strictly covered under above mentioned thematic areas only,
2. For category, training type and thematic area, mention code/abbreviations only

**Table 5.1. Details of Training programmes conducted by the KVKs for Farmers**

Name of KVK	Category (F & FW/ FW)	Training Type (ONC/OFC)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants										
								Gen		SC		ST		Others				
								M	F	M	F	M	F	M	F			
KWD	FW	OFC	Crop Production	Weed Management	Weed Management	1	1											
KWD	FW	OFC	Crop Production	Resource Conservation Technologies	Seed Production	1	1											
KWD	FW	OFC	Crop Production	Cropping Systems	Integrated crop	1	1											
KWD	FW	ONC	Crop Production	Crop Diversification	Cropping Systems	1	1											
KWD	FW	ONC	Crop Production	Integrated Farming	Production of organic inputs	1	1											
KWD	FW	OFC	Crop Production	Micro irrigation/irrigation	Water management	1	1											
KWD	FW	ONC	Crop Production	Seed production	Seed Production of pulses crop	1	1											
KWD	FW	ONC	Crop Production	Nursery management	Nursery management in rice plantation	1	1											
KWD	FW	OFC	Crop Production	Integrated nutrient Management	Use of NPK in Crop Production	1	1											
KWD	FW		Crop Production	Production of organic inputs	Production of Vermicompost	01	01											
KWD	FW	ONC	Horticulture (Vegetable Crops)	Mushroom Cultivation	Mushroom Cultivation	01	01											
KW	FW	OFC	Horticulture (Vegetable Crops)	Off season vegetables	Badi Cultivation	01	01											

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				
D																			
KW D	FW	OFC	Horticulture (Vegetable Crops)	Nursery raising	Nursery Raising of Vegetable crops	01	01												
KW D	FW	ONC	Horticulture (Vegetable Crops)	Mushroom Cultivation	Mushroom Cultivation	01	01												
KW D	FW	ONC	Horticulture (Vegetable Crops)	Crop production	Vegetable production	1	1												
KW D	FW	ONC	Horticulture (Vegetable Crops)	Vegetable production	Homestead Farming & Vegetable Production	01	01												
KW D	FW	OFC	Horticulture (Vegetable Crops)	Mushroom Production	Mushroom Production	02	02												
KW D	FW	OFC		Mushroom Production	Mushroom Production	01	01												
KW D	FW	ONC	Horticulture (Fruits)	Management of young plants/orchards	Nursery plant production and Management of Fruit orchard	01	01												
KW D	F&FW	ONC	Horticulture(Plantation crops)	Processing and value addition	Fruit and Vegetable preservation	01	01												
KW D	F&FW	ONC	Horticulture(Spices)	Processing and value addition	Spices preservation	01	0												
KW D	F&FW	ONC	Soil Health and Fertility Management	Soil & water testing	Soil Health and Fertility Management	01	01												
KW D	F&FW	ONC	Soil Health and Fertility Management	Organic Farming	Integrated farming system	01	01												
KW D	F&FW	ONC	Livestock Production and Management	Dairy Management	Integrated farming system	01	01												
KW D	F&FW	ONC	Livestock Production and Management	Poultry Management	Integrated farming system	1	1												
KW	F&FW	OFC	Plant Protection	Integrated Pest Management	Insect Pest of	1	1												

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			
D					Oilseed Crops													
KWD	F&FW	ONC	Plant Protection	Integrated Disease Management	Disease and Insect of Pulse crop	1	1											
KWD	F&FW	ONC	Plant Protection	Biocontrol of pests and diseases	Use of Trichoderma in Pulses crop	1	1											
KWD	F&FW	OFC	Plant Protection	Production of bio control agents and bio pesticides	Trichoderma Production	1	1											
KWD	F&FW	OFC	Plant Protection	Mushroom production	Mushroom production	1	1											
KWD	F&FW	ONC	Plant Protection	Integrated Pest Management	Insect Pest of Sugarcane	1	1											
KWD	F&FW	OFC	Plant Protection	Disease and Pest Management	Disease and Pest Management of IFS	1	1											
KWD	F&FW	OFC	Plant Protection	Mushroom production	Mushroom production	1	1											
KWD	F&FW	ONC	Plant Protection	Others (Pl. Specify) Integrated Farming System	Disease and Pest Management of IFS	1	1											
KWD	F&FW	ONC	Fisheries	Others (Pl. Specify) Integrated Farming System	Integrated farming system	1	1											

**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
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
Kawardha	RY	ONC	Nursery Management of Horticulture crops	Nursery Managem	01	01								

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
				ent										
Kawardha	RY	ONC	Training and pruning of orchards	pruning of orchards	01	01								
Kawardha	RY	OFC	Protected cultivation of vegetable crops	Protected cultivation of vegetable crops	01	01								
Kawardha	RY	ONC	Commercial fruit production	Commercial fruit production	01	01								
Kawardha	RY	OFC	Integrated farming	Integrated farming	01	01								
Kawardha	RY	OFC	Seed production	Seed production	01	01								
Kawardha	RY	OFC	Production of organic inputs	Production of organic inputs	01	01								
Kawardha	RY	ONC	Planting material production	Planting material production	01	01								
Kawardha	RY	OFC	Vermi culture	Vermi culture	01	01								
Kawardha	RY	OFC	Mushroom Production	Mushroom Production	01	01								
Kawardha	RY	OFC	Value addition	Value addition	01	01								

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

Name of KVK	Category (IS)	Training Type (ONC/OFC)	Thematic Area of training (if other please specify name)	Training Title	No. of Courses	Duration (Days)	Participants								
							Gen		SC		ST		Others		
							M	F	M	F	M	F	M	F	
1	2	3	4		6	7	8	9	10	11	12	13	14	15	
Kawardha	IS	ONC	Productivity enhancement in field crops	Crop Production	1	1									
Kawardha	IS	OFC	Integrated Pest Management	Pest Management in Cereal crop	1	1									
Kawardha	IS	OFC	Integrated Nutrient management	Fodder & Vermi Compost Production Technology under NGGB Scheme on	1	1									
Kawardha	IS	OFC	Rejuvenation of old orchards	Crafting and budding	1	1									
Kawardha	IS	OFC	Protected cultivation technology		1	1									
Kawardha	IS	OFC	Production and use of organic inputs	Fodder, Nadep & Vermi Compost Production Technology under NGGB Scheme on	1	1									
Kawardha	IS	OFC	Information networking among farmers	Aware of Crop Doctor Apps and its Uses	1	1									



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

Name of KVK	Thematic Area	Sub Theme	Training title	Name of Crop / Enterprise	Identified Thrust Area	No of Courses	Duration of training (days)	Number of Beneficiaries										
								Gen		SC		ST		Others				
								M	F	M	F	M	F	M	F			
Kawardha	<b>Crop production and management</b>	Crop production (SRI)	Nursery management	Crop production	Crop production	01	5											
Kawardha	<b>Crop production and management</b>	Commercial fruit production	fruit production	Fruit production	Income Generation	01	5											
Kawardha	<b>Crop production and management</b>	Commercial vegetable production	vegetable production	vegetable production	Crop production	01	5											
Kawardha	<b>Crop production and management</b>	Integrated crop management	Integrated crop management	Crop production	Crop production	01	5											
Kawardha	<b>Crop production and management</b>	Production Technology of <i>Trichoderma</i>	<i>Trichoderma</i> Production	<i>Trichoderma</i>	Disease Management	01	5											
Kawardha	<b>Income generation activities</b>	Vermi-composting	Vermi-composting	Organic Farming	Income Generation	01	5											
Kawardha	<b>Income generation activities</b>	Mushroom cultivation	Oyster Mushroom Production Technology	Mushroom	Income Generation	01	5											
Kawardha	<b>Income generation activities</b>	Nursery, grafting etc.	Nursery management	Vegetable Production	Income Generation	01	5											

**Table 5.5. Sponsored Training Programmes**

Name of KVK	Client (F & FW/ FW/ RY/ IS)	Title	Thematic area	Sub-theme	Training Title	Duration (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
								Gen		Others		SC		ST			
								M	F	M	F	M	F	M	F		
KWD	FW	Nursery Management	<b>Crop production and management</b>	Increasing production and productivity of crops	Management of agriculture crop	1	1										
KWD	FW	Seed Production	<b>Crop production and management</b>	Increasing production and productivity of crops	Seed production of Pulses crop	1	1										
KWD	FW	Integrated crop management	<b>Crop production and management</b>	Increasing production and productivity of crops	Management of agriculture crop	1	1										
KWD	FW	Production of organic inputs	<b>Crop production and management</b>	Increasing production and productivity of crops	Use organics in Crop production	1	1										
KWD	FW	Seed Production	<b>Crop production and management</b>	Increasing production and productivity of crops	Seed production and management	1	1										
KWD	FW	Vegetable production technology	<b>Crop production and management</b>	Commercial production of vegetables	Commercial production of vegetables	1	1										
KWD	FW	Vegetable production technology	<b>Crop production and management</b>	Production and value addition	Production and value addition of Horticulture crop	1	1										
KWD	FW	Micro irrigation systems	<b>Crop production and management</b>	Fruit Plants	Use of Micro irrigation systems in Fruit Plants	1	1										
KW	FW	Production and	<b>Crop production and</b>	Ornamental plants	Production	1	1										

Name of KVK	Client (F & FW/ FW/ RY/ IS)	Title	Thematic area	Sub-theme	Training Title	Duration (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
								Gen		Others		SC		ST			
								M	F	M	F	M	F	M	F		
D		use of Ornamental plants	<b>management</b>		and use of Ornamental plants												
KW D	FW	Methods used for Value addition of spices crop	<b>Crop production and management</b>	Spices crops	Value addition of spices crop	1	1										
KW D	FW	Soil health and fertility management	<b>Crop production and management</b>	Soil health and fertility management	Use of proper fertility at soil	1	1										
KW D	FW	Use of net shed house for protective cultivation	<b>Crop production and management</b>	Methods of protective cultivation	Nursery management in Protected cultivation	1	1										
KW D	FW	Value addition of jiggery	<b>Crop production and management</b>	Value addition of jiggery	Production and value addition of Jiggery unit	1	1										
KW D	FW	Integrated Pest Management	<b>Crop production and management</b>	Integrated Pest Management	Integrated Pest Management	1	1										
KW D	FW	Production of bio control agents and bio pesticides	<b>Crop production and management</b>	Production of bio control agents and bio pesticides	Production of bio control agents and bio pesticides	1	1										
KW D	FW	Insect Pest of Sugarcane	<b>Crop production and management</b>	Insect Pest of Sugarcane	Insect Pest of Sugarcane	1	1										
KW D	FW	Diseases of Sugarcane	<b>Crop production and management</b>	Diseases of Sugarcane	Diseases of Sugarcane	1	1										
KW D	FW	Diseases of Vegetable crop	<b>Crop production and management</b>	Diseases of Vegetable crop	Diseases of Vegetable crop	1	1										

Name of KVK	Client (F & FW/ FW/ RY/ IS)	Title	Thematic area	Sub-theme	Training Title	Duration (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
								Gen		Others		SC		ST			
								M	F	M	F	M	F	M	F		
KWD	FW	Disease and Insect of Pulse crop	<b>Crop production and management</b>	Disease and Insect of Pulse crop	Disease and Insect of Pulse crop	1	1										
KWD	FW	Diseases of Oiiseed crop	<b>Crop production and management</b>	Diseases of Sugarcane	Diseases of Oiiseed crop	1	1										

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

Name of KVK	Training title	Self employed after training			Number of persons employed elsewhere
		Type of units	Number of units	Number of persons employed	
Kawardha	Integrated Farming System	IFS Units			
Kawardha	Integrated Farming System	IFS Units			
Kawardha	Integrated Farming System	IFS Units			
Kawardha	Integrated Farming System	IFS Units			
Kawardha	Integrated Farming System	IFS Units			

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

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		
Kawardha	NGGB	Crop Production	Fodder	FW	01	1										
Kawardha	NGGB	Badi Development	Vegetable production	FW	01	1										
Kawardha	NGGB	Vermi compost Production	Organic Manure Production	FW	01	1										
Kawardha	NGGB	Water Conservation	Construction of stape dam	FW	01	1										

**Table 5.8 Subject area wise details of women farmer specific training programmes organized by KVKs during Jan-Dec-2021**

Area of Training	Jan-Dec-2021	
	Courses	Participants
Household food security by kitchen gardening and nutrition gardening	02	
Design and development of low/minimum cost diet	-	
Designing and development for high nutrient efficiency diet	03	
Minimization of nutrient loss in processing	02	
Processing and cooking	02	
Gender mainstreaming through SHGs	02	
Storage loss minimization techniques	01	
Value addition	02	
Women empowerment	01	
Location specific drudgery reduction technologies	03	
Rural Crafts	01	
Women and child care	04	
Others-Agro-Based IGP programme Training Exposure on Sustainable Agriculture	01	

**Table 5.9 Subject area wise details of other than women farmer specific training programmes organized by KVKs during Jan-Dec-2021**

Area of Training	Jan-Dec-2021	
	Courses	Participants
Crop Production	05	
Horticulture	05	
Soil Health and Fertility Management	03	
Livestock Production and Management	02	
Plant Protection	05	
Fisheries	01	
Production of Input at site	04	
Capacity Building and Group Dynamics	02	
Agro forestry	01	

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

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs./ha or Rs./ year)		Impact on		
			Before	After	Before	After	Before	After	% change in knowledge, production & Income	No. of farmers/farm women adopted (no.)	No. of unit established/Area expanded (ha)
Kawardha	Trichodermma Production Technology										
Kawardha	Mushroom Production										
Kawardha	Seed production of Pigeon pea										
Kawardha	Vermi culture										
Kawardha	Nursery Management of Horticultural crops										
Kawardha	Seed production of Chickpea										
Kawardha	Soil Health Management										
Kawardha	Integrated Farming System										
Kawardha	Sugarcane Production Technology										

## 6. EXTENSION ACTIVITIES

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
Kawardha	Agri mobile clinic	40												
Kawardha	Animal Health Camp	02												
Kawardha	Awareness programme	25												
Kawardha	Celebration of important days	15												
Kawardha	Diagnostic visits	50												
Kawardha	Exhibition	04												
Kawardha	Exposure visits	06												
Kawardha	Ex-trainees Sammelan	10												
Kawardha	Farm advisory Services	40												
Kawardha	Farmers visit to KVK	2000												
Kawardha	Field Day	10												
Kawardha	Group meetings	12												
Kawardha	Kisan Ghosthi/Sammelan	15												
Kawardha	Kisan Mela	02												
Kawardha	Krishi Mahotsav	02												
Kawardha	Lectures delivered as resource persons	05												
Kawardha	Mahila Mandals conveners meetings	05												
Kawardha	Method Demonstrations	17												
Kawardha	Pradhanmantri phasal beema yojana	04												
Kawardha	Scientific visit to farmers field	55												
Kawardha	Self Help Group conveners meetings	05												
Kawardha	Soil health Camp	02												
Kawardha	Soil test campaigns	01												
Kawardha	Technology Week	10												
Kawardha	Radio talks	05												
Kawardha	Extension literature	05												

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
Kawardha	TV talks	00												
Kawardha	Newspaper coverage	80												
Kawardha	Film Show	04												
Kawardha	Others	-												

### Mass media used for wide publicity

Name of media	Number of events	Name of channel/ Newspaper used	Place of delivery or publication	Coverage of the media ( Local/ Regional/National)
Radio talks	04			
TV talks	01			
Newspaper coverage	80			
Internet (Youtube)	02			
Social media (Whats App, Facebook, Instagram, Twitter etc.)	05			



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

### 7.1 KVK Newsletters (Jan to Dec. 2021)

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.)
Kawardha	January to March 2021	Q1	1000		
Kawardha	April to June 2021	Q2	1000		
Kawardha	July to September 2021	Q3	1000		
Kawardha	October to December 2021	Q4	1000		

### 7.2 Literature developed/published

KVK Name	Type	Number of copies (please don't give mass please fill number only)
Kawardha	Abstract	05
Kawardha	Book	
Kawardha	Book Chapter	
Kawardha	Booklet	
Kawardha	Leaflets/ Folder/ Pamphlet	11
Kawardha	Popular article	5
Kawardha	Technical Bulletin	4
Kawardha	Training Manual	2
Kawardha	Technical Report	12

KVK Name	Type	Number of copies (please don't give mass please fill number only)
Kawardha	Year Planner	1
Kawardha	Others (pl. specify)	18

**Research paper /Review paper published during Jan to Dec. 2021**

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

**7.3 Details of Electronic Media Produced**

KVK Name	Type of media (CD/DVD)	Title of the programme	Number
Kawardha	DVD		10

## 8. Production and supply of Technological products

### 8.1 SEED production

KVK Name	Crop Category	Name of Crop	Variety	Quantity (qt.)	Value (Rs.)	Provided to no. of Farmers/society	Expected area coverage (ha.)
Kawardha	Oilseed	Soybean	JS 2069	50.00			
Kawardha	Pulse	Pigeon pea	Rajiv lochan	100.00			
Kawardha	Pulse	Green gram	Pairi mung	10.00			
Kawardha	Pulse	Chickpea	RVG-202	500.00			
Kawardha	Pulse	Lathyrus	Mahateora	50.00			

### 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.)
Kawardha	Vegetable			50000			

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

\* Name of product should follow same pattern

KVK Name	List of Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Qty (in Kg)	Qty (in No.)	Value (Rs.)	Provided to no. of Farmers	Expected area coverage (ha.), if applied
Kawardha	Bio Fertilizers	Non Symbiotic Azotobacter					
Kawardha		Vermicompost	5000.00				
Kawardha		Azolla	50				
Kawardha		Earthworms					
Kawardha		Compost					
Kawardha		Blue green algae					
Kawardha		NADEP	50.00				
Kawardha		Sanjeevani Khad					
Kawardha		Acetobactor					
Kawardha		Aspergillus					
Kawardha		Azatobactor					
Kawardha		Azospirillum					
Kawardha		Phosphate solublizing Bacteria					
Kawardha		Rhizobium					
Kawardha		Other (pl. sp.)					
Kawardha	Bio-Food	Spirulina					
Kawardha		Honey	10.00				
Kawardha		Any Other (pl. sp.)					

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	
Kawardha	<b>Bio Pesticides</b>	Neem extract						
Kawardha		Neem powder						
Kawardha		Tobacco extract						
Kawardha		Trichoderma viride	500.00					
Kawardha		Trichoderma harjinum						
Kawardha		Trichogramma chilonis						
Kawardha		Beauveria bassiana						
Kawardha		Metarhizium anisopliae						
Kawardha		Pseudomonas fluorescens						
Kawardha		SINPV						
Kawardha		HaNPV						
Kawardha		GF1						
Kawardha		Baco Lures						
Kawardha		Heli Lures						
Kawardha		Leucin Lures						
Kawardha		Paecilomyces						
Kawardha		Panchagavya						
Kawardha		Verticillium						
Kawardha		<b>Bio Agents (Tricho card)</b>	Trichogramma chilonis					
Kawardha			Chrysoperla carnea					
Kawardha	Tricho card							
Kawardha	Any other <b>(Pl. Specify)</b>							
Kawardha	<b>Bio Agents (Pyrilla parasitoids)</b>	Ooincirtus papilionis						
Kawardha		Epiricania melanolauca						
Kawardha	<b>Bio Agents(Worms)</b>	Assinia foetida						
Kawardha		Eudrilus eugeniae						
Kawardha		Euclnia Uginae						
Kawardha		Eisenia foetida						

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
Kawardha	Others	Earth worm					
Kawardha		Any other (pl. specify)					
Kawardha		Mushroom spawn					
Kawardha		Mineral Mixture					
Kawardha		Cow dung (dry)		5000.00			
Kawardha		Any other (pl. specify)					
Kawardha							

#### 8.4 Livestock and fisheries production

KVK Name	Type	Name of the animal / bird / aquatics	Breed	Type of Produce	Quantity		Value (Rs.)	No. of Beneficiaries
					unit (kg/qt./liter/no)	Qty.		
Kawardha	Dairy animals	Cow	Sahiwal	Milk				
Kawardha		Calves						
Kawardha		Goats						
Kawardha		Buffaloes						
Kawardha		Sheep						
Kawardha		Breeding bull						
Kawardha		Other (pl specify)						
Kawardha	Poultry	Poultry	Kadaknath	Chicken				
Kawardha		Japanese quail						
Kawardha		Japanese quail eggs						
Kawardha		Ducks	Khakikamble	Chicken				
Kawardha		Turkey						
Kawardha		Other						
Kawardha	Piggery	Piglets						

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.		
Kawardha		Boar						
Kawardha		Sow						
Kawardha		Other (pl specify)						
Kawardha	Fisheries	Indian carp	Rohu,katla					
Kawardha		Exotic carp						
Kawardha		Other (pl specify)						

## 9. Activities of Soil and Water Testing Laboratory

### 9.1 Details of soil samples analyzed during Jan to Dec. 2021:

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								
Kawardha	Yes	Sanc tioned	Procu red	1500											

9.2 Details of water samples analyzed so far :

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

10. Rainwater Harvesting

10.1. Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Name of KVK	Date	Title of the training course	Client (PF/RV/EF)	No. of Courses	No. of Participants								
					SC		ST		Other		General		Total
					Male	Female	Male	Female	Male	Female	Male	Female	
Kawardha		Energy & Water Conservation	RY	1									
Kawardha		Best Practice of Water Conservation	RY	1									
Kawardha		Energy & Water Conservation	RY	1									

10.2. Information of Visit in Rainwater Harvesting Demonstration Unit

Name of KVK	No. of Training programmes under Rain water Harvesting	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)
Kawardha	02		1000		

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

Name of KVK	Date	Title of the training course	Client	No. of Courses	No. of Participants								
					SC		ST		Other		General		Total
					Male	Female	Male	Female	Male	Female	Male	Female	
Kawardha		Use of Drip system in Vegetable	RY	02									



		production											
Kawardha		Use of Drip system in Crop production	RY	02									

### 12. Utilization of Farmers Hostel facilities

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

### 13. Utilization of Staff Quarters facilities

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

### 14. Details of SAC Meeting during Jan to Dec. 2021

KVK Name	Date of SAC meeting 2021	No. of SAC members (only) attended	Major action points*
Kawardha			

\*Attached separate file.

### 15. Footfall of farmers in KVKs (Jan. 2021 to Dec. 2021)

Name of KVK	Footfall during 2021			
	No. of Farmers	No. of officials	No. of VIPs	Total
Kawardha				

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

KVK	S. No.	Thematic area	Particulars	No of Calls	No of Messages sent	No. of farmers received messages	Total no of villages in District	No of village Covered by KVK through KMA
Kaw ard ha	1	Crop Management	Crop Production Technology					
			Integrated Farming					
			Field Preparation					
			Any Other (Specify)					
	2	Weather	Advisory					
			Change in variety					
			Change in Sowing technique					
			Climate forecast					
			Any Other (Specify)					
	3	Soil Management	Soil Testing					
			INM					
			Fertilizer Application					
			Vermicomposting/ bio-waste recycling					
			Bio-fertilizer					
			Any Other (Specify)					
	4	Disease & Pest Management	Disease Management					
			Pest Management					
			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						

KVK	S. No.	Thematic area	Particulars	No of Calls	No of Messages sent	No. of farmers received messages	Total no of villages in District	No of village Covered by KVK through KMA
			Entrepreneurship & Income Generation					
			Advisory					
			Any Other (Specify)					
	6	Horticulture	Vegetable					
			Fruit					
			Hi Tech Horticulture					
			Any Other (Specify)					
	7	Livestock	Feed and Fodder					
			Dairy Management					
			Fisheries					
			Poultry Management					
			Vaccination & Disease management					
			Any Other(Specify)					
	8	Farm Mechanization						
	9	Extension						
	10	Organic Farming						
	11	Marketing						
	12	Awareness						
	13	Other Enterprise						
	14	Any Other(Specify)						

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

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received (Rs.)	Name of activities organized	Name of operational Area and acreage (ha.)	Present status (Functional/Non functional)
Kawardha	ATMA					
Kawardha	MNREGA					
Kawardha	NHM					

Kawardha	RKVY				
Kawardha	Seed Hub				
Kawardha	NFSM				
Kawardha	NMOOP				
Kawardha	Zila Panchyat				
Kawardha	Seed Village				

### 18. Status of Contingency Utilization Jan-Dec-2021

Name of KVK	Total Contingency allotted (Rs.)	Fund used by KVKs (Rs)			Balance (Rs.)
		Activities	No of Activities	Exp (Rs)	
Kawardha		OFT			
		FLD (other than CFLD)			
		Training			
		Extension Activities			
		SAC Meeting			
		Special Programme (Pl. Specify)			
		Others (Pl. Specify)			

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

KVK Name	Account No.	Opening balance on 01 .01.2021 (Rs.)	Closing balance 31.12.2021 (Rs.)	Name of major source of revolving fund
Kawardha	288801100365			

### 20. Awards & Recognitions

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

**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
500.00	Cereals			
350.00	Oilseeds			
100	Pulses			
50	Pulses			

**22. Farm Innovators- list of 10 Farm Innovators from the District\***

Sr. No.	Name of KVK	Name of Farm Innovator	Name of the Innovation	Address of the farm innovator with pin code	Mobile No.
1	Kawardha				
2	Kawardha				
3	Kawardha				
4	Kawardha				
5	Kawardha				
6	Kawardha				
7	Kawardha				
8	Kawardha				
9	Kawardha				
10	Kawardha				

**\*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
Kawardha		

#### 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
Kawardha	04	04				

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, and Awareness programmes etc.

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

KVK Name	Name of crop under Technology demonstration	Area under the programme/ Demonstration	No. of Farmers benefited	No of Villages Covered	No. of Extension Activities	No. of Farmers benefited by extension activities	Results/ Observation *
Kawardha							

\*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	
Kawardha	Bemetara				
Kawardha	Rajnandgoan				

#### 27. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Kawardha						

#### 28. Status of KVK Website during Jan to Dec. 2021

S.No	Name of KVK	Date of start of website	Address of Website	No. of updates during 2020	No. of visitors during 2020
Kawardha					

**29. Status of Mobile Apps developed by KVK**

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

**30. Status of RTI**

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

**31. Status of Citizen Charter**

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

**32. Participation in HRD Programmes organized by ATARI**

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

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

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

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

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

#### 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)
Kawardha					

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

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

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

#### 36. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock /technology
Kawardha	Gosthies	10		
Kawardha	Lectures organized	05		
Kawardha	Exhibition	02		
Kawardha	Film show	03		
Kawardha	Fair	-		
Kawardha	Farm/ Field Visit	52		
Kawardha	Diagnostic Practical's			
Kawardha	Distribution of Literature (No.)	04		
Kawardha	Distribution of Seed (q)	710.00		
Kawardha	Distribution of Planting materials (No.)	50000		



Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock /technology
Kawardha	Bio Product distribution (Kg)	500		
Kawardha	Distribution of Bio Fertilizers (q)	10000		
Kawardha	Distribution of fingerlings	2000		
Kawardha	Distribution of Livestock specimen (No.)	1555		
Kawardha	Total number of farmers visited the technology week	1500		
Kawardha	Animal health camp	04		
Kawardha	Awareness programme	03		
Kawardha	Demonstration	19		
Kawardha	Exposure visit	05		
Kawardha	Ex-trainees Meet	08		
Kawardha	Farmer scientist interaction	50		
Kawardha	Farmers Training	87		
Kawardha	Gajarghans Unmulan Pakhwada	07		
Kawardha	Group Meeting	10		
Kawardha	Jai Kisan Jai Vigyan Sangosthi	02		
Kawardha	Plant Protection Week	05		
Kawardha	Seed treatment campaign	6		
Kawardha	Self Help Group convener meet	50		
Kawardha	Soil health Camp	02		
Kawardha	Swachata Bharat Abhiyan	20		
Kawardha	Others (Pl. Specify)	10		

### 37. INTERVENTIONS ON DROUGHT MITIGATION

#### Introduction of alternate crops/varieties

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

#### Farmers-scientists interaction on livestock management

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

#### Animal health camps organized

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

#### Seed distribution in drought hit area

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

#### Seedlings and Saplings distributed

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

### Bio-control Agents

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

### Bio-Fertilizer

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

### Worms Produced

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

### Large scale adoption of resource conservation technologies

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

### 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
Kawardha												

## 38. Activities for Sansad Adarsh Gram

### Information about Sansad Adarsh Gram

Name of KVK	Block	Village
Kawardha	Bodla	Rajanawagoan

### 1. Technologies to be Demonstrated

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

### 2. Extension Activities

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

### 3. Training Programme

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

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

<b>Name of the KVK</b>	
<b>TITLE</b>	
<b>Introduction</b>	
<b>KVK intervention</b>	
<b>Output</b>	
<b>Outcome</b>	
<b>Impact</b>	

**(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>Kawardha</b>		