

ANNUAL ACTION PLAN

IGKV & CGKV KVKs

2024



**ICAR-Agricultural Technology Application Research Institute,
Indian Council of Agricultural Research
Zone IX, Jabalpur, M.P.**

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ANNUAL ACTION PLAN 2024

KVK Balod

Year of sanction: 2018

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. KR Sahu	Krishi Vigyan Kendra, Balod	9424281253	Kvk.balod@igkv.ac.in

1.2 Staff Position on (31th Dec.2024)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. K.R. Sahu	Sr. Scientist and Head	Ag. Entomology	167200	01/04/2003	18/02/2019	9424281253	khoobi_ento@yahoo.co.in	
2	Subject Matter Specialist	Dr. Baldev Agrawal	Subject Matter Specialist	Horticulture	78000	07/09/2012	12/09/2018	9179060237	bal.ag@rediffmail.com	
3	Subject Matter Specialist	Shri A.R. Gour	Subject Matter Specialist	Soil Science	78000	12/09/2012	03/10/2018	9009447363	alakhgoursoil@gmail.com	
4	Subject Matter Specialist	Shri Sachin Verma	Subject Matter Specialist	Agronomy	67000	23/09/2014	16/08/2021	9179495849	sachin.verma.k@gmail.com	
5	Subject Matter Specialist	Er. Geetesh Sinha	Subject Matter Specialist	APFE	63100	06/10/2018	06/10/2018	8319646757	geeteshsinha20@gmail.com	
6	Subject Matter Specialist	Dr. Bhimeshwari Sahu	Subject Matter Specialist	Plant Pathology	56100	13/09/2023	13/09/2023	7987709788	bhimusahu1990@gmail.com	
7	Subject Matter Specialist	Dr. Neetu Sonkar	Subject Matter Specialist	LPM	56100	15/09/2023	15/09/2023	8770595231	neetusonkar028@gmail.com	
8	Programme Assistant	Mrs. Deepshikha Manu Chandrakar	Programme Assistant	Plant Pathology	47200	30/10/2014	25/08/2018	9691500044	deepshikhamanu@gmail.com	

9	Computer Programmer/ Programme Assistant	Shri K.K. Lahre	Programme Assistant	Computer	51600	21/09/2012	06/02/2021	9753391419	kglahre@gmail.com	
10	Farm Manager	Vacant	-	-	-	-	-	-	-	-
11	Assistant	Shri Upendra Kumar Ramteke	AG-I	MA	28500	08/05/2013	18/03/2024	6263881388	-	
12	Jr. Stenographer / Comp. Operator	Shri Rajesh Kumar	AG-II	-	23350	03/11/2023	03/11/2023	8085928933	-	
13	Driver	Shri Vinod Kumar Paikra	Driver	-	32100	25/04/2008	15/07/2019	8103783332	-	
14	Driver	Shri Thaneshwar Sahu	Driver	-	18000	13/10/2023	13/10/2023	7898788804	-	
15	Supporting staff	Shri Nurendra Sahu	Peon	-	14400	07/11/2023	07/11/2023	9584337660	-	
16	Supporting staff	Smt. Hemalata	Peon	-	14400	31/03/2024	31/03/2024	7879249636	-	

1.3 Total land with KVK (in ha): 18.28

S. No.	Item	Area (ha)
1	Under Buildings	0.4
2	Under Demonstration Units	2.5
3	Under Crops	12.0
4	Orchard/Agro-forestry	-
5	Others (specify): Pond, Canal, Road, Garden	3.38
Total		18.28

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	-	-	-	12/03/2020	856.22	Constructed
2	Farmers Hostel	ICAR	-	-	-	13/07/2020	470.41	Constructed
3	Staff Quarters (6)	-	-	-	-	-	-	-
4	Demonstration Units (3)	NHM	-	-	-	11/01/2022	240.0	Constructed
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	ICAR	-	-	-	18/10/2020	283.75	Constructed

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2019	8,00,000	1309.0 hour	Working
Motor Cycle 2	-	-	-	-
Bolero (Jeep)	2021	8,00,000	94215 kms	Working
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Cultivator	2019	30,000	Working
Zero tillage seed cum fertilizer drill	2019	1,20,000	Working
Planker	2023	20,000	Working

1.5 (A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	Third week of the June'2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Rice- fallow
2	AES – 2	Rice- chickpea
3	AES – 3	Veg- Veg
4	AES – 4	Bund Farming
5	AES – 5	Maize – fallow
6	AES – 6	sugarcane – fallow

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 Rice- Fallow	
2	AES – 2 Rice – chick pea	
3	AES – 3 Year round vegetable	
4	AES – 4 Bund Farming	
5	AES – 5 Maize – fallow	
6	AES – 6 sugarcane – fallow	

**SWOT Analysis of each Agro-Ecological Situations of district
AES-1 (name) Rice- fallow**

Strength	Weakness	Opportunities	Threats
Good for soil health	only one crop in a year	New crops can be introduce	Poor economic condition of farmer

AES-2 (name) Rice – chick pea

Strength	Weakness	Opportunities	Threats
Two crop in low investment	Low income as compare to vegetable farming	Crops can be changed easily in high enumerative crop	Poor economic condition of farmer

AES-3 (name) year round vegetable

Strength	Weakness	Opportunities	Threats
More income	Marketing problems of produce	Few varieties and high enumerative crops can be introduced	Intensive care needed to crops

AES-4 (name) bund farming

Strength	Weakness	Opportunities	Threats
Extra income	Income dependent on availability of bunds	‘ 000 of acre occupied by bunds there is no crops	Bund farming management is difficult

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	352.70
Forest	97.82
Waste Land	183.70
Other than cultivated area	35.16
Cultivable waste and alkaline land	97.82
Pastures	27.28
Current Fallow	106.38
Other Fallow	11.65
Agricultural Land	281.52
Area Sown	252.12
Kharif	178.49
Rabi	73.63
Cropping Intensity	139%

(Source- Department of Agriculture and Bio technology, Balod, 2023-24)

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	258559
2	Well	1872
3	Tube well	37549
4	Ponds	6794
5	Others	610

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Vertisol (Kanhar)	Clayey heaver deep, dark gray brown to black colour, Very wide cracks, pH -5.8 to 6.8	76085
2	Alfisol (Dorsa)	Clay loam, medium to moderate deep, red and brownish gray colour , pH -5.2 to 6.0	42544
3	Inceptisol (Matasi)	Sandy loam, medium shallow deep, yellow colour, pH- 5.4-5.8	36759
4	Entisol (Bhata)	Gravelly course loamy to Sandy, Very shallow, reddish to dark reddish colour, pH- 5.4-5.4	21346

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Rice	175.36	480.49	2740
2	Millets	0.97	0.93	747
3	Maize	0.12	7.92	2403
4	Wheat	2.651	3.224	1470
5	Black Gram	0.53	0.23	558
6	Pigeon Pea	0.46	0.31	705
7	Green Gram	0.11	0.07	580
8	Lathyrus	18.71	24.006	475
9	Chickpea	8.27	12.583	945
11	Sesamum	0.002	0.044	400
12	Linseed	0.291	0.195	555
13	Mustard	1.448	2.154	675
14	Safflower	0.011	0.007	462

(Source: Department of Agriculture, Balod (Year 2023-24))

Major Fruit Crops of Balod District

S. No.	Name of fruit	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Mango	1282.00	4987	3.89
2	Banana	450.00	12712	28.25
3	Guava	330.00	2805	8.50
4	Lemon	246.00	1651	6.71
5	Papaya	200.00	8052	40.26
6	Ber	105.00	725	6.90
7	Sweet Orange	31.00	230	7.42
8	Orange	19.00	125	6.53

Source: Department of Horticulture, Balod (Year 2023-24)

Major Vegetable Crops of Balod District

S. No.	Name of vegetable	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Tomato	2165.00	55770	25.76
2	Cabbage	1522.00	32403	21.29
3	Brinjal	1385.00	35622	25.72
4	Cauliflower	1280.00	26112	20.40
5	Okra	950.00	6289	6.62
6	Bottle gourd	572.00	14432	25.23
7	Bitter gourd	542.00	6504	12.00
8	Cow pea	538.00	8170	15.19

Source: Department of Horticulture, Balod (Year 2023-24)

Major Spice crops of Balod District

S. No.	Name of vegetable	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Chili	490.00	4780	23.90
2	Coriander	425.00	4305	10.13
3	Turmeric	285.00	4216	14.79
4	Ginger	200.00	4780	23.90
5	Garlic	89.00	215	14.79

Source: Department of Horticulture, Balod (Year 2023-24)

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 2023	10.16	26.2	15.8
Feb, 2023	12.70	30.1	18.6
Mar, 2023	10.16	34.3	22.8
Apr, 2023	17.78	38.6	27.5
May, 2023	30.48	40.1	28.9
Jun, 2023	337.5	33.4	28.1
July, 2023	340.0	29.6	25.5
Aug., 2023	104.9	29.1	25.0
Sept., 2023	178.2	30.7	24.8
Oct. 2023	3.32	29.9	22.2
Nov. 2023	8.06	28.2	18.0
Dec. 2023	0.0	26.8	15.0

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	336477	62.24 MT.	-
Buffalo	30153	11.23 MT.	-
Sheep			
<i>Crossbred/ Indigenous</i>	5610	Nil MT wool	-
Goats	54331	5.325 MT	-
<i>Pigs Crossbred/ Indigenous</i>	2137	Nil	-
Rabbits	Nil	Nil	-
Poultry			
Hens	1124835	88.71 Lakh eggs	155 eggs/ bird/yr
Turkey and others	25476	Nil	-
Category	Area	Production	Productivity
Fish	350 (ha)	2200 Q/ month	- Q/ ha.

Source: Department of Veterinary Science, Balod (Year 2023-24)

Details of Operational area / Villages (2024)

S. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Gunderdehi	Gunderdehi	Iraguda	Rice,	High cost of cultivation	Reduce cost of cultivation
2	Gunderdehi	Gunderdehi	Pairi	Rice	High cost of cultivation	Reduce cost of cultivation
3	Gunderdehi	Gunderdehi	Khapri	Rice, Lathyrus, Mustard	Low yield due to imbalance fertilizers	Use of additional liquid fertilizers and Biofertilizers and Reduce cost of cultivation throgh Natural farming practices
4	Gunderdehi	Gunderdehi	Charachar	Rice, Lathyrus, Mustard	Low yield due to imbalance fertilizers	Use of additional liquid fertilizers and Biofertilizers and Reduce cost of cultivation throgh Natural farming practices
5	Balod	Balod	Jamarua	Rice, Mustard	Use of only chemical fertilizers	Integrated nutrient management
6	Balod	Balod	Aroud	Rice, Linseed	Use of only chemical fertilizers	Integrated nutrient management

S. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
7	Dondilohara	Dondilohara	Kamkapar	Rice, Finger millets	High cost of cultivation	Reduce cost of cultivation
8	Dondilohara	Dondilohara	Siwani	Rice, Finger millets	High cost of cultivation	Reduce cost of cultivation
9	Balod	Balod	Piperchhedi	Chickpea	Wilt disease	Reduce disease incidence
10	Balod	Balod	Orama and Bhothli	Chilly	Chilli leaf curl virus	Using only single insecticide to control of chilly leaf curl virus vector (white fly)
11	Balod	Balod	Newarikala	Milch cow	Low milk production due to intestinal worm infestation	Use of neem leaves (<i>Azadirachta indica</i>) and jaggery to control intestinal worm infestation and increase milk production
12	Balod	Balod	Bodaki	Calf	Mortality in calves due to pneumonia and diarrhea	Health management practices to reduce mortality in calves
13	Balod	Balod	Latabod	Mushroom	Burning of byproduct of crops	Use by product of crops by mushroom production.
14	Gurur	Gurur	Kaparmeta	Rice	Heavy use of insecticides for management of stem borer	Use of karada leaves under ITK for management of stem borer.

Priority / Thrust areas

S. No.	Particulars
1	Rice – fallow cropping system cover vast area in the district due to lack of sufficient irrigation
2	Horizontal spreading of Natural farming in different crops.
3	High yielding variety of cereals, pulses, oil seed and Minor millets should be encouraged.
4	Farm Mechanization and Introduction of improved Farm implements.
5	Improved production technology for Rice and chickpea crop under rain fed and irrigated conditions.
6	Promotion of processing based crop production particularly horticultural crops (Fruit, Vegetable & Flower) and sugarcane.
7	Standardization of Cropping System.
8	Commercial goat and poultry rearing.
9	Cattle and Goat breed improvement and nutrition management.
10	Storage of Green Fodder for year round fodder availability for livestock.
11	Disease management in livestock and poultry
12	Fruit and Vegetable cultivation should be encouraged
13	Flower cultivation should be encouraged
14	Off season vegetable cultivation should be encouraged

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
12	84	17	357

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2400	201	15578

Seed Production (Qtl.)	Planting material (Nos.)
395	30010

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension on activities	Supply of seeds, planting materials etc.
1.	Weed control	Finger millet	Poor yield due to severe weed infestation	Assessment of chemical weed control in finger millet	-	Chemical Weed control in finger millet crops	Chemical Weed control in kharif crops	Training, method demonstration	Chemical herbicide
2.	Weed control	Linseed	Poor yield due to severe weed infestation	Assessment of chemical weed control in linseed	-	Chemical Weed control in Linseed	Chemical Weed control in rabi crops	Training, method demonstration	Chemical herbicide
3.	Integrated crop management	Sesamum	Poor crop management practices gives poor yield	-	Demonstration of Integrated Crop Management in sesamum	Integrated crop management In sesamum	Integrated crop management In kharif crops	Training, Method demonstration of seed treatment	Seed and biofertilizers
4.	Integrated crop management	Mustard	Poor crop management practices gives poor yield	-	Demonstration of Integrated Crop Management in mustard	Integrated crop management In mustard	Integrated crop management In rabi crops	Training, Method demonstration of seed treatment,	Seed and biofertilizers
5.	Awareness about Burning of paddy straw after harvesting of rice crop, malnutrition problem	Mushroom	Low Economic status and Deficient of knowledge about effect of temperature and humidity on yield.	Assessment of production of Pink oyster mushroom in different range of temperature and humidity.		Mushroom production technique	Mushroom production technique	Training, Pamphlets	Mushroom spawn

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension on activities	Supply of seeds, planting materials etc.
6.	Use of indigenous techniques for management of insect pests.	Rice	High use of Chemical pesticides for management of Insect pests of Rice crop.		Demonstration of management of Yellow Stem Borer in Rice by use of Karada (<i>Cleistanthus collinus</i>) leaves	ITK/Natural farming	ITK/Natural farming	Training, Pamphlets	-
7.	Awareness about new variety of mushroom	Mushroom	Low Economic status and Deficient of knowledge about effect of mushroom on malnutrition	-	Demonstration of Pink Oyster Mushroom.	Mushroom production technique.	--	Training, Pamphlets	Mushroom spawn
8.	Awareness for Importance and use of Tractor drawn seed cum fertilizer drill for sowing of linseed	linseed	Lack of knowledge of seed cum fertilizer drill	-	Demonstration of Tractor drawn seed cum fertilizer drill for sowing of linseed	Importance and use of tractor drawn seed cum fertilizer drill	-	Training and demonstration	-
9.	Awareness for Importance and use of Tractor drawn seed cum fertilizer drill for sowing of Finger Millets among the tribal farmers	Finger Millets	Lack of knowledge of seed cum fertilizer drill	Assessment Tractor drawn seed cum fertilizer drill for sowing of Finger Millets	-	Importance and use of tractor drawn seed cum fertilizer drill	-	Training and demonstration	-
10.	Awareness for Importance and use of	Safflower	Lack of knowledge of seed cum fertilizer drill	-	Demonstration of Tractor drawn seed	Importance and use of tractor drawn seed cum fertilizer	-	Training and demonstration	-

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension on activities	Supply of seeds, planting materials etc.
	Tractor drawn seed cum fertilizer drill for sowing of Safflower				cum fertilizer drill for sowing of Safflower	drill			
11.	Awareness for Importance and use of of Hanging type grain cleaner	Rice	Improper cleaning of grains by using sieve, and in traditional method for cleaning of large quantity of grains by supra it involves drudgery & time	Assessment of Cleaning of grains by hanging type grain cleaner for grains	-	Hanging type grain cleaner	-	Training and demonstration	-
12.	Disease management in Calves	Calves	Due to inclement weather condition calf morbidity and mortality due to pneumonia, diarrhoea and low body weight	Assessment of health management practices for reducing calf morbidity and mortality		Disease management practices to reduce mortality in calves	Disease management practices to reduce mortality in calves	Training and demonstration	Antibiotics and dewormer
13.	Health management to increase milk production	Milch cow	Low milk production and rough body coat recorded in cattle		Demonstration of use of neem leaves (<i>Azadirachta indica</i>) and jaggery for treatment of intestinal worm infestation in cattle	Importance of indigenous technical knowledge in health management of cattle	Importance of indigenous technical knowledge in health management of cattle	Training and demonstration	Jaggery
14.	Feeding management to increase productivity in goat	Goat kid	Low body weight gain due to imbalance feeding of goat kid.	Assessment of feeding green <i>Moringa oleifera</i> fodder in non-descript goat kid (4-5)		Benefits of feeding <i>Moringa oleifera</i> fodder in animals	Benefits of feeding <i>Moringa oleifera</i> fodder in animals	Training and demonstration	<i>Moringa oleifera</i> fodder

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension on activities	Supply of seeds, planting materials etc.
				month) performance					
15.	Awareness for flower cultivation	Marigold	Low yield, small flower size, no use of PGR	Assessment of technology of spray of GA-3 on growth and flowering of marigold	-	Training on flower cultivation	Training of different horticultural crop and its value addition	Training	Seed, GA-3
16.	Awareness for use of sugar factory residue in crop	Brinjal	Sugar factory residue available abundant and there is no use of press mud i. e. very high nutritional value	Assessment of effect of press mud application in Brinjal crop.	-	Training of press mud use in fruit and vegetable crops	Training of different horticultural crop and its value addition	Training	Seed , press mud
17.	Awareness for multi-nutrition crop used whole part of plant	moringa	Cropping of moringa is not done as this is very nutritious crop	-	Demonstration of moringa variety PKM-1	Training on moringa cultivation and its value addition	Training of different horticultural crop and its value addition	Training	Moringa plant
18.	Awareness for integrated nutrient management	Finger millets	Low yield, no use of INM		INM in finger millets	Use of bio-fertilizers with chemical fertilizers	Training and method demonstrations	Training	Seed , bio-fertilizers and chemical fertilizers
19.	Awareness for integrated nutrient management	Rice & Mustard	High cost of cultivation and soil quality damage	Assessment of natural farming on mustard	-	Use of ghanjeevamrit, beejamrit, jeevamrit and biopesticide	Training and method demonstrations	Training	Plastic drum and seed
20.	Soil borne complex wilt disease management of chickpea	Chickpea	Lacking of knowledge regarding soil borne diseases	Assessment of the effectiveness of <i>Trichoderma harzianum</i> for management the complex wilt of chickpea	-	How to soil incorporation of <i>Trichoderma harzianum</i>	Training and method demonstration	Training	<i>Trichoderma harzianum</i> vermin based culture
21.	Rotation	Chilli	Low	-	Demonstration	Identification	Training	Training	Neem oil

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension on activities	Supply of seeds, planting materials etc.
	spray of insecticide with Neem oil		production due to chilli leaf curl virus		on of Rotation spray of insecticide with Neem oil to control of chilli leaf curl disease vector whitefly (<i>Bemisia tabaci</i>)	of vector chilli leaf curl disease	and field visit		
22.	Plant disease management	Rice	High infection of sheath blight disease	-	Demonstration of chemical management of sheath blight disease of Rice	Awareness programme on sheath blight disease	Training and field visit	Training	Azoxystrobin 23% SC

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Farm mechanization	2	2		-	-	-	-	-	-	4
Plant disease control	1	-	1	1	-	-	-	-	-	3
Mushroom				2						1
Horticultural Crop					2		1			3
Natural farming	2	1								3
Weed control	1	1								2
ICM		2								2
TOTAL	6	6	1	3	2	0	1	0	0	18

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Livestock Production Management	2	-	-	1	-	-	-	3
TOTAL	2			1				3

Details of On Farm Trial (OFT)

OFT-1

Name of Discipline	Agronomy
Title of on farm trial	Assessment of chemical weed control in finger millet
Problem diagnosed	Poor yield due to severe weed infestation
Farming situation	Rainfed, upland
Production system and thematic area	Weed management
Farmers' Practices	T1-Do not use chemical herbicide
Details of technologies selectedfor assessment	T2- Atrazine 500 g/ha PE fb metsulfuron methyl + chlorimuron ethyl 4 g/ha as PoE (15-18 DAS)
Source of technology	ICAR-DWR, Jabalpur, 2015
Plot size	0.2 ha
No. of farmers	7
Total cost	Rs. 3500/-
Critical input	Herbicide
Performance indicators:	Weed control efficiency, weed flora, Yield and economics

OFT -2

Name of Discipline	Agronomy
Title of on farm trial	Assessment of chemical weed control in linseed
Problem diagnosed	Poor yield due to severe weed infestation
Farming situation	Irrigated, Midland
Production system and thematic area	Weed management
Farmers' Practices	Do not use chemical herbicide
Details of technologies selectedfor assessment	Pendimethalin 1.0 kg/ha PE fb metsulfuron methyl @ 4g/ha as PoE(15-18 DAS)
Source of technology	ICAR-DWR, Jabalpur, 2015
Plot size	0.2 ha
No. of farmers	7
Total cost	Rs. 5250/-
Critical input	Herbicide
Performance indicators:	Weed control efficiency, weed flora, Yield and economics

OFT -3

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of improved package of practices of natural farming on Rice in upland situation
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Use of imbalance nutrient & High cost of cultivation
Thematic area:	Natural farming
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcast of paddy with imbalance nutrient management
T2 –Recommended Practice-	Seed treatment with Beejamrit, Ghanjeevamrit at sowing time (250 kg/ha+ 250 kg FYM), Spraying of jeevamrit after rain @ 15, 30, 45, 60 DAS (5-20 %) respectively , Mulches of crop residues & Bio-pesticides

T3- Recommended Practice-	-
Date of sowing:	20-06-2024
Date of harvesting:	30-10-2024
Source of technology:	Gurukul Institute , Kurukshetra (Haryana) , 2018
Characteristics of technology:	Improve soil quality ,Quality produce, Soil microorganism increase and low cost of cultivation
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT -4

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of improved package of practices of natural farming on mustard
Year/Season:	Rabi- 2024-25
Farming situation:	Limited irrigation
Problem diagnosis:	Use of imbalance nutrient & High cost of cultivation
Thematic area:	Natural farming
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance nutrient management
T2 –Recommended Practice-	Seed treatment with Beejamrit, Ghanjeevamrit at sowing time (250 kg/ha+ 250 kg FYM), Jeevamrit at irrigation time & Spraying of jeevamrit @ 20,40,60,80 DAS (5-20 %), Mulches of crop residues & Organic pesticides
T3- Recommended Practice-	-
Date of sowing:	15-11-2024
Date of harvesting:	15-03-2025
Source of technology:	Gurukul Institute , Kurukshetra (Haryana) 2018
Characteristics of technology:	Improve soil quality ,Quality produce, Soil microorganism increase and low cost of cultivation
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT -5

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of production of Pink oyster mushroom (<i>Pleurotus eous</i>) in different range of temperature and humidity.
Year/Season:	Year round 2024
Farming situation:	Rainfed
Problem diagnosis:	Low Economic status and Deficient of knowledge about effect of temperature and humidity on yield.
Thematic area:	Mushroom Production and Income generation.
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cultivation only in winter season
T2 –Recommended Practice-	1. Cultivation of Mushroom indifferent range of temperature and humidity.
Date of sowing:	Rainy & Winter season
Date of harvesting:	Rainy & Winter season respectively.
Source of technology:	IGKV, Raipur, 2017.
Characteristics of technology:	To improve economic status, fight for malnutrition, use of unused Paddy straw.
Name of Crop/Enterprises:	Mushroom
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT -6

Name of Discipline	Agril. Engineering
Title of on-farm trial:	Assessment of tractor drawn inclined plate planter for sowing of safflower
Year/Season:	2024-25 Rabi
Farming situation:	Irrigated, upland
Problem diagnosis:	
Thematic area:	Farm mechanization
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcast sowing
T2 –Recommended Practice-	Line sowing with tractor operated inclined plate planter
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur, 2017

Characteristics of technology:	Tractor operated inclined plate planter
Name of Crop/Enterprises:	Safflower
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT -7

Name of Discipline	Agril. Engineering
Title of on-farm trial:	Assessment of Cleaning of grains by hanging type grain cleaner for grains
Year/Season:	Round the year
Farming situation:	-
Problem diagnosis:	Improper cleaning of grains by using sieve, and in traditional method for cleaning of large quantity of grains by supa it involves drudgery & time
Thematic area:	PHT
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cleaning of grains by using sieve and supa
T2 –Recommended Practice-	Cleaning of grains by hanging type grain cleaner
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CIAE, Bhopal, 2016
Characteristics of technology:	Hanging type grain cleaner
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT -8

Name of Discipline	Horticulture
Crop/Enterprise	Marigold
Title of on-farm trial	Assessment of Technology of GA-3 on growth and flowering of Marigold
Problem diagnosed	Small size of flower noted in district
Farming situation	Rainfed
Production system and thematic area	ICM
Farmers' practices (T1)	No use of PGR
Details of technologies selected for assessment (T2)	@ 400 PPM GA-3 application @15 & 30 DAT

Source of technology	IGKV, Raipur 2019
No. of farmers	7
Area of each trial	0.2 acre
No of trial	7
Critical input	Marigold Seed & GA-3
Performance indicators Observation to be recorded	Yield, B: C Ratio, Flower Size
Cost of input	1000 Rs./ Trial
Total cost	7000 Rs.

OFT -9

Name of Discipline	Horticulture
Crop/Enterprise	Brinjal
Title of on-farm trial	Assessment of effect of press mud application in Brinjal crop
Problem diagnosed	Much press mud available unused in sugar factory at Balod
Farming situation	Irrigated
Production system and thematic area	INM
Farmers' practices (T1)	No use of Press mud
Details of technologies selected for assessment (T2)	@ 10 qt./acre
Source of technology	Gurukul Kangadi University, 2016
No. of farmers	7
Area of each trial	0.2 acre
No of trial	7
Critical input	Brinjal seed and Press mud
Performance indicators Observation to be recorded	Yield, B: C Ratio ,soil organic carbon
Cost of input	500
Total cost	3500

OFT -10

Name of Discipline	Animal Science
Crop/Enterprise	Calf
Title of on-farm trial	Assessment of health management practices for reducing calf morbidity and mortality
Problem diagnosed	Due to inclement weather condition calf morbidity and mortality due to pneumonia, diarrhoea and low body weight noted in Balod distt.
Farming situation	-
Production system and thematic area	Animal Health Management
Farmers' practices (T1)	Colostrum feeding in less amount after birth upto 3 days
Details of technologies selected for	Colostrum feeding according to requirement for 3 days + after 5-7 days

assessment (T2)	antibiotic (enrofloxacin) @ 3 mg/ kg body weight for 3 days + deworming Fenbol (fenbendazole)@ 7.5mg/kg body weight (1st dose at 21 day and second dose 42 days)
Technologies selected for assessment (T3)	Colostrum feeding according to requirement for 3 days + after 5-7 days antibiotic (ceftriaxone) @ 10 mg/ kg body weight for 3 days + deworming Fenbol (fenbendazole)@ 7.5mg/kg body weight (1st dose at 21 day and second dose 42 days)
Source of technology	Lala Lajpat Rai University of Veterinary & Animal Sciences Hisar 2018 ICAR-National Dairy Research Institute, ERS, Kalyani, West Bengal, 2020
No. of farmers	7
Area/no. of each trial	2 no of animal/ farmer
No of trial	7
Critical input	Injection enrofloxacin, Injection ceftriaxone, Tab Fenbol
Performance indicators Observation to be recorded	Mortality rate, Morbidity rate, Body weight, Economics : B: C ratio
Cost of input	105 Rs./animal
Total cost	Rs. 1470/-
SMS responsible for OFT	Dr. Neetu Sonkar

OFT -11

Name of Discipline	Animal Science
Crop/Enterprise	Goat
Title of on-farm trial	Assessment of feeding green <i>Moringa oleifera</i> fodder in non descript goat kid (4 -5 month) performance
Problem diagnosed	Low body weight gain due to imbalance feeding of goat kid.
Farming situation	-
Production system and thematic area	Livestock Production Management
Farmers' practices (T1)	Grazing without any concentrate feeds and green fodder
Details of technologies selected for assessment (T2)	Grazing with supplementation of <i>Moringa oleifera</i> fodder at 1% of body weight on DM basis
Source of technology	Sardar Krushinagar Dantiwada Agricultural University, Sardar Krushinagar, Gujarat, 2017
No. of farmers	7
Area/no. of each trial	2 no of animal/farmer
No of trial	7
Critical input	Moringa fodder
Performance indicators Observation to be recorded	Body weight, Economics : B: C ratio
Cost of input	Rs. 252 / animal
Total cost	Rs. 3528
SMS responsible for OFT	Dr. Neetu Sonkar

OFT-12

Name of Discipline	Plant Protection
Crop/Enterprise	Chickpea
Title of on-farm trial	Assessment of the effectiveness of <i>Trichoderma harzianum</i> for management the complex wilt of chickpea.
Problem diagnosed	Lacking of knowledge regarding soil borne diseases
Farming situation	Irrigated, Midland
Production system and thematic area	Disease management
Farmers' practices (T1)	Sowing of non treated seed
Details of technologies selected for assessment (T2)	Sowing of treated seed with <i>Trichoderma harzianum</i> (10ml/kg of seed) & <i>Rhizobium japonicum</i> (10ml/kg seed) + Soil incorporation of <i>Trichoderma harzianum</i> (inoculated with vermi based <i>Trichoderma harzianum</i> inoculums @ 3 kg mix with 100 kg Vermicompost)
Source of technology	IGKV, Raipur, 2017
No. of farmers	07
Area of each trial	0.20 ha
No of trial	07
Critical input	<i>Trichoderma harzianum</i> (liquid formulation) and <i>Rhizobium japonicum</i> (liquid formulation) and vermi based <i>Trichoderma harzianum</i> inoculums
Performance indicators Observation to be recorded	Disease incidence (%), yield (q/ha)
Cost of input	300 Rs./trial
Total cost	Rs. 2100/-
SMS responsible for OFT	Dr. Bhimeshwari Sahu

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	-
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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	

Front line Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

S. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Finger millet	Integrated nutrient management	Demonstration of Integrated nutrient management in Finger millet	NPK and Bio-fertilizers	Kharif 2024	4.8	12	1.No of ears /plants 2) Plant population/sm 3) yield q./ha 4)B:C Ratio
2	Lathyrus	Nutrient management	Demonstration on improved Utera technique in lathyrus.	Improved variety, Bio-fertilizers, Water soluble NPK ,Systemic insecticide	Rabi 2024-25	4.8	12	1. Plant height 2. Plant root growth observation 3. Root nodule/plant 4. yield, q./ha 5. B:C Ratio
3	Moringa	ICM	Variety: PKM-1, fertilizer dose:44:16:30g NPK / tree on sowing & 44gm N at 75 DAT/tree	Recommended dose of fertilizer	Round the Year, 2024	0.4	12	Pod length & weight, yield, BC Ratio
4	Sesamum	ICM	Improved variety (Jawahar til-12) + line sowing and RDN N ₂ :P ₂ O ₅ :K ₂ O (kg/ha) 30:15:30 + seed treatment with biofertilizers (<i>Azospirillum</i> , PSB)	Improved variety	Kharif 2024	4.8	12	Plant population/m ² , no. of branches/plant, no. of capsule/plant, seed yield (q/ha) and Economics
5	Mustard	ICM	Improved variety (DRMR-150-35) + line sowing and RDF- N ₂ :P ₂ O ₅ :K ₂ O (kg/ha) 100:80:60 + seed treatment with bio-fertilizers (<i>Azospirillum</i> , PSB)	Improved variety	Rabi 2024	4.8	12	Plant population/m ² , no.of branches/plant, no.of siliqua/plant, seed yield (q/ha) and Economics

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	8	March- April, Nov-Dec	400
2	Farmers Training	8	Jun- July, Oct-Nov	400
3	Media coverage	4	Jun- July, Oct-Nov	Mass
4	Training for extension functionaries	4	Jun- July, Oct-Nov	200

Details of FLD on Enterprises
Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Tractor operated seed cum fertilizer drill	Linseed	Rabi 2024-25	12	2.6	Tractor operated seed cum fertilizer drill	Yield, q/ha B:C ratio	-	-
Tractor operated seed cum fertilizer drill	Finger Millets	Kharif, 2024	12	2.6	Tractor operated seed cum fertilizer drill	No. of ears/plant ratio Yield, q/ha, B:C ratio	-	-

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Cattle	Cross breed	12	24 no. of animals	Jaggery	Milk Production, B:C ratio, Morbidity percentage	Milk Production, Morbidity percentage	Milk Production, Morbidity percentage

*Milk production, meat production, egg production, reduction in disease incidence etc.

Plant Protection

Crop	Thematic are	No. of farmers	Technology demonstration	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Chilli	Rotation spray of insecticide with Neem oil	12	Controlling of whitefly (<i>Bemisia tabaci</i>) using rotation spray of insecticide with Neem oil to management of Chilli leaf curl virus disease	Acephate 75 SP @ 1.5 g/ L, Fipronil 5 SC @ 1.0 ml/ L, Imidacloprid 70 WG @ 2 g/15 L, Cyantraniliprole 10.26 OD @ 1.2 ml/ L and Neem oil @ 2.0 ml/ L	Disease severity (%), yield (Q/ha), B:C Ratio	spray of insecticide with Neem oil	using only one or two insecticide to control white fly
Rice	Plant disease management	12	chemical management of sheath blight of Rice	Azoxystrobin 23% SC	Disease severity, Yield, B:C	Azoxystrobin 23% SC (250ml/acre)	Hexaconazole 5% EC and Carbendazim 50 WP
Rice	Plant Protection	13	ITK	Karada leaves	Insect infestation (%), yield and Economics	Application of 75-150 kg/ha. of Karada (<i>Cleistanthus collinus</i>) leaves by broad casting once in rice field at 3 DAT	Spray of Insecticide Profenophos & other

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Sesamum	ICM	Improved Variety of Seed, Line sowing, Seed treatment with Bio-fertilizer, Need based Pesticides	Seed, Bio-fertilizer and Pesticides	2024, Kharif	10	25	Plant population/m ² , no. of branches/plant, no. of capsule/plant, seed yield (q/ha) and Economics
2	Mustard	ICM	Improved Variety of Seed, Line sowing, Seed treatment with Bio-fertilizer, Need based Pesticides	Seed, Bio-fertilizer and Pesticides	2024, Rabi	20	50	Plant population/m ² , no. of branches/plant, no. of siliqua/plant, seed yield (q/ha) and Economics
3	Linseed	ICM	Improved Variety of Seed, Line sowing, Seed treatment with Bio-fertilizer, Need based Pesticides	Seed, Bio--fertilizer and Pesticides	2024, Rabi	20	50	Plant Population, Yield (q/ha)
4	Pigeonpea	ICM	Improved Variety of Seed, Line sowing, Seed treatment with Bio-fertilizer, Need based Pesticides	Seed, Bio-fertilizer and Pesticides	2024, Kharif	10	25	Plant Population, Yield (q/ha)
5	Chickpea	ICM	Improved Variety of Seed, Line sowing, Seed treatment with Bio-fertilizer, Need based Pesticides	Seed, Bio-fertilizer and Pesticides	2024, Rabi	20	50	Plant Population, Yield (q/ha)
6	Green Gram	ICM	Improved Variety of Seed, Line sowing, Seed treatment with Bio-fertilizer, Need based Pesticides	Seed, Bio-fertilizer and Pesticides	2025, Summer	10	25	Plant Population, Yield (q/ha)

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	7	Sept- Oct, Feb-march	350
2	Farmers Training	7	Jun-July, oct-nov	350
3	Media coverage	7	Jun-July, oct-nov	Mass
4	Training for extension functionaries	3	Jun-July, oct-nov	150

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	1	15	2	17	10	3	13	30
Resource Conservation Technologies	1	1	15	2	17	10	3	13	30
Integrated Farming	1	1	15	2	17	10	3	13	30
Water management	1	1	15	2	17	10	3	13	30
Seed production	1	1	15	2	17	10	3	13	30
Integrated Crop Management	1	1	15	2	17	10	3	13	30
Total	6	6	90	12	102	60	18	78	180
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	1	1	15	2	17	10	3	13	30
Protective cultivation (Green Houses, Shade Net etc.)	1	1	15	2	17	10	3	13	30
Total	2	2	30	4	34	20	6	26	60
b) Fruits									
Management of young plants/orchards	1	1	15	2	17	10	3	13	30
Total	1	1	15	2	17	10	3	13	30
c) Ornamental Plants	1	1	15	2	17	10	3	13	30
Total	1	1	15	2	17	10	3	13	30
d) Plantation crops	1	1	15	2	17	10	3	13	30
Total	1	1	15	2	17	10	3	13	30
e) Tuber crops	1	1	15	2	17	10	3	13	30
Total	1	1	15	2	17	10	3	13	30
f) Spices	1	1	15	2	17	10	3	13	30
Production and Management technology	1	1	15	2	17	10	3	13	30
Total	1	1	15	2	17	10	3	13	30
g) Medicinal and Aromatic Plants	1	1	15	2	17	10	3	13	30
Production and management technology	1	1	15	2	17	10	3	13	30
Total	1	1	15	2	17	10	3	13	30
Grand total (Horticulture)	1	1	15	2	17	10	3	13	30
III Soil Health and Fertility Management									
Soil fertility management	2	1	25	5	30	25	5	30	60
Soil and Water Conservation	2	1	25	5	30	25	5	30	60
Integrated Nutrient Management	2	1	25	5	30	25	5	30	60
Production and use of organic inputs	2	1	25	5	30	25	5	30	60
Management of Problematic soils	2	1	25	5	30	25	5	30	60
Micro nutrient deficiency in crops	2	1	25	5	30	25	5	30	60
Nutrient Use Efficiency	2	1	25	5	30	25	5	30	60
Soil and Water Testing	2	1	25	5	30	25	5	30	60
Total	16	8	200	40	240	200	40	240	480
IV Livestock Production and Management									
Dairy Management	2	1	25	5	30	25	5	30	60
Poultry Management	2	1	25	5	30	25	5	30	60
Disease Management	2	1	25	5	30	25	5	30	60
Feed management	2	1	25	5	30	25	5	30	60
Production of quality animal products	2	1	25	5	30	25	5	30	60
Total	10	5	125	25	150	125	25	150	300
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	1	15	05	20	10	05	15	
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-
Designing and development for high	-	-	-	-	-	-	-	-	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
nutrient efficiency diet									
Minimization of nutrient loss in processing	2	1	15	05	20	10	05	15	35
Gender mainstreaming through SHGs									
Value addition	2	1	15	05	20	10	05	15	35
Income generation activities for empowerment of rural Women	2	1	15	05	20	10	05	15	35
Location specific drudgery reduction technologies	2	1	15	05	20	10	05	15	35
Women and child care									
Total	8	4	60	20	80	40	20	60	140
VI Agril. Engineering									
Total	2	1	15	05	20	10	15		35
VII Plant Protection									
Integrated Pest Management	2	1	14	04	18	14	17		35
Integrated Disease Management	2	1	15	04	19	13	16		35
Bio-control of pests and diseases	2	1	16	05	21	09	14		35
Production of bio control agents and bio pesticides	2	1	15	05	20	10	15		35
Total									
VIII Fisheries									
Integrated fish farming	-	-	-	-	-	-	-		-
Total									
IX Production of Inputs at site									
Vermi-compost production	2	1	25	05	35	05	35	2	1
Organic manures production	2	1	20	05	15	10	35	2	1
Total	4	2	45	10	40	15	70	4	2
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-
Leadership development	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
Grand Total	-	-	-	-	-	-	-	-	-
(B) RURAL YOUTH	-	-	-	-	-	-	-	-	-
Mushroom Production	3	3	22	53	75	16		45	120
Bee-keeping									
Seed production	2	4	20	10	30	20		30	60
Planting material production									
Vermi-culture	2	4	20	10	30	20		30	60
Value addition	4	2	15	10	25	20		45	55
Sheep and goat rearing	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-
TOTAL	7	11	60	73	135	56		105	180
(C) Extension Personnel									
Productivity enhancement in field crops	2	4	20	10	30	20		30	60
Integrated Pest Management	2	4	20	20	10	30	20		30
Integrated Nutrient management	2	4	20	20	10	30	20		30

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Protected cultivation technology	2	4	20	10	30	20	10	30	60
Group Dynamics and farmers organization	2	4	20	10	30	20	10	30	60
Capacity building for ICT application	2	4	20	10	30	20	10	30	60
Livestock feed and fodder production	2	4	20	10	30	20	10	30	60
Production and use of organic inputs	2	4	20	10	30	20	10	30	60
Gender mainstreaming through SHGs	2	4	20	10	30	20	10	30	60
Any other (Pl. Specify)	2	4	20	10	30	20	10	30	60
TOTAL									

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	1	15	2	17	10	3	13	30
Resource Conservation Technologies	1	1	15	2	17	10	3	13	30
Cropping Systems	1	1	15	2	17	10	3	13	30
Crop Diversification	1	1	15	2	17	10	3	13	30
Integrated Farming	1	1	15	2	17	10	3	13	30
Water management	1	1	15	2	17	10	3	13	30
Seed production	1	1	15	2	17	10	3	13	30
Nursery management	1	1	15	2	17	10	3	13	30
Integrated Crop Management	1	1	15	2	17	10	3	13	30
Fodder production	1	1	15	2	17	10	3	13	30
Production of organic inputs	1	1	15	2	17	10	3	13	30
Total	11	11	165	20	185	110	33	143	330
II Horticulture									
a) Vegetable Crops									
Nursery raising									
Export potential vegetables	1	1	15	2	17	10	3	13	30
Protective cultivation (Green Houses, Shade Net etc.)	1	1	15	2	17	10	3	13	30
b) Fruits									
Cultivation of Fruit	1	1	15	2	17	10	3	13	30
Management of young plants/orchards	1	1	15	2	17	10	3	13	30
Export potential of ornamental plants	1	1	15	2	17	10	3	13	30
Propagation techniques of Ornamental Plants	1	1	15	2	17	10	3	13	30
d) Plantation crops	1	1	15	2	17	10	3	13	30
e) Tuber crops	1	1	15	2	17	10	3	13	30
f) Spices	1	1	15	2	17	10	3	13	30
g) Medicinal and Aromatic Plants	1	1	15	2	17	10	3	13	30
III Soil Health and Fertility Management	1	1	15	2	17	10	3	13	30
Soil fertility management	2	1	20	5	25	20	5	25	50
Soil and Water Conservation	2	1	20	5	25	20	5	25	50
Integrated Nutrient Management	2	1	20	5	25	20	5	25	50
Production and use of organic inputs	2	1	20	5	25	20	5	25	50
Management of Problematic soils	2	1	20	5	25	20	5	25	50
Micro nutrient deficiency in crops	2	1	20	5	25	20	5	25	50
Nutrient Use Efficiency	2	1	20	5	25	20	5	25	50
Soil and Water Testing	2	1	20	5	25	20	5	25	50
IV Livestock Production and Management									
Dairy Management	5	1	8	3	11	15	4	19	30
Poultry Management	6	1	9	5	14	10	6	16	30
Disease Management	2	1	10	6	16	8	6	14	30
Feed management	2	1	5	2	7	15	8	23	30
Production of quality animal products	1	1	15	3	18	10	2	12	30

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	1	5	2	7	15	8	23	30
Design and development of low/minimum cost diet	2	1	5	2	7	15	8	23	30
Designing and development for high nutrient efficiency diet	2	1	5	2	7	15	8	23	30
Minimization of nutrient loss in processing	1	1	15	2	17	10	3	13	30
Gender mainstreaming through SHGs	1	1	15	2	17	10	3	13	30
Storage loss minimization techniques									
Value addition	1	1	15	2	17	10	3	13	30
Income generation activities for empowerment of rural Women	1	1	15	2	17	10	3	13	30
Location specific drudgery reduction technologies	1	1	15	2	17	10	3	13	30
Rural Crafts	2	1	5	2	7	15	8	23	30
Women and child care	2	1	5	2	7	15	8	23	30
Total									
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management	5	1	22	05	27	11	02	13	40
Integrated Disease Management	5	1	23	06	29	08	03	11	40
Bio-control of pests and diseases	3	1	19	08	27	05	08	13	40
Production of bio control agents and bio pesticides	2	1	17	09	26	08	06	14	40
VIII Fisheries									
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development	2	1	5	2	7	15	8	23	30
Group dynamics	2	1	5	2	7	15	8	23	30
Formation and Management of SHGs	2	1	5	2	7	15	8	23	30
Mobilization of social capital	2	1	5	2	7	15	8	23	30
Entrepreneurial development of farmers/youths	2	1	5	2	7	15	8	23	30
WTO and IPR issues	2	1	5	2	7	15	8	23	30
XI Agro-forestry	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs	1	1	15	2	17	10	3	13	30
Sheep and goat rearing	1	1	15	2	17	10	3	13	30
TOTAL	2	2	30	2	34	20	6	26	60
(C) Extension Personnel	2	2	30	2	34	20	6	26	60
TOTAL	2	2	30	2	34	20	6	26	60

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April	Farmers	Land Preparation & Calibration of Seed drill	1	5	2	7	15	8	23	30
July	Farmers	Sowing technique & Weed management	1	5	2	7	15	8	23	30
Aug	Farmers	Integrated Fertilizer Management	1	5	2	7	15	8	23	30

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Horticulture										
Jan	Farmers/FW	Processing of tomato	1	25	5	30	10	4	14	44
Feb	Farmers/FW	Layout planning for plantation of fruit crops	1	22	8	30	8	1	15	45
March	Farmers/FW	Use of venture in drip method of irrigation	1	32	8	40	11	4	15	55
May	Farmers/FW	Fruits and vegetable nursery raising technique	1	23	7	30	16	8	24	54
june	Farmers/FW	Off season vegetable cultivation	1	25	5	30	10	4	14	44
july	Farmers/FW	Vegetable nursery raising technique in rainy season	1	22	8	30	8	1	15	45
April	Farmers/FW	Training of budding technique of propagation	1	32	8	40	11	4	15	55
Aug	Farmers/FW	Training of Grafting technique of propagation	1	23	7	30	16	8	24	54
Aug	Farmers/FW	Training of air layering technique of propagation	1	25	5	30	10	4	14	44
Sept	Farmers/FW	Introduction of different garden tools used for training and pruning and other horticultural practices	1	22	8	30	8	1	15	45
Oct	Farmers/FW	Plant protection techniques in vegetables	1	32	8	40	11	4	15	55
Oct	Farmers/FW	Plant protection techniques in Fruits	1	23	7	30	16	8	24	54
Nov	Farmers/FW	Use of PGR in Horticulture	1	25	5	30	10	4	14	44
Dec	Farmers/FW	Plant protection techniques in nursery raising	1	22	8	30	8	1	15	45
Livestock production										
January	Farmers/FW	Vaccination schedule of livestock	1	5	8	13	13	4	17	30
February	Farmers/FW	Disease management in Livestock	1	7	12	19	7	4	11	30
March	Farmers/FW	Conservation of Green Fodder	1	2	10	12	15	3	18	30
April	Farmers/FW	Poultry production	1	10	6	16	10	4	14	30
May	Farmers/FW	Goat Farming	1	9	8	17	10	3	13	30
June	Farmers/FW	Dairy Farming	1	10	10	20	6	4	10	30
July	Farmers	Poultry Farming	3	8	3	11	15	14	29	40
August	Farmers	Goat Farming	3	7	5	12	18	12	30	40
September	Farmers	Care and Management of livestock	3	11	4	15	13	12	25	40
October	Farmers	Disease management	3	10	8	18	11	11	22	40

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		in Poultry and milch animals								
November	Farmers	Feed and Fodder for Livestock	3	8	3	11	15	14	29	40
December	Farmers/FW	Marketing of Livestock and poultry products	1	8	6	14	10	6	16	30
Home Science										
Plant Protection										
July, November	Farmers/FW	Integrated Pest Management	1	18	8	26	12	9	19	45
August, December	Farmers/FW	Integrated Disease Management	1	12	8	20	11	3	14	34
September, January	Farmers/FW	Bio-control of pests and diseases	1	15	6	21	13	6	19	40
May, November, February	Farmers/FW	Production of bio control agents and bio pesticides	1	18	5	23	14	5	19	42
March, October	Farmers/FW	Mushroom production	3	11	15	26	08	9	12	38
April, June	Farmers/FW	Mushroom production	1	10	21	31	8	6	14	45
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
January	Farmers/FW	Soil fertility management	1	5	8	13	13	4	17	30
February	Farmers/FW	Soil and Water Conservation	1	7	12	19	7	4	11	30
March	Farmers/FW	Integrated Nutrient Management	1	2	10	12	15	3	18	30
April	Farmers/FW	Production and use of organic inputs	1	10	6	16	10	4	14	30
May	Farmers/FW	Management of Problematic soils	1	9	8	17	10	3	13	30
June	Farmers/FW	Micro nutrient deficiency in crops	1	10	10	20	6	4	10	30
July	Farmers/FW	Nutrient Use Efficiency	1	9	9	18	6	6	12	30
August	Farmers/FW	Soil and Water Testing	1	8	9	18	6	6	12	30
September	Farmers/FW	Soil fertility management	1	5	9	18	6	6	12	30
October	Farmers/FW	Soil and Water Conservation	1	7	6	13	11	6	17	30
November	Farmers/FW	Integrated Nutrient Management	1	13	9	22	5	3	8	30
December	Farmers/FW	Production and use of organic inputs	1	8	6	14	10	6	16	30

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
January	Farmers	Weed Management	1	2	17	10	3	13	30	
February	Farmers	Resource Conservation Technologies	1	2	17	10	3	13	30	
March	Farmers	Cropping Systems	1	2	17	10	3	13	30	
April	Farmers	Crop Diversification	1	2	17	10	3	13	30	
May	Farmers	Integrated Farming	1	2	17	10	3	13	30	
June	Farmers	Water management	1	2	17	10	3	13	30	
July	Farmers	Seed production	1	2	17	10	3	13	30	
August	Farmers	Nursery management	1	2	17	10	3	13	30	
September	Farmers	Integrated Crop Management	1	2	17	10	3	13	30	
October	Farmers	Fodder production	1	2	17	10	3	13	30	
November	Farmers	Production of organic inputs	1	2	17	10	3	13	30	
Dec	Women self help group	Mushroom production	3	0	40	40	-	20	40	60
Horticulture										
Jan	Farmers/FW	Processing of tomato	1	25	5	30	10	4	14	44
Feb	Farmers/FW	Layout planning for plantation of fruit crops	1	22	8	30	8	1	15	45
March	Farmers/FW	Use of vantury in drip method of irrigation	1	32	8	40	11	4	15	55
May	Farmers/FW	Fruits and vegetable nursery raising technique	1	23	7	30	16	8	24	54
june	Farmers/FW	Off season vegetable cultivation	1	25	5	30	10	4	14	44
july	Farmers/FW	Vegetable nursery raising technique in rainy season	1	22	8	30	8	1	15	45
April	Farmers/FW	Training of budding technique of propagation	1	32	8	40	11	4	15	55
Aug	Farmers/FW	Training of Grafting technique of propagation	1	23	7	30	16	8	24	54
Aug	Farmers/FW	Training of air layering technique of propagation	1	25	5	30	10	4	14	44
Sept	Farmers/FW	Introduction of different garden tools used for training and pruning and other horticultural	1	22	8	30	8	1	15	45

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		practices								
Oct	Farmers/FW	Plant protection techniques in vegetables	1	32	8	40	11	4	15	55
Oct	Farmers/FW	Plant protection techniques in Fruits	1	23	7	30	16	8	24	54
Nov	Farmers/FW	Use of PGR in Horticulture	1	25	5	30	10	4	14	44
Dec	Farmers/FW	Plant protection techniques in nursery raising	1	22	8	30	8	1	15	45
Livestock production										
January	Farmers/FW	Vaccination schedule of livestock	1	5	8	13	13	4	17	30
February	Farmers/FW	Disease management in Livestock	1	7	12	19	7	4	11	30
March	Farmers/FW	Conservation of Green Fodder	1	2	10	12	15	3	18	30
April	Farmers/FW	Poultry production	1	10	6	16	10	4	14	30
May	Farmers/FW	Goat Farming	1	9	8	17	10	3	13	30
June	Farmers/FW	Dairy Farming	1	10	10	20	6	4	10	30
July	Farmers/FW	Computation of Feed and Fodder	1	11	2	13	12	5	17	30
August	Farmers/FW	Commercial Goat and Poultry farming	1	13	3	16	8	6	14	30
September	Farmers/FW	Round the year Fodder Production	1	8	2	10	10	10	20	30
October	Farmers/FW	Cattle and poultry breed improvement	1	7	6	13	11	6	17	30
November	Farmers/FW	Care and management of livestock	1	13	9	22	5	3	8	30
December	Farmers/FW	Marketing of Livestock and poultry products	1	8	6	14	10	6	16	30
Home Science										
Plant Protection										
July, August, September, November, December	Farmers/FW	Integrated Pest Management/ Mushroom Production tech.	5	1	22	05	27	11	02	13
July, August, September, November, December	Farmers/FW	Integrated Disease Management	5	1	23	06	29	08	03	11

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
June, October, January, April, May,	Farmers/FW	Bio-control of pests and diseases/ Trichoderma production Technique	3	1	19	08	27	05	08	13
February, March	Farmers/FW	Production of bio control agents and bio pesticides	2	1	17	09	26	08	06	14
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

Training Programme for Extension Functionaries:

Science										
Plant Protection	RAEO	IPDM	1	19	08	28	07	05	12	40
June, November										
Agriculture Extension (Capacity Building and Group Dynamics)										
	-	-	-	-	-	-	-	-	-	-
Soil Science										
May	Extension Functionaries	Natural farming	2	13	9	22	5	3	8	30
June	Extension Functionaries	Importance of soil testing and soil health card	2	8	6	14	10	6	16	30
July	Extension Functionaries	Nutrient Management in Kharif field crops	2	7	6	13	10	17	20	30
July	Extension Functionaries	Nutrient Management in Rabi field crops	2	7	6	13	10	17	20	30

iii) **Sponsored Training Programmes**

m) Sponsored Training Programmes													
S. No.	Title	Themati c area	Duration n	Client PF/ RY/ EF	No. of courses	No. of participants							Spo nsor ing agen cy
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Mush room produ ction and prese rvatio n techn ology	Mushroo m Producti on	3days	PF	3	5	6	15	39	26	39	65	SCSP, ACRIP Mushr oom, IGKV, Raipur
2	Two days traini ng on NTF P	NTFP	2 days	PF	2	25	22	4	3	29	25	54	NTFP, IGKV, Raipur

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	06	200	100	300	10	5	15	210	105	315
Kisan Mela	02	1500	500	2000	30	15	45	1530	515	2045
Kisan Ghosthi	03	150	100	250	10	6	16	160	106	266
Exhibition	05	3000	2000	5000	40	20	60	3040	2020	5060
Film Show	06	200	150	350	10	10	20	210	160	360
Method Demonstrations	10	150	50	200	10	10	20	160	60	220
Farmers Seminar	02	250	150	400	10	10	20	260	160	420
Workshop	02	200	150	350	10	10	20	210	160	360
Group meetings	06	150	100	250	10	6	16	160	106	266

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Lectures delivered as resource persons	12	350	250	600	12	12	24	362	262	624
Newspaper coverage	20	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Radio talks	04	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
TV talks	02	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Popular articles	06	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Extension Literature	08	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Advisory Services	25	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Scientific visit to farmers field	25	45	20	65	25	12	37	70	32	102
Farmers visit to KVK	12	1500	500	2000	30	15	45	1530	515	2045
Diagnostic visits	12	45	20	65	25	12	37	70	32	102
Exposure visits	02	60	30	90	2	2	4	62	32	94
Ex-trainees Sammelan	06	300	200	500	6	6	12	306	206	512
Soil health Camp	02	100	500	150	4	2	6	104	52	156
Animal Health Camp	02	200	100	300	6	3	9	206	103	309
Agri mobile clinic	00	0	0	0	0	0	0	0	0	0
Soil test campaigns	02	200	100	300	6	3	9	206	103	309
Farm Science Club Conveners meet	01	200	100	300	6	3	9	206	103	309
Self Help Group Conveners meetings	01	200	100	300	6	3	9	206	103	309
Mahila Mandals Conveners meetings	01	200	100	300	6	3	9	206	103	309
Celebration of important days (specify)	6	150	100	250	10	6	16	160	106	266
Others (pl. specify)	10	500	300	800	10	10	20	510	310	820
Total	1	3700	5570	15120	284	179	478	10144	5454	15578

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	Vikram TCR	250
OILSEEDS	Sesamum	TKG-308	5
	Safflower	IGKV kusum-1	100
	Wheat	Kanishka	40
OTHERS (Specify)	Maize (Fodder)	African Tall	03

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Red son	10000
SPICES	turmeric	Roma	10
VEGETABLES	Drum stick	PKM-1	5000
	Drum stick	ODC	5000
		PKM--2	5000
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	Gladioly		5000
PLANTATION CROPS	-	-	-
Others (specify)	-	-	-

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS	Mushroom Production	-	-	200 kg
BIOFERTILIZERS	NADEP	Compost	5	50000
BIO PESTICIDES	Dasparni ark	-	2	100 L
	Bio Pesticides	-	2	100 L

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-	-	-	-
SHEEP AND GOAT	-	-	-	-
POULTRY	-	-	-	-
FISHERIES	-	-	-	-

Literature to be Developed/Published
KVK News Letter

Date of start	Periodicity	Number of copies to be published
1 st January 2024	January to March 2024	500
1 st April 2024	April to June 2024	500
1 st July 2024	July to September 2024	500
1 st October 2024	October to December 2024	500

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD	Vermicompost Production	100
2	CD	Mushroom cultivation	100

Success stories/Case studies identified for development as a case: 5 no.**Indicate the specific training need analysis tools/methodology followed for (Viz PRA, AES, line dept, ex trainees, interface)**

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	10
2	Rural Youth	4
3	In-service personnel	4
4	Methodology for identifying OFTs/FLDs	5
5	Matrix ranking	1

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Iraguda	Gunderdehi	11
2	Paury	Gunderdehi	07
3	Kajrabandha	Gunderdehi	25
4	khapri	Gunderdehi	27
5	Charachar	Gunderdehi	24
6	Aroud	Balod	02
7	Kamkapar	Dondilohara	55
8	Siwani	Dondilohara	37
9	Piperchhedi	Balod	16
10	Orma and Bhothli	Balod	7-8
11	Newarikala	Balod	08
12	Bodaki	Balod	15
13	Latabod	Balod	03
14	Kaparmeta	Gurur	28

1. No. of farm families selected per village :

2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: Nil

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Nil		

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	Nil			
Water Samples	Nil			
Total	Nil			

LINKAGES**Functional linkage with different organizations**

Name of organization	Nature of linkage
Sarvodaya FPO, Sanoud	Support , decision making, training and marketing support
SFAC	Support , decision making, training and marketing support
NHM	Technical and Financial support
Deptt. Of Horticulture	Technical assistance
Deptt. Of Agriculture	Technical assistance
Deptt. Of Veterinary	Technical assistance
NHB	Technical support
District administration	Facilitate by MNERGA Scheme for farm development

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
ATMA / NFSM	Krishak Pathshala, farm School, Skill Development of farmers, Demonstration, training

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Small nursery project handled	Funding Support
Mushroom production unit	Funding Support
Mushroom Spawn production unit	Funding Support

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Natural farming	Method Demonstrations, Awareness program	5000 farmers

Planning for Crop Cafeteria**Total Area of Crop cafeteria: 500 Sq m**

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	VICRAM TCR	Mutant variety from safari -17 Duration- 120-125 day Production-60-65 Q/ha Drought resistant.	5 x 5
		C.G. Zink rise	Duration – 130-135 days Production- 40-45Q/ha Small grain size	5 x 5
		KH2021-R-2223979-1-	Production – 40-50 Q/h	5 x 5
		KH-22-R2021-685-205-1-	Production – 40-50 Q/h	5 x 5
		KH-2021-Swarna Super RR-5346	Duration – 140-150 days Production- 50-55 Q/ha Resistance to submerged condition	5 x 5
		Indira Arobic	Duration-105-120 day Production – 40-45 Q/ha Resistenle to navic blast	5 x 5
		C.G. Trambe dubraj	Mutant varity from jwafull -17 Duration- 130-135 day Production-37-42 Q/ha scented	5 x 5
		KH2021R2223979-1394-1	Production – 40-50 Q/h	5 x 5

wheat	Rabi Rabi	CG-1036	Production – 35-40 Q/h	5 x 5
		CG-1029	Production – 50-55 Q/h	5 x 5
		CG-03	Production- 50-60 Q/h	5 x 5
		CG-1040	Production – 30-32 Q/h	5 x 5
		CG-1044	Production – 30-32 Q/h	5 x 5
		CG-1023	Production – 30-32 Q/h	5 x 5
		RATAN	Production – 30-32 Q/h	5 x 5
		HI-1544	Production – 40-45 Q/h	5 x 5
Ragi		CG– Ragi 1	Duration – 115-120 days Production – 23-25/ha drought and blight resistance	5 x 5
		CG – Ragi 2	Duration – 110-115 days Production – 32-34/ha drought and blight resistance	5 x 5
		CG– Ragi 3	Duration – 115-120 days Production – 20-25/ha drought and blight resistance	5 x 5
		VL – manduwa 376	Duration – 125-130days Production – 23-25 /ha	5 x 5

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Net house	Used for nursery growing of fruit and vegetable	160	Moringa plant production
Fan – pad polyhouse	Used for nursery growing of fruit and vegetable	80	By nodal propagation of bamboo,
Natural Farming	Demonstration of natural farming on safflower	6000	Quality production of safflower improvement of soil quality
Organic farming	Demonstration of natural farming on safflower	6000	Quality production of safflower improvement of soil quality
Fodder production	Fodder production technique	1000	Supply of seed for live stock
Mushroom production unit	Spawn production and mushroom production	80	Spawn and mushroom production

KVK Balrampur

1.1 Name of the Programme Coordinator with phone & mobile No

1.2 Staff Position on (31th Dec.2023)

[illegible]

14	Driver									
15	Supporting staff									
16	Supporting staff									

1.3 Total land with KVK (in ha): 19.46

S. No.	Item	Area (ha)
1	Under Buildings/ roads /bunds	3.00
2	Under Demonstration Units	1.00
3	Under Crops	10.00
4	Orchard/Agro-forestry	03.00
5	Others (specify) fish pond etc	2.46
Total		19.46

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	08-11-2019	-	-			Complete
2	Farmers Hostel	-	-	-	-	-	-	-
3	Staff Quarters (6)	-	-	-	-	-	-	-
4	Demonstration Units (2)							
5	Fencing	ICAR	28-03-2013	-	1234880	-	-	Complete
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	ICAR	2022					Complete
8	Farm godown	ICAR	2016					Complete

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2016		-	-
Tractor (messy ferguson)	2016	671831	2396.0	Running
Tractor (john deer)	2013	508199	1296.2	Running
Motor Cycle	2016	65000	9107.00	Running
Bolero(Jeep)	2018	7836146	168150	Running
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2016	60000	Running
Computer	2021	45000	Running
Computer	2019	45000	Running
Computer	2019	45000	Running
Computer	2016	40000	Running
Computer	2016	40000	Running
Computer	2016	40000	Running
Laptop	2016	55000	Running
Laptop	2019	60000	Running
Tab	2019	30000	Running
Milke and Sound	2015	150000	Running

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	25-06-2024
2	

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	Upland	Rice-Fallow, Pigeonpea-fallow, Maize-fallow, Maize-Mustard, Groundnut-fallow, Niger-fallow
2	Midland	Rice-Fallow, Rice-wheat, Rice-field pea, Rice-Mustard
3	Low land	Rice-Fallow, Rice-Utera (linseed/local field pea)

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	Northern hill zone	Balrampur district is situated at 23.61° N latitude and 83.61° E longitude with elevation 464 m above the mean sea level, comes under Northern hills agro-climatic zone of Chhattisgarh. The Balrampur district covers an area of 6,01,600 hectare, main rivers of Balrampur district are Kanhar, Mahan, Galfulla, Chanan, Sindur, Geur, Gagar etc. Physiographically, the district is a part of Northern Hills and characterized by undulating topography with high hills, dissected plateaus, steep slopes and scarps. The Basaltic terrain is characterized by highly undulating topography with steep hills and plateau tops. Major soil types of study area are Entisols (Dand-gravelly), Inceptisols (Chawar-sandy loam), Alfisols (Gadar Chawar – clay loam) and Vertisols (Bahera – clayey).

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if neededLand Use Pattern

Particulars	Area “000 ha”
Total Geographical area	601.6
Forest	72.8
Waste Land	30.5
Other than cultivated area	1.80 lakh ha
Cultivable waste and alkaline land	-
Pastures	86.40
Bushes	-
Current Fallow	23.7
Other Fallow	23.7
Agricultural Land	177.9
Area Sown	177.9

Kharif	161.39
Rabi	54.820
Zaid	-
Cropping Intensity	131%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	2.40
2	Well	3.10
3	Tube well	3.50
4	Ponds	0.70
5	Others	0.40

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Entiosol (Bhata-gravelly)	-	-
2	Inceptocol (Matasi- Sandyloam)	-	-
3	Alfisol (Dorsa-Clayloam)	-	-
4	Vertisol (Kanhra-Clayey)	-	-

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
1	Rice	169838	210815	1989
2	Maize	5753	7089	1903
3	Wheat	897	978	1897
4	Blackgram	10750	4278	421
5	Pigeon pea	5404	4793	497
6	Gram	645	440	621
7	Niger	21130	4157	319
8	Mustard	4661	1871	402
9	Groundnut	4421	5251	1497
10	Mango	4303	27969.50	6.50
11	Banana	2562	34458.80	13.4
12	Papaya	1370	26058.00	19.02
13	Litchi	1122	6810.54	6.07
14	Potato	4500	47250.00	10.50
15	Tomato	1969	29535.00	15.00
16	Brinjal	1200	19200.00	16.00
17	Cabbage	522	7508.80	14.38
18	Cauliflower	520	8424.00	16.20
19	Bottle gourd	700	7350.00	10.50
20	Chilli	739	9607.00	13.00

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	-		
Feb. 2023	-		
Mar. 2023	-		
Apr. 2023	-		
May. 2023	-		
Jun. 2023	8.40		
July. 2023	6.72		
Aug. 2023	5.98		

Sept. 2023	20.27		
Oct. 2023	-		
Nov. 2023	-		
Dec. 2023	-		

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	457342	46719.869 MT.	Cross breed- 8 liter/animal/day Indigenous - 5 liter/animal/day Non descript - 2 liter/animal/day
Buffalo	55687		
Sheep			
Crossbred/ Indigenous	5071	Meat – 1103.62	
Goats	344454		
Pigs Crossbred/ Indigenous	21956		
Rabbits	-		
Poultry			
Hens	Backyard- 371614	137.127 Lakh eggs	Backyard- 150-180 eggs/ bird/yr
Turkey and others	Duck - 2424		
Category	Area	Production	Productivity
Fish	940.059 (ha)	4240 Q/ month	Rural pond- 20 Q/ ha. Irrigation – 1.20 Q/ ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Balrampur	Balrampur	Jabar, Nawadih, Magarhara, Nehrunagar, Doura, Kochli, Kerikachar, Kharsota	Paddy, Maize, Pigeonpea, Groundnut, Dairy, Goatry	Weeds, stem borer, gall midge, fall armywarm,	Lack of Landscaping and fruit plantation
2	Kusmi	Kusmi	Kutku, Jamirapath, Dumarkholi, Gopatu, Navadih Khurd, Datram, Bakasapur, Shahpur Magaji	Paddy, maize, kharif potato, little millet and finger millet, Goatry, piggery	Weeds, stem borer, gall midge fall armywarm, white grub	Mono cropping in upland and low land
3	Shankargarh	Shankargarh	Larangi, Changro, Chirai, Ghughri Kala, Dipadih Kala	Paddy, maize, pigeonpea, groundnut	Weeds, stem borer, gall midge, fall armywarm,	Lack of proper Nutrient management in field and plantation crops
4	Rajpur	Rajpur	Devridand, Parsagudi, Karji	Paddy, maize, pigeonpea, groundnut	Weeds, stem borer, gall midge, fall armywarm,	Weed management in field and plantation crops

Priority / Thrust areas

S. No.	Particulars
1.	Lack of Improved & high yielding varieties for rice, niger, blackgram, wheat, field pea & pigeon pea etc.
2.	Integrated Nutrient Management especially in potential crops i.e. Rice, Wheat, Maize, Mustard, Pigeon pea, potato & field pea for increasing their productivity under acidic soils conditions.
3.	Establishment of Integrated farming system model at marginal & small farmers.

4.	Integrated pest management in cereals, pulse & oilseeds.
5.	Development of fruit and vegetable based land use system.
6.	Value addition for income and employment generation
	Nutritional and livelihood security for tribal's

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
18	82	14	140

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
24	1244	123	1835

Seed Production (Qtl.)	Planting material (Nos.)
168	20500

B. Abstract of interventions to be undertaken

[illegible]

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

[illegible]

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)

OFT -1

Crop / Enterprise	Finger millet
Title of on farm trial	Assessment of Finger millet under Natural farming practices
Problem diagnosed	Low yield and use of chemical fertilizers increases the cost of cultivation
Farmers' Practices	Broadcasting of seeds
Details of technologies selected for assessment	T ₁ Line sowing (22.5cm), Seed treatment with Bijamrit, Soil application of Ghanjivamrit 250 kg/ha and jeevamrit @500 lt/ha at 15 days interval, Neem based/Bhramhastra/leaf extract herbal insecticide as per requirement Rows can be added if necessary
Source of technology	IGKV, Raipur
Plot size	1.6 ha
No. of farmers	04
Total cost	8000
Critical input	Seed, Beejamrit, Jeevamrit, ghanajeevamrit
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic	

(iv) Social – Employment generation	

OFT -2

Crop / Enterprise	Groundnut (Kharif 2023)	
Title of on farm trial	Assessment of weed management in groundnut.	
Problem diagnosed	Low productivity due to heavy infestation of weeds.	
Farmers' Practices	Farmer's practice- Manual weeding at 50-60 DAS	
Details of technologies selected for assessment	T ₁	Application of post emergence herbicide quizalofop-ethyl 50g /ha at 15-20 DAS i.e. 2-3 leaf stage of weeds. T3: Application of post emergence herbicide imazethapyr 100g /ha at 15-20 DAS i.e. 2-3 leaf stage of weeds
Source of technology	DWR, Jabalpur, 2020	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	8000	
Critical input	Quizalofop-ethyl 50g /ha at 15-20 DAS i.e. 2-3 leaf stage of weeds and imazethapyr 100g /ha at 15-20 DAS i.e. 2-3 leaf stage of weeds	
Performance indicators: (v) Growth and Yield attributes (vi) Technical- yield (q/ ha) (vii) Economic (viii) Social – Employment generation		

OFT -3

Crop / Enterprise	Mustard	
Title of on farm trial	Assessment of yield maximization of mustard.	
Problem diagnosed	Poor yield due to conventional practices and late sowing	
Farmers' Practices	Manual weeding at 50-60 DAS	
Details of technologies selected for assessment	T ₁	Timely Sowing in Line + recommended dose of fertilizer (NPK-100:60:40 kg/ha) and application of Quizalofop-p-ethyl 5% EC @ 50 g a.i./ha
Source of technology	RMDCARS, Ambikapur	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	10000	
Critical input	Seed and herbicide	
Performance indicators: (ix) Growth and Yield attributes (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation		

OFT -4

Crop/Enterprise	Wheat
Title of on-farm trial	Assessment of heat tolerance variety of wheat
Problem diagnosed	Poor yield found now a days due to suddenly rise of temperature during grain filling stage
Farmers' Practices	Conventional practices

Details of technologies selected for assessment	T ₁	Varietal assessment of wheat variety Kanshka with RDF 100:60:40 kg N:P:K/ha
Source of technology	IGKV, Raipur	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	8000	
Critical input	Seed	
Performance indicators: (xiii) Growth and Yield attributes (xiv) Technical- yield (q/ ha) (xv) Economic (xvi) Social – Employment generation		

OFT -5

Crop/Enterprise	Bitter gourd	
Title of on-farm trial	Assessment of plant growth substances on the fruit yield of bitter gourd	
Problem diagnosed	Low yield of bitter gourd because deficiency of different growth substances	
Farmers' Practices	T1: No use of plant growth substances	
Details of technologies selected for assessment	T2: Spraying of tricontanole 0.05% @ 2ml/lt at 40 and 65 DAS. T3-: Spraying of NAA @ 5ml/lt at 40 and 65 DAS	
Source of technology	WBSAU	
Plot size	0.5ha	
No. of farmers	05	
Total cost	25000	
Critical input	Seeds, Tricontanole, NAA	
Performance indicators: (xvii) Growth and Yield attributes (xviii) Technical- yield (q/ ha) (xix) Economic (xx) Social – Employment generation		

OFT -6

Crop/Enterprise	Tomato	
Title of on-farm trial	Assessment of bacterial wilt management in tomato.	
Problem diagnosed	Heavy loss of yield due to wilt	
Farmers' Practices	T1: Not practiced	
Details of technologies selected for assessment	T2: Before planting root dipping (for 30 minute) with streptocycline 0.2 gm. + COC 2gm./lit. water and soil drenching streptocycline 0.2 gm. + 2gm. /lit. water (Soil drenching at vegetative and flowering stage.	
Source of technology	IGKV, Raipur	
Plot size	0.5 acre	
No. of farmers	05	
Total cost	Rs.5500/	

Critical input	Seed, Streptocycline, COC
Performance indicators: (xxi) Growth and Yield attributes (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	

OFT -7

Crop/Enterprise	Onion
Title of on-farm trial	Assessment of weed management in onion.
Problem diagnosed	Heavy weed infestation in onion
Farmers' Practices	T1: No use of herbicide/manual weeding
Details of technologies selected for assessment	T2: Chemical weed management with Quizalofop ethyle 5% EC 750 ml /ha + oxyflourfen 23.5% EC 250 ml/ha 15-20 DAT
Source of technology	DOGR
Plot size	0.5 acre
No. of farmers	05
Total cost	Rs.2500
Critical input	Herbicide
Performance indicators: (xxv) Growth and Yield attributes (xxvi) Technical- yield (q/ ha) (xxvii) Economic (xxviii) Social – Employment generation	

OFT -8

Crop/Enterprise	Cauliflower
Title of on-farm trial	Assessment of foliar spray of water soluble fertilizer in Cauliflower.
Problem diagnosed	Low productivity due to low fertilizer use efficiency
Farmers' Practices	T1: Imbalanced fertilizer application
Details of technologies selected for assessment	T2: Nutrient management STV/SHC based + foliar spray of water soluble fertilizer NPK (19:19:19).
Source of technology	IGKV, Raipur
Plot size	0.5 acre
No. of farmers	05
Total cost	Rs.8000/-
Critical input	Seeds, Water soluble fertilizer NPK (19:19:19)
Performance indicators: (xxix) Growth and Yield attributes (xxx) Technical- yield (q/ ha) (xxxi) Economic (xxxii) Social – Employment generation	

OFT -9

Crop/Enterprise	Blackgram
Title of on-farm trial	Assessment of Seed-cum-Fertilizer Drill for Line sowing of Blackgram
Problem diagnosed	There is loss of fertilizer and seeds in broadcasting technique. Improper placement of seed and fertilizers which results poor germination, ununiform plant population and low productivity.
Farmers' Practices	T1: Existing practice/ broadcasting of seeds
Details of technologies selected for assessment	T2: Tractor operated Seed cum fertilizer drill
Source of technology	CIAE, Bhopal
Plot size	0.40 ha
No. of farmers	05
Total cost	7000
Critical input	Tractor operated Seed cum fertilizer drill
Performance indicators: (xxxiii) Growth and Yield attributes (xxxiv) Technical- yield (q/ ha) (xxxv) Economic (xxxvi) Social – Employment generation	

OFT -10

Crop/Enterprise	Wheat
Title of on-farm trial	Assessment of Zero till Seed-cum-Fertilizer Drill for Line Sowing of Wheat
Problem diagnosed	There is loss of fertilizer and seeds in broadcasting technique. Improper placement of seed and fertilizers which results poor germination, ununiform plant population and low productivity.
Farmers' Practices	T1: Existing practice/ broadcasting of seeds
Details of technologies selected for assessment	T2: Tractor operated Seed cum fertilizer drill
Source of technology	GBPUAT
Plot size	0.40 ha
No. of farmers	05
Total cost	7000
Critical input	Tractor operated zero till seed cum fertilizer drill
Performance indicators: (xxxvii) Growth and Yield attributes (xxxviii) Technical- yield (q/ ha) (xxxix) Economic (xl) Social – Employment generation	

OFT -11

Crop/Enterprise	Tomato
Title of on-farm trial	Assessment on impact of Mulches in Vegetables cultivation
Problem diagnosed	Weed infestation, Water losses, Nutrient losses
Farmers' Practices	T1: Not practiced/ without Mulching

Details of technologies selected for assessment	T2: Use of 25 Micron Silver/Black plastic sheet mulch
Source of technology	IGKV, Raipur
Plot size	0.40 ha
No. of farmers	05
Total cost	40000/-
Critical input	Vegetable seeds and 25 micron silver/black plastic sheet
Performance indicators: (xli) Growth and Yield attributes (xlii) Technical- yield (q/ ha) (xliii) Economic (xliv) Social – Employment generation	

OFT -12

Crop/Enterprise	Chickpea
Title of on-farm trial	Assessment of Zero till Seed-cum-Fertilizer Drill for Line sowing of Chickpea
Problem diagnosed	There is loss of fertilizer and seeds in broadcasting technique. Improper placement of seed and fertilizers which results poor germination, ununiform plant population and low productivity.
Farmers' Practices	T1: Existing practice/ broadcasting of seeds
Details of technologies selected for assessment	T2: Tractor operated zero till seed cum fertilizer drill
Source of technology	GBPUAT
Plot size	0.40 ha
No. of farmers	05
Total cost	7000/-
Critical input	Tractor operated zero till seed cum fertilizer drill
Performance indicators: (xlv) Growth and Yield attributes (xlvii) Technical- yield (q/ ha) (xlviii) Economic (xlviii) Social – Employment generation	

OFT -13

Crop/Enterprise	Fish farming
Title of on-farm trial	Assessment of growth performance of locally available low cost feed in Fish culture
Problem diagnosed	Lack awareness of preparation of locally available fish feed and feed ingredients
Farmers' Practices	T1: Use of Rice bran only
Details of technologies selected for assessment	T2: Farm made feed is a formulation of low cost produced from locally available cheap feed ingredients. The feed is prepared from Til oil cake (30%), mustard oil cake (30%), rice bran (39%) and mineral mixture (1%).
Source of technology	CIFA, Bhubaneswar, 2010

Plot size	1 ha
No. of farmers	04
Total cost	Rs. 10,000/-
Critical input	10,000 Fingerling
Performance indicators: (xlix) Growth and Yield attributes (l) Technical- yield (q/ ha) (li) Economic (lii) Social – Employment generation	

OFT -14

Crop/Enterprise	Fish farming
Title of on-farm trial	Assessment of Indian Major carps with Grass Carp to control aquatic vegetations
Problem diagnosed	Ponds infested by aquatic vegetations
Farmers' Practices	T1: No use of biological aquatic vegetations management
Details of technologies selected for assessment	T2: Stocked Grass carp 10% with IMC Catla 30%, Rohu 30% , Mrigala 30% T3: Stocked Common carp 10% with IMC Catla 30%, Rohu 30% , Mrigala 30%
Source of technology	CIFA ,Bhubaneswar
Plot size	1 ha
No. of farmers	04
Total cost	Rs. 10,000
Critical input	10,000 fingerling
Performance indicators: (liii) Growth and Yield attributes (liv) Technical- yield (q/ ha) (lv) Economic (lvi) Social – Employment generation	

OFT -15

Crop/Enterprise	Rice
Title of on-farm trial	Assessment of false smut disease management in rice.
Problem diagnosed	False smut disease caused by <i>Ustilagnoidea virens</i> is a potential threat to rice cultivation causing extensive damage to the crop in almost all the rice growing tracts. Yield losses due to this disease are estimated to be ranging from 15-20 %.
Farmers' Practices	T1: Lack of awareness/ improper management
Details of technologies selected for assessment	T 2: Seed treatment and spraying of copper oxychloride at 2.5 g / litre of water at pre flowering, boot leaf and milky stages. T 3: Folliar application with propiconazole at 1.0 ml / litre of water at pre flowering booting and milky stages.
Source of technology	TNAU, 2012
Plot size	0.2ha

No. of farmers	04
Total cost	2550.00
Critical input	Copper oxychlorid And Propiconazole
Performance indicators: (lvii) Growth and Yield attributes (lviii) Technical- yield (q/ ha) (lix) Economic (lx) Social – Employment generation	

OFT -16

Crop/Enterprise	Potato
Title of on-farm trial	Assessment of white grub (<i>Holotrichia Spp.</i>) management in potato
Problem diagnosed	White grub is polyphagouse and destructive pest of potato in plateau region of Distt.- Balrampur, as a result of its attack tuber damaged 50-60%
Farmers' Practices	T1: Not practiced
Details of technologies selected for assessment	T2: Soil application of Carbofuran 3G @ 10 Kg / ha in furrowing at the time of sowing T3-: Soil application of Metarhizim anisopliae 20g / Kg FYM/ ha in furrowing at the time of sowing
Source of technology	TANU
Plot size	0.2 ha
No. of farmers	04
Total cost	2573.00
Critical input	Chemical and biological Insecticide
Performance indicators: (lxi) Growth and Yield attributes (lxii) Technical- yield (q/ ha) (lxiii) Economic (lxiv) Social – Employment generation	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	
Year/Season:	
Farming situation:	
Problem diagnosis:	
Thematic area:	
No of trials:	
No. of farmers involved	
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	

T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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 Dept. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Rice	Weed management	Demonstration on yield maximization of rice under line sown direct seeded rice.	Post emergence herbicides	Kharif 2024	5.0 ha.	12	No. of weeds/m ² , Weed dry weight(g/m ²), WCE % no. of panicles/plant, Yield (q/ha) and B:C Ratio
2	Rice	Organic Farming	Demonstration of organic farming in scented rice	Dhaincha seed and biofertilizers	Kharif 2024	5.0 ha.	12	Number of effective tillers/hill, grains/panicle, yield and economics
3	Wheat	Weed management	Demonstration on chemical weed management in wheat	Seed and herbicide	Rabi 2024	5.0 ha.	12	No. of weeds/sq.m, weed dry matter (g), weed control efficiency (%), No. of pods/plant, yield (q/ha) and economics
4	Maize	Weed management	Demonstration on weed management in maize	Seed and herbicide	Summer 2024	5.0 ha.	12	No. of weeds/sq. meter, weed control efficiency, yield attributes, yield and economics
5	green leafy vegetables, roots and tubers ,fruits etc	Nutritional security	Demonstration on nutritional garden for nutritional security of farm household's	Improved management practices with improved varieties of green leafy vegetables, roots and tubers ,fruits etc. Planning for round the year vegetable	Rabi 2024	200m ² .	12	consumption gm per day, yield, B:C ratio.
6	Onion	Varietal assessment	Demonstration of improved variety of onion	Seed	Rabi 2024	4.0 ha.	12	weight of bulb/plant, Yield, B:C ratio
7	Bottle gourd	Integrated nutrient management	Foliar application of Ethrel PGR	PGR	Kharif 2024	4.0 ha.	12	No. of fruits/ vine, yield (q/ha.), B:C

		nt	@ 250 ppm at 2 & 4 leaves stages .					Ratio
8	Paddy	Agricultural Enginnerin g	Seed-cum- Fertilizer Drill for line sowing of rice	Tractor operated Seed cum fertilizer drill	Kharif 2024	5 ha.	10	Yield, field capacity, BC ratio
9	Paddy	Agricultural Enginnerin g	Tractor Operated Axial Flow Thresher for paddy threshing	Tractor Operated Axial Flow Thresher for paddy threshing	Kharif 2024	5 ha.	10	Yield, field capacity, BC ratio
10	Mustard	Agricultural Enginnerin g	Seed-cum- Fertilizer Drill for line sowing of mustard crop	Tractor operated Seed cum fertilizer drill	Kharif 2024	5 ha.	10	Yield, field capacity, BC ratio
11	Fish farming	Fry production	Demonstratio n on Fry production in small seasonal village ponds.	Fingerling	Kharif 2024	1ha.	4	Survival percentage, B:C ratio, FCR, Total Biomass, days of culture, average daily growth
12	Fish farming	Fingerling production	Demonstratio n on Fingerling production in village ponds	Fingerling	Kharif 2024	1 ha.	4	Survival percentage, B:C ratio, FCR, Total Biomass, days of culture, average daily growth
13	Maize	Pest Manageme nt	IPM	Pheromone trap, Chlorantriliprole, and Chlorpyriphos+Cypermet hrin	Kharif 2024	5 ha.	12	No. of larvae / plant, No. of damage plant / Sq.m, Yield, C : B Ratio
14	Chickpea	Pest Manageme nt	IPM	Pheromone trap, and Profenophos (40 %) + Cypermethrin (4%)EC	Rabi 2024	5	12	No. of larvae / plant, No. Moth/ trap, Yield, C : B Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	07	October/November	450
2	Farmers Training	18	May/June/October	800
3	Media coverage	15		
4	Training for extension functionaries	04	May/June/October/November	340

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters /	* Data on parameter in relation to technology

						indicators	demonstrated	
							Demon.	Local check

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Linseed		Line Sowing, HYV of seed and IPM	Seeds, Insecticide and pesticide	Rabi 2023	10 ha	25	Yield, Economics
2								

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	01	November/December	50
2	Farmers Training	03	November/December	25
3	Media coverage	04		
4	Training for extension functionaries	02	October/November	50

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	2	2							
Resource Conservation Technologies	2	2							
Integrated Farming	2	2							
Water	2	2							

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Efficiency									
Soil and Water Testing									
Total	12	12							
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	2							
Design and development of low/minimum cost diet	-	-							
Designing and development for high nutrient efficiency diet	-	-							
Minimization of nutrient loss in processing	-	-							
Gender mainstreaming through SHGs	-	-							
Value addition	-	-							
Income generation activities for empowerment of rural Women	-	-							
Location specific drudgery reduction technologies	-	-							
Women and child care	-	-							
Total	2	2							
VI Agril. Engineering									
Total									
VII Plant Protection									
Integrated Pest Management	2	2							
Integrated Disease Management	-	-							
Bio-control of pests and diseases	-	-							

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								Grand Total
			Others				SC/ST				
			Male	Female		Total	Male	Female		Total	
Production of bio control agents and bio pesticides	-	-									
Total	2	2									
VIII Fisheries											
Integrated fish farming	-	-									
Total											
IX Production of Inputs at site											
Vermi-compost production	2	2									
Organic manures production	2	2									
Total	4	4									
X Capacity Building and Group Dynamics											
Leadership development	-	-									
Group dynamics	-	-									
Formation and Management of SHGs	-	-									
Mobilization of social capital	-	-									
Entrepreneurial development of farmers/youths	-	-									
WTO and IPR issues	-	-									
Total											
XI Agro-forestry											
Total											
XII Others (Pl. Specify)											
Grand Total											
(B) RURAL YOUTH											
Mushroom Production	2	2									
Bee-keeping	2	2									
Seed production	2	2									
Planting material production	2	2									
Vermi-culture	2	2									
Value addition											
Sheep and goat rearing											
Para extension workers											
TOTAL	10	10									
(C) Extension Personnel											
Productivity enhancement	2	2									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
in field crops											
Integrated Pest Management	2	2									
Integrated Nutrient management	2	2									
Protected cultivation technology	2	2									
Group Dynamics and farmers organization	2	2									
Capacity building for ICT application	-	-									
Livestock feed and fodder production	-	-									
Production and use of organic inputs	2	2									
Gender mainstreaming through SHGs											
Any other (Pl. Specify)	-	-									
TOTAL	12	12									

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	2	2							
Resource Conservation Technologies	2	2							
Cropping Systems	2	2							
Crop Diversification	-	-							
Integrated Farming	-	-							
Water management	-	-							
Seed production	2	2							
Nursery management	-	-							
Integrated Crop Management	2	2							
Fodder production	-	-							
Production of organic inputs	2	2							
Total	12	12							
II Horticulture									
a) Vegetable Crops									
Nursery raising	2	2							
Export potential vegetables	2	2							

Protective cultivation (Green Houses, Shade Net etc.)	2	2							
b) Fruits									
Cultivation of Fruit	-	-							
Management of young plants/orchards	-	-							
Export potential of ornamental plants	-	-							
Propagation techniques of Ornamental Plants	-	-							
d) Plantation crops									
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management	2	2							
Soil and Water Conservation	2	2							
Integrated Nutrient Management	2	2							
Production and use of organic inputs	2	2							
Management of Problematic soils	2	2							
Micro nutrient deficiency in crops	-	-							
Nutrient Use Efficiency	-	-							
Soil and Water Testing	-	-							
IV Livestock Production and Management									
Dairy Management	-	-							
Poultry Management	-	-							
Disease Management	-	-							
Feed management	-	-							
Production of quality animal products	-	-							
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	-	-							
Design and development of low/minimum cost diet	-	-							
Designing and development for high nutrient efficiency diet	-	-							
Minimization of nutrient loss in processing	-	-							
Gender mainstreaming through SHGs	-	-							

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
	Farmers	Resource Conservation Technologies	2							
		Cropping Systems	2							
Horticulture										
	Farmers	Modern techniques of vegetable production	2							
Livestock production										
Home Science	Farmers	Household food security by kitchen gardening and nutrition gardening	2							
Plant Protection	Farmers	Integrated Disease Management	2							
		Bio-control of pests and diseases	2							
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science	Farmers	Production and use of organic inputs	2							
		Management of Problematic soils	2							
		Micro nutrient deficiency in crops	2							

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Horticulture

Livestock production

Home Science

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Kisan Ghosthi	05			250			10			260
Exhibition	10			250			30			280
Film Show	-	-	-	-	-	-	-	-	-	-
Method Demonstrations	06			150			15			165
Farmers Seminar	-	-	-	-	-	-	-	-	-	-
Workshop	12						240			240
Group meetings	10			150			20			170
Lectures delivered as resource persons	03			300			20			320
Newspaper coverage	-	-	-	-	-	-	-	-	-	-
Radio talks	-	-	-	-	-	-	-	-	-	-
TV talks	-	-	-	-	-	-	-	-	-	-
Popular articles	-	-	-	-	-	-	-	-	-	-
Extension Literature	05			-			-			-
Advisory Services	12			12000			150			12150
Scientific visit to farmers field	60			180			30			210
Farmers visit to KVK										
Diagnostic visits	50			240			15			255
Exposure visits	03			80			12			92
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	-	-	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	-	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	05									
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	20			500			45			545
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total	207			14250			595			14845

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	Indira barani	70.00
	Rice	Indira arobic	35.00
OILSEEDS	Niger	JNS -30	07.00
PULSES	Black gram	Indira urd -1	10.00
Other (Millet)	Ragi	Chhattisgarh ragi 02	30.00
Other (Com.Pro)	Maize	Hybrid	70.00

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango	Amrapali/dashari/malika/langra	500
	Guava	Illabadi safeda/L-49/VNR	2000
	Litchi	Ambika/sahi/rose scented	2000
	Karonda	Beeju	30000
	Papaya	Red leddy	1000
	Drum stick	PKM-01	1000
VEGETABLES	-	-	-
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	Sindoor	Beeju	5000
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost	<i>Eisenia fetida</i>		3000
2	NADEP	-		2000
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Milk	Sahiwal	-	200 lt
GOAT	Meat	Black bangal		300 kg

POULTRY	Meat	Kadaknath	-	500 kg
Poultry (quail)	Meat	Japani bater		50 kg
FISHERIES	Meat	Rohu/katla /mrigal	-	100 kg
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Pachawal	Balrampur	10
2	Nehru Nagar	Ramchandrapur	30
3	Sendur	Balrampur	30
4	Parsagudi	Rajpur	55
5	Jhingo	Rajpur	40
6			
7			
8			

1. No. of farm families selected per village : 10-12
2. No. of survey/PRA to be conducted: 10

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK
(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Jan- Feb	Training	30/3 Village
June-July	Demonstration	20/05 Acre
Every month	Awareness Programmes	400/05 Villages
September-October	Exposure visits	30/500

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	Indira arobie		3x7 Sqm
Paddy	Kharif	Indira barani		3x7 Sqm
Paddy	Kharif	Sahbhagi		3x7 Sqm
Paddy	Kharif	Tarun bhog sel -01		3x7 Sqm
Ragi	Kharif	Finger millet		3x7 Sqm
Wheat	Rabi	C.G -1044		3x7 Sqm
Wheat	Rabi	C.G -1029		3x7 Sqm
Wheat	Rabi	C.G -1040		3x7 Sqm
Wheat	Rabi	C.G -1036		3x7 Sqm
Wheat	Rabi	C.G -1023		3x7 Sqm
Mustard	Rabi	Pusa Bold		3x7 Sqm
Mustard	Rabi	Pusa Bold		3x7 Sqm
Mustard	Rabi	C.G Sarso		3x7 Sqm
Mustard	Rabi	C.G Sarso -02		3x7 Sqm

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Natural Farming	Demonstration on Wheat using Natural Farming	2000	3 qt
Drip irrigation system	low cost gravity operated drip irrigation system for vegetable cultivation	4047	
Polly House and Green Net Shed	Planting Materials production of fruits and vegetable crop	1500	20000 Nos
Poultry Unit	Kadakhath and Quail farming	6000	2000 birds
Dairy Unit	Cow (Sahiwal)	1500	1000 lt milk
Goat unit	Black bangal	1500	20 nos
Quail unit	Japani bater	500	500 birds
Fishery Unit	Rohu/katla/mrigal	2000	02.00 qt
Fruit Mother Orchard	Mango/litchi/guava/	20000	3000 planting material

ANNUAL ACTION PLAN 2024

KVK, Jagdalpur (Bastar)

Year of sanction: 2000-2001 (Establishment date: 01st November 2000)

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Santosh Kumar Nag	07782-229153	079872-42567	kvk.bastar@igkv.ac.in

1.2 Staff Position on (31th Dec.2023)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Santosh Kumar Nag	Senior Scientist & Head	Agricultural Economics	131400 - 217100 (Basic 152300)	26.03.2019	2019	7987242567	Santosh2675@gmail.com	
2	Subject Matter Specialist	Dr. Rahul Sahu	Subject Matter Specialist	Agricultural Processing & Food Engineering	56100-177500 (Basic 300)	06.09.2012	2012	9993909596	rahulquest@cheerful.com	
3	Subject Matter Specialist	Sh. Sushil Kumar Kashyap	Subject Matter Specialist	Horticulture	56100-177500 (Basic 65000)	06.10.2018	2018	7898264483	kashyapflori@gmail.com	
4	Subject Matter Specialist	Sh. Dharmpal Kerketta	Subject Matter Specialist	Entomology	56100-177500 (Basic 65000)	29.10.2012	2018	7024255430	dp.ento@gmail.com	
5	Subject Matter Specialist	Vacant	--							
6	Subject Matter Specialist	Vacant	--							
7	Subject Matter Specialist	Vacant	--							
8	Programme Assistant	Smt. Ritika Samrath	Programme Assistant	Plant Pathology	35400-112400 (Basic 39900)	20.11.2019	2019	8839826721	ritu45880@gmail.com	
9	Computer Programmer / Programme Assistant	Sh. Kamal Kumar Dhruw	Programme Assistant	Information Technology	35400-112400 (Basic 39900)	31.10.2019	2019	7999092840	kamaldhruw@gmail.com	
10	Farm Manager	Sh. Dushyant Pandey	Farm Manager	Agronomy	35400-112400 (Basic 51600)	17.09.2012	2020	7225890041	dupandey@gmail.com	
11	Assistant	Sh. Mithilesh Kumar	(AG-1)	BE (Mechanical)	Fixed (26490)	20.09.2023	2023	94074677542	--	--
12	Assistant	Vacant	--							

13	Driver	Sh. Sanat Kumar Uike	Driver	I.T.I.	19500-62000 (Basic 31200)	29.04.2008	2008	9406286322	--	
14	Driver	Vacant	--							
15	Supporting staff	Sh. Rohanu	Messenger	Primary	15600-49400 (Basic 26600)	02.02.2007	2007	9399551723	--	
16	Supporting staff	Sh. Puranchand	Peon	Middle school	15600-49400 (Basic 25000)	16.09.2008	2018	9479148016	--	

1.3 Total land with KVK (in ha): 12.80

S. No.	Item	Area (ha)
1	Under Buildings	2.0
2	Under Demonstration Units	0.5
3	Under Crops	7.8
4	Orchard/Agro-forestry	1.5
5	Others (specify) fish ponds	1.0
Total		12.80

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR-ATARI, Jabalpur	03.04.2008	292	--	--	--	--
2	Farmers Hostel	ICAR-ATARI, Jabalpur	26.07.2008	423	--	--	--	--
3	Staff Quarters (6)	ICAR-ATARI, Jabalpur	2012	400	--	--	--	--
4	Demonstration Units (2)	ICAR-ATARI, Jabalpur	2020	245	--	--	--	--
5	Fencing	--	--	--	--	--	--	--
6	Rain Water harvesting system	--	--	--	--	--	--	--
7	Threshing floor	ICAR-ATARI, Jabalpur	2010	1100	--	--	--	--
8	Farm godown	Directorate of Agriculture, Raipur	July 2022	223	6000000.00	--	--	--

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2016	600000.00	4100 hrs	Good
Motor Cycle 2	2002, 2007	80000.00	255116, 249919	Very Poor
Bolero (Jeep)	2017	800000.00	114000	Good
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
LCD Projector	2019	45000.00	Good
LED TVs	2019	75000.00	Good
Interactive board	2020	55000.00	Good

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	16.05.2024
2	25.10.2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1 Bakawand Block	Kharif – Paddy, Maize, Millet, Blackgram and Horse Gram. Rabi – Toria, Pea and Mustard. Summer- Pumpkin and Bottle gourd
2	AES – 2 Lohandiguda Block	Kharif- Paddy, Maize, Groundnut, Horse Gram and Minor Millets. Rabi- Toria, Linseed Mustard. Summer- Maize, Summer rice and Pumpkin.
3	AES – 3 Darbha Block	Kharif- Paddy, Maize, Barley, Til, Ramtil, Black gram, green gram, Horse Gram. Rabi- Toria,pea, Linseed and Mustard. Summer- Maize, Summer rice.
4	AES – 4 Bastanar Block	Kharif- Paddy, Maize, Ramtil, Kodo, Black gram, green gram and red gram. Rabi- Toria, Linseed and Mustard. Summer- Maize, Summer rice and Pumpkin.
5	AES – 5 Jagdalpur Block	Kharif- Paddy, Maize, Black gram, green gram and Mustard. Rabi- Pea, Green gram, Linseed Mustard. Summer- Maize, Summer rice, Bottle gourd.
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 Bakawand Block	Sandy Loam soil, gently sloping and undulating.
2	AES – 2 Lohandiguda Block	Sandy, Lateritic and red soil, Moderately undulating.
3	AES – 3 Darbha Block	Loamy sand Lateritic and undulating Hillock.
4	AES – 4 Bastanar Block	Sandy Loam and undulating sloping valley.
5	AES – 5 Jagdalpur Block	Loam, Sandy Loam and sloping undulating.

SWOT Analysis of each Agro-Ecological Situations of district**AES-1 (Bakawand Block)**

Strength	Weakness	Opportunities	Threats
• Potential in Fruits and vegetable production	• Area of Millets is Less	• Millet area can be increased and Food processing industries should be taken into consideration.	• Monocropping area in cereals.

AES-2 (Lohandiguda Block)

Strength	Weakness	Opportunities	Threats
• Kulthi and minor millets better production	• Less productive area in abundance.	• Commercial Production of flowers	• Upland and less productive area

AES-3 (Darbha Block)

Strength	Weakness	Opportunities	Threats
Upland rice and Millets	soil and water conseravation.	Expansion of area under Mango, Lime, Jackfruit, Papaya and banana	Irrigated area is less and unawareness of Farm Mechanization.

AES-4 (Bastanar Block)

Strength	Weakness	Opportunities	Threats
Potential millet area	soil erosion problem	Requirement of Millet processing units in this area.	Gullies are formed so soil and water conservation measures are required.

AES-5 (Jagdalpur Block)

Strength	Weakness	Opportunities	Threats
Potential in Vegetable	Fragmentation of Field	Pulses area should be increased according to present scenario of soil and topography.	Lack of daily paid labours and Irrigation Facility

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	391.818
Forest	221.120
Waste Land	167.357
Other than cultivated area	35.454
Cultivable waste and alkaline land	26.668
Pastures	30.400
Bushes	0.00
Current Fallow	25.454
Other Fallow	10.0
Agricultural Land	190.469
Area Sown	187.287
Kharif	158.069
Rabi	29.218
Zaid	0.00
Cropping Intensity	118%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	3942
2	Well	2606
3	Tube well	9601
4	Ponds	9540
5	Others	44843

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Entisols (Bhata)	Entisols are sandy mineral soil, low in organic matter, natural fertility and water holding capacity	132.40
2	Alfisols (Dorsa)	They are moderately leached soil that have relatively high native fertility	282.49
3	Inseptisols (Matasi)	They are relatively new origin and characterized as a weakest appearance of horizon or layer	82.99
4	Clayey/Black (Bharri/Regular)	They are black soils rich in clay content, Magnesium (Mg), Calcium (Ca) and Potash (K) nut low in phosphate content	71.00

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	128069	5123700	40
2	Wheat	437	17280	40
3	Jwar	47	280	6
4	Maize	17270	657120	38.50
5	Kodo-Kutki	8027	5619.20	7.00
6	Gram	487	4970	10.21
7	Arhar	150	760	5.10
8	Urd	1886	9440	5.01
9	Til	91	37.80	4.15
10	Groundt nut	4	70	17.50
11	Niger	2483	7460	3.01
12	Rapeseed/Mustard	367	2940	8.01

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (° C)	
		Maximum	Minimum
Jan, 23	0.0	29.6	10.8
Feb, 23	0.0	32.3	11.0
Mar, 23	105.5	32.1	17.0
Apr, 23	64.9	34.4	20.1
May, 23	163.5	35.3	21.0
Jun, 23	232.9	35.7	22.7
July, 2023	398.3	29.5	22.6
Aug., 2023	213.3	29.9	22.1
Sept., 2023	232.3	29.4	22.1
Oct. 2023	6.2	31.7	17.9
Nov. 2023	15.8	30.4	16.1
Dec. 2023	54.0	27.4	14.1

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	7818 / 278556	 MT.	 kg
Buffalo	50383	 MT.	 kg
Sheep			
Crossbred/ Indigenous	13 / 28015	 MT wool	 kg
Goats	98170	 MT	 kg
Pigs Crossbred/ Indigenous	813 / 38188	---	---
Rabbits	--	--	--
Poultry			
Hens	1048293	1677 Lakh eggs	160 eggs/ bird/yr
Turkey and others	231		
Category	Area	Production	Productivity
Fish	2357 (ha)	1500 Q/ month	7.35 Q/ ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Tokapal	Tokapal	Kondaloor, Singhanpur	Rice, Vegetables	Low productivity	Enhancement of productivity of through varietal diversification,

						INM, IIPM and scientific management practices
2	Tokapal	Tokapal	Bade Marenga	Rice, maize and fish farming	Lack of awareness of improved agricultural technologies	Enhancement of fish production by composite fish farming and scientific management practice
3	Darbha	Darbha	Bhataguda, Lendra	Rice	Lack of awareness on use of agricultural machineries	Mechanization through introduction of improved implements in agriculture
4	Jagdarpur	Jagdarpur	Hatkachora, Adawal	Small livelihood activities like tamarind pod breaking, vegetables selling	Women groups are unemployed	Empowerment of women through various women-based income generating activities
5	Bastar	Bastar	Bade Chakwa, Nadi Sagar, Madhota	Rice, vegetables and flowers	Unemployed rural youth and lack of awareness about agricultural technologies	Promotion to rural youth for self-employment and development of IFS model

Priority / Thrust areas

S. No.	Particulars
1.	Enhancement of productivity of major crops like Rice, Maize, Niger, Ragi, Urd, Linseed through varietal diversification, INM, IIPM and scientific management practices.
2.	Enhancement of fish production in the district by composite fish farming and scientific management practice.
3.	Enhancement of productivity of horticultural crops by introduction of HYV and other scientific management practices.
4.	Mechanization through introduction of improved implements in agriculture.
5.	Empowerment of women through various women-based income generating activities.
6.	Income generation through value addition of crops & forest produce.
7.	Improve living standards of rural tribal people through Sanitation, health hygiene and balanced diet.
8.	Promotion rural youth for self-employment and development of IFS model.
9.	Processing and value addition of locally available non-timber forest produce and minor millets.

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
07	33	04	44

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
68	3222	118	2595

Seed Production (Qtl.)	Planting material (Nos.)
473	18800

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FL D if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Post-harvest management	Kodo millet	Low price of raw Kodo millet and high drudgery in traditional method of Kodo millet dehusking	Assessment of millet mill for processing of Kodo millet	--	--	--	--	--
2	Post-harvest management	Finger millet (Ragi)	Lack of knowledge about nutritional food, use of traditional diet	Assessment of nutritional benefits of value added ragi pej	--	--	--	--	--
3	Insect Pest Management	Maize	Poor yield due to severe infestation of FAW in maize	Assessment of fall Armyworm management (<i>Spodoptera frugiperda</i> J.E. Smith) in kharif maize	--	--	--	--	--
4	Insect Pest Management	Rice	Panicle mite is emerged as a newly infesting pest of rice, farmer are unaware about the pest	Assessment of IPM for Rice panicle mite	--	--	--	--	--

5	Insect Pest Management	Chickpea	Poor Yield due to severe infestation of pod borer	Assessment of Pod borer (<i>Helicoverpa armigera</i> Hubner) management in Chickpea	--	--	--	--	--
6	Enhancement of productivity of horticultural crops	Onion	Low quality Onion crop	Assessment of raised bed method on rainy season Onion bulb production.	--	--	--	--	--
7	Integrated Disease Management	Brinjal	Incidence of soil borne disease in brinjal results poor yield	Assessment of soil borne disease management in Brinjal	--	--	--	--	--

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Post-harvest management	02	--	--	--	--	--	--	--	--	02
Insect Pest Management	01	--	--	01	--	--	--	--	--	02
Plant Protection	--	--	--	--	--	--	--	01	--	01
Enhancement of productivity of horticultural crops	--	--	--	--	02	--	--	--	--	02
TOTAL	03	--	--	01	02	--	--	01	--	07

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Kodo millet	
Title of on farm trial	Assessment of millet mill for processing of Kodo millet	
Problem diagnosed	Low price of raw Kodo millet and high drudgery in traditional method of Kodo millet dehushing	
Farmers' Practices	Traditional method of Kodo dehushing	
Details of technologies selectedf or assessment	T ₁	Farmers practice
	T ₂	Processing and value addition in form of polished Kodo rice using improved millet mill machine.
Source of technology	CIAE, Bhopal	

Plot size	--
No. of farmers	04
Total cost	12000.00
Critical input	Kodo millets, packaging materials
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Dehusking efficiency (%), economics (B:C ratio), labour saving

OFT-2

Crop / Enterprise	Finger millet						
Title of on farm trial	Assessment of nutritional benefits of value added ragi pej						
Problem diagnosed	Lack of knowledge about nutritional food, use of traditional diet						
Farmers' Practices	Consumption of finger millet in the form of pej						
Details of technologies selected for assessment	<table> <tr> <td>T₁</td><td>farmers practice of finger millet consumption in the form of pej (finger millet + rice)</td></tr> <tr> <td>T₂</td><td>Value added finger millet pej (wheat grits + finger millet + broken rice)</td></tr> <tr> <td>T₃</td><td>Value added finger millet pej (what grits + green gram + finger millet + broken rice)</td></tr> </table>	T ₁	farmers practice of finger millet consumption in the form of pej (finger millet + rice)	T ₂	Value added finger millet pej (wheat grits + finger millet + broken rice)	T ₃	Value added finger millet pej (what grits + green gram + finger millet + broken rice)
T ₁	farmers practice of finger millet consumption in the form of pej (finger millet + rice)						
T ₂	Value added finger millet pej (wheat grits + finger millet + broken rice)						
T ₃	Value added finger millet pej (what grits + green gram + finger millet + broken rice)						
Source of technology	--						
Plot size	--						
No. of farmers	05						
Total cost	15000.00						
Critical input	Value added grain mix for pej preparation						
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Weight gain (kg), nutritional evaluation grain mix						

OFT-3

Crop / Enterprise	Maize				
Title of on farm trial	Assessment of fall Armyworm management (<i>Spodoptera frugiperda</i> J.E. Smith) in kharif maize				
Problem diagnosed	Poor yield due to severe infestation of FAW in maize				
Farmers' Practices	Application of Profenophos 40 EC @ 750-800 ml/ha				
Details of technologies selected for assessment	<table> <tr> <td>T₁</td><td>Use of pheromone trap @ 25 no/ha and Profenophos 40 EC + Cypermethrin 4 EC @ 750-800 ml/ha</td></tr> <tr> <td>T₂</td><td>Use of pheromone trap @ 25 no/ha and Novaluraon 5.25% + Emamectine benzoate 0.9% w/w SC @ 1250 ml/ha</td></tr> </table>	T ₁	Use of pheromone trap @ 25 no/ha and Profenophos 40 EC + Cypermethrin 4 EC @ 750-800 ml/ha	T ₂	Use of pheromone trap @ 25 no/ha and Novaluraon 5.25% + Emamectine benzoate 0.9% w/w SC @ 1250 ml/ha
T ₁	Use of pheromone trap @ 25 no/ha and Profenophos 40 EC + Cypermethrin 4 EC @ 750-800 ml/ha				
T ₂	Use of pheromone trap @ 25 no/ha and Novaluraon 5.25% + Emamectine benzoate 0.9% w/w SC @ 1250 ml/ha				
Source of technology	ICAR, New Delhi				
Plot size	0.40 ha				
No. of farmers	5				
Total cost	2000 per demo				
Critical input	Seed, Pesticide, Pheromone trap				
Performance indicators: (vii) Growth and Yield attributes (viii) Technical- yield (q/ ha) (ix) Economic (x) Social – Employment generation					

OFT-4

Crop / Enterprise	Paddy		
Title of on farm trial	Assessment of IPM for Rice panicle mite.		
Problem diagnosed	Panicle mite is emerged as a newly infesting pest of rice, farmer are unaware about the pest		
Farmers' Practices	Use of conventional insecticide		
Details of technologies selected for assessment	<table> <tr> <td>T₁</td><td>Diafenthiurone 50% WP@ 1.5 g/lit + Propiconazole 25 EC @1 ml/Ltr (Two application- 1st late tillering satge, 2nd milking stage)</td></tr> </table>	T ₁	Diafenthiurone 50% WP@ 1.5 g/lit + Propiconazole 25 EC @1 ml/Ltr (Two application- 1 st late tillering satge, 2 nd milking stage)
T ₁	Diafenthiurone 50% WP@ 1.5 g/lit + Propiconazole 25 EC @1 ml/Ltr (Two application- 1 st late tillering satge, 2 nd milking stage)		
Source of technology	PJTSAU, Kampasagar, Telangana 2019-20		
Plot size	0.40 ha		
No. of farmers	05		
Total cost	1500 per demo		

Critical input	Miticide (2 dose each farmer)
Performance indicators: (xi) Growth and Yield attributes (xii) Technical- yield (q/ ha) (xiii) Economic (xiv) Social – Employment generation	Affected panicles/m ² , Crop yield (q/ha), B:C Ratio

OFT-5

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of Pod borer (<i>Helicoverpa armigera</i> Hubner) management in Chickpea
Problem diagnosed	Poor Yield due to severe infestation of pod borer
Farmers' Practices	Chloropyrifos 30 EC @ 750-800 ml/ha
Details of technologies selected for assessment	T ₁ Pheromone trap @ 25 no/ ha + Indoxacarb 15.8 EC @ 425 ml/ha T ₂ Pheromone trap @ 25 no/ha + bird perches 50 no/ha + NPV @ 250LE/ha
Source of technology	IIPR, Kanpur
Plot size	0.40 ha
No. of farmers	5
Total cost	2000 per demo
Critical input	Seed, Pesticide, Biopesticide, pheromone trap
Performance indicators: (xv) Growth and Yield attributes (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	Seed, Pesticide, Biopesticide, pheromone trap

OFT-6

Crop / Enterprise	Onion
Title of on farm trial	Assessment of raised bed method on rainy season Onion bulb production.
Problem diagnosed	Low quality Onion crop
Farmers' Practices	Flatbed rainy season onion cultivation
Details of technologies selected for assessment	T ₁ Flat bed rainy season onion cultivation T ₂ Assessment of raised bed method on rainy season onion cultivation T ₃ -
Source of technology	AUAT Kanpur
Plot size	0.2 ha
No. of farmers	04
Total cost	8000.00
Critical input	Onion seed
Performance indicators: (xix) Growth and Yield attributes (xx) Technical- yield (q/ ha) (xxi) Economic (xxii) Social – Employment generation	Growth and Yield

OFT-7

Crop / Enterprise	Brinjal
Title of on farm trial	Assessment of soil borne disease management in Brinjal
Problem diagnosed	Incidence of soil borne disease in brinjal results poor yield
Farmers' Practices	No such practice
Details of technologies selectedfor assessment	T ₁ No such practice T ₂ Soil treatment with <i>T. viride</i> + <i>P. fluorescence</i> @ 6 kg/ha T ₃ Seedling dip with <i>T. harzanium</i> + <i>P. fluorescence</i> @ 10 g powder mixed in a liter of water
Source of technology	VNMKV, Parbhani
Plot size	--
No. of farmers	5
Total cost	15000.00
Critical input	Trichoderma

Performance indicators: (xxiii) Technical- yield (q/ ha) (xxiv) Economic (xxv) Social – Employment generation	Crop yield, PDI (Percentage Disease Incidence)

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agricultural Engineering
Title of on-farm trial:	Assessment of millet mill for processing of Kodo millet
Year/Season:	Kharif 2024
Farming situation:	--
Problem diagnosis:	Low price of raw Kodo millet and high drudgery in traditional method of Kodo millet dehushing
Thematic area:	Post harvest management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional method of Kodo dehushing
T2 –Recommended Practice-	Processing and value addition in form of polished Kodo rice using improved millet mill machine
T3- Recommended Practice-	--
Date of sowing:	--
Date of harvesting:	--
Source of technology:	CIAE, Bhopal
Characteristics of technology:	Processing and value addition in form of polished Kodo rice using improved millet mill machine
Name of Crop/Enterprises:	Kodo millet
Recommendations for Farmers	--
Recommendations for Deptt. Personnel	--
Feedback	--

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agricultural Engineering
Title of on-farm trial:	Assessment of nutritional benefits of value added ragi pej
Year/Season:	Kharif 2024
Farming situation:	--
Problem diagnosis:	Lack of knowledge about nutritional food, use of traditional diet
Thematic area:	Post harvest management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	farmers practice of finger millet consumption in the form of pej (finger millet + rice)
T2 –Recommended Practice-	Value added finger millet pej (wheat grits + finger millet + broken rice)
T3- Recommended Practice-	Value added finger millet pej (what grits + green gram + finger millet + broken rice)
Date of sowing:	--
Date of harvesting:	--
Source of technology:	CIAE, Bhopal
Characteristics of technology:	Processing and value addition finger millet
Name of Crop/Enterprises:	Finger millet
Recommendations for Farmers	--
Recommendations for Deptt. Personnel	--
Feedback	--

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Entomology
Title of on-farm trial:	Assessment of fall Armyworm management (Spodoptera frugiperda J.E. Smith) in kharif maize
Year/Season:	Kharif 2024
Farming situation:	Upland Rainfed
Problem diagnosis:	Poor yield due to severe infestation of FAW in maize
Thematic area:	Insect Pest management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of pheromone trap @ 25 no/ha and Profenophos 40 EC + Cypermethrin 4 EC @ 750-800 ml/ha
T2 –Recommended Practice-	Use of pheromone trap @ 25 no/ha and Novaluraon 5.25% + Emamectine benzoate 0.9% w/w SC @ 1250 ml/ha
T3- Recommended Practice-	--
Date of sowing:	July 2024
Date of harvesting:	November 2024
Source of technology:	ICAR, New Delhi
Characteristics of technology:	Use of pheromone trap @ 25 no/ha and Novaluraon 5.25% + Emamectine benzoate 0.9% w/w SC @ 1250 ml/ha
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	--
Recommendations for Deptt. Personnel	--
Feedback	--

Name of Discipline (like Agronomy/Horticulture/	Entomology

Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of IPM for Rice panicle mite
Year/Season:	Kharif 2024
Farming situation:	Midland Rainfed
Problem diagnosis:	Panicle mite is emerged as a newly infesting pest of rice, farmer are unaware about the pest
Thematic area:	Insect Pest management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of conventional insecticide
T2 –Recommended Practice-	Diafenthurone 50% WP@ 1.5 g/lit + Propiconazole 25 EC @1 ml/Ltr (Two application- 1st late tillering satge, 2nd milking stage)
T3- Recommended Practice-	--
Date of sowing:	July 2024
Date of harvesting:	November 2024
Source of technology:	PJTSAU, Kampasagar, Telangana 2019-20
Characteristics of technology:	Diafenthurone 50% WP@ 1.5 g/lit + Propiconazole 25 EC @1 ml/Ltr (Two application- 1st late tillering satge, 2nd milking stage)
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	--
Recommendations for Deptt. Personnel	--
Feedback	--

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Entomology
Title of on-farm trial:	Assessment of Pod borer (Helicoverpa armigera Hubner) management in Chickpea
Year/Season:	Kharif 2024
Farming situation:	Midland irrigated
Problem diagnosis:	Poor Yield due to severe infestation of pod borer
Thematic area:	Insect Pest management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Pheromone trap @ 25 no/ ha + Indoxacarb 15.8 EC @ 425 ml/ha
T2 –Recommended Practice-	Use of pheromone trap @ 25 no/ha and Novaluraon 5.25% + Emamectine benzoate 0.9% w/w SC @ 1250 ml/ha
T3- Recommended Practice-	--
Date of sowing:	July 2024

Date of harvesting:	November 2024
Source of technology:	ICAR, New Delhi
Characteristics of technology:	Use of pheromone trap @ 25 no/ha and Novaluraon 5.25% + Emamectine benzoate 0.9% w/w SC @ 1250 ml/ha
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	--
Recommendations for Deptt. Personnel	--
Feedback	--

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of raised bed method on rainy season Onion bulb production
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Low quality Onion crop
Thematic area:	Enhancement of productivity of horticultural crops
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Flatbed rainy season onion cultivation
T2 –Recommended Practice-	Assessment of raised bed method on rainy season onion cultivation
T3- Recommended Practice-	--
Date of sowing:	August 2024
Date of harvesting:	October 2024
Source of technology:	AUAT Kanpur
Characteristics of technology:	Assessment of raised bed method on rainy season onion cultivation
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	--
Recommendations for Deptt. Personnel	--
Feedback	--

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of soil borne disease management in Brinjal
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Incidence of soil borne disease in brinjal results poor yield
Thematic area:	Integrated Disease Management
No of trials:	04
No. of farmers involved	04

Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No such practice
T2 –Recommended Practice-	Soil treatment with T.viride + P. fluorescence @ 6 kg/ha
T3- Recommended Practice-	Seedling dip with T.harzanium + P. fluorescence @ 10 g powder mixed in a liter of water
Date of sowing:	August 2024
Date of harvesting:	October 2024
Source of technology:	VNMKV Parbhani
Characteristics of technology:	Soil treatment with T.viride + P. fluorescence @ 6 kg/ha
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	--
Recommendations for Deptt. Personnel	--
Feedback	--

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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 Dept. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Maize	Integrated Pest Management	Timely sowing + use of pheromone trap @ 25 no/ha + bird perches @ 50 no/ha + Emamectine benzoate 5 SG @ 150 g/ha	Crop seed, pheromone trap, pesticide	Rabi 2024-25	4	10	Yield (q/ha) and Economics
2	Brinjal	Horticulture	Local Check/ Farmer Practice: Hybrid variety	Seed	Summer 2024	4	10	Yield (q/ha) and Economics

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	September, January	160
2	Farmers Training	08	July, August, December, January	320
3	Media coverage	04	August, January	Mass
4	Training for extension functionaries	02	September, January	60

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Seed cum fertilizer drill machine	Paddy	Kharif/2024	12	05	Seed, herbicides, insecticides	Yield (q/ha), Field efficiency (%), seed rate (kg/ha)	--	--
Paddle operated mahua stamen removal	Mahua	Summer/2023	12	--	Mahua, stamen removal machine	Cleaning efficiency (%), Economics (B:C ratio)	--	--

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

**Milk production, meat production, egg production, reduction in disease incidence etc.*

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Chickpea	Natural Farming	Improved variety	Seed	Kharif 2024	10	25	Yield (q/ha) and Economics
2	Sun flower	Natural Farming	Improved variety	Seed	Rabi 2024	10	25	Yield (q/ha) and Economics

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	03	September, January	120
2	Farmers Training	06	July, August, December, January	240
3	Media coverage	02	August, January	Mass
4	Training for extension functionaries	01	September, January	30

Training (Including the sponsored and FLD training programmes):

A) ON Campus

[illegible]

[illegible]

[illegible]

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July	Farmer/Farm Women	Training on pulse production technology	1	5	5	10	20	10	30	40
July	Farmer/Farm Women	Training on pulse production technology	1	5	5	10	20	10	30	40
August	Farmer/Farm Women	Training on oilseed production technology	1	5	5	10	20	10	30	40
Horticulture										
Livestock production										
Home Science										
Plant Protection										
Sep	Farmer/Farm Women	Training on Insect Pest Management of Crop	1	5	5	10	20	10	30	40
Oct	Farmer/Farm Women	Training on Insect Pest Management of Crop	1	5	5	10	20	10	30	40
Nov	Farmer/Farm Women	Training on Insect Pest Management of Crop	1	5	5	10	20	10	30	40
Agriculture Extension (Capacity Building and Group Dynamics)										
Jan	Farm Women	Training On Herbal Gulal Production Technology	0	0	0	0	0	0	0	0
Feb	Farm Women	Training On Herbal Gulal Production Technology	0	0	0	0	0	0	0	0
March	Farm Women	Training On Herbal Gulal Production Technology	0	0	0	0	0	0	0	0
April	Farm/Farm Women	Biocontrol Techniques	1	5	5	10	20	10	30	40

		for Pest and Disease Management								
May	Farm/Farm Women	Biocontrol Techniques for Pest and Disease Management	1	5	5	10	20	10	30	40
June	Farm/Farm Women	Biocontrol Techniques for Pest and Disease Management	1	5	5	10	20	10	30	40
Agricultural Engineering										
February	Farmer/Farm Women	Training on summer deep ploughing	1	5	5	10	20	10	30	40
July	Farmer/Farm Women	Training on paddy cultivation using improved agricultural machineries	1	5	5	10	20	10	30	40
September	Farmer/Farm Women	Training on safe crop harvesting to minimize losses	1	5	5	10	20	10	30	40

2. Off Campus

[illegible]

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Horticulture

Livestock production

Home Science

Plant Protection

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July	Farmer/farm women	Training on pulse production technology	1	20	5	25	5	5	10	35
August	Farmer/farm women	Training on pulse production technology	1	20	5	25	5	5	10	35
September	Farmer/farm women	Training on oilseed production technology	1	20	5	25	5	5	10	35
Horticulture										
Livestock production										
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

iii) Sponsored Training Programmes

S. No .	Title	Thematic area	Duration	Client PF/ RY/ EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Training on	Crop production	1	Farm /Farm	1	0	0	15	15	0	0	30	STRY

	organic farming techniques	and management		Women									
2	Training on bee keeping and harvesting of honey	Bee keeping	1	Farm /Farm Women	1	10	0	0	10	0	0	20	Deputy Director of Horticulture

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	6	180	60	240	10	5	15	190	65	255
Kisan Mela	2	400	200	600	20	15	35	420	215	635
Kisan Ghosthi	5	240	120	360	12	5	17	252	125	377
Exhibition	10	520	242	762	10	5	15	530	247	777
Film Show	1	50	40	90	2	3	5	52	43	95
Method Demonstrations	5	62	41	103	5	2	7	67	43	110
Farmers Seminar	3	60	24	84	3	2	5	63	26	89
Workshop	2	175	85	260	5	1	6	180	86	266
Group meetings	6	60	42	102	4	2	6	64	44	108
Lectures delivered as resource persons	35	420	242	1039	2	2	4	422	246	1043
Newspaper coverage	20	411	572	983	4	2	6	415	574	989
Radio talks	2	12000	857	12857	1	5	6	12022	862	12884
TV talks	2	12000	857	12857	1	5	6	12022	862	12884
Popular articles	10	5420	1200	6620	8	2	10	5428	1202	6630
Extension Literature	5	828	128	956	5	1	6	962	129	1919
Advisory Services	82	12000	857	12857	1	5	6	12022	862	12884
Scientific visit to farmers field	36	72	12	84	4	2	6	76	14	90
Farmers visit to KVK	80	5136	1242	6378	5	1	6	5141	1243	6384
Diagnostic visits	36	50	40	90	2	3	5	52	43	95
Exposure visits	8	28	32	60	3	1	4	31	33	64
Ex-trainees Sammelan	1	50	20	70	4	1	5	54	21	75
Soil health Camp	1	50	20	70	2	3	5	52	23	75
Animal Health Camp	1	22	10	32	2	2	4	24	12	36
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	0	0	0	0	0	0	0	0	0	0
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	1	12	7	19	3	1	4	15	8	23
Mahila Mandals Conveners meetings	1	0	10	10	2	1	3	2	11	13
Celebration of important days (specify)	15	780	410	590	4	2	6	784	412	596
Others (pl. specify)	10	680	322	1002	5	3	8	685	325	1010
Total	118	2034	389	2089	66	37	88	6616	584	2595

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	Vikram TCR	150.0
		IGKVR-2	90.0
	Wheat	CG-gehu-03	15.0
OILSEEDS	-	-	-
PULSES	Field pea	Indira Matar-1	8.0
VEGETABLES	Bottle Gourd	VNR-11	100.0
	Pumpkin	MAHY-104	100.0
FLOWER CROPS	Marigold	Hybrid	10.0

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango	Dussehri	1000
		Mallika	1000
		Amrapali	1000
	Pomegranate	Ganesh	500
	Guava	Allahabad safeda	100
VEGETABLES	Karonda	Manohar	1000
	Cashewnut	V-4	1000
	Bottle gourd	VNR-11	500
	Pumpkin	MAHY-104	500
	Brinjal	VNR-60	5000
FOREST SPECIES	Tomato	Swaraksa	1000
	Bamboo	Bambusa sp.	2000
ORNAMENTAL CROPS	Ajwain	-	200
	Areca Palm	Mexican selection	1000
	Royal Palm	African Selection	1000
PLANTATION CROPS	-	-	-
Fodder	Super Napier	Panchong-1	2000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	<i>Trichoderma harzanium</i>		500 kg
2	<i>Rhizobium</i>			
3				
BIOFERTILIZERS				
1	Vermicompost	<i>Eisenia foetida</i>		60 qt
2	NADEP			
3				

BIO PESTICIDES				
1	Dasparni arkl	Use of different leaves (Dhatura, Bael, Neem, Papaya etc.)		500 liters
2	Pesticides	Brahmastra		1500 liter

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Calf	Sahiwal	08	-
SHEEP AND GOAT	--	-	-	-
POULTRY	Hen	Kadaknath	30	30
FISHERIES		Pangasius sp.	5000	5000
		Rohu	1000	1000
		Katla	1000	1000
Duckery	Duck	Rajhans	15	15

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
1 st month of every quarter	Quarterly	500/quarter

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			

Success stories/Case studies identified for development as a case: 02 (no.)

Indicate the specific training need analysis tools/methodology followed for (Viz PRA, AES, line dept, ex trainees, interface)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA
2	Rural Youth	Interface
3	In-service personnel	Line department
4	methodology for identifying OFTs/FLDs	interface
5	Matrix ranking	PRA

Field activities

Name of villages identified for adoption with block name:

S. No.	Name of Village	Name of Block	Distance of village from KVK (Km)

1	Takraguda	Lohandiguda	28.00 km
2	Ghatpadmoor	Jagdapur	20.00 km
3	Kondaloor	Tokapal	25.00 km
4	Moratpal	Tokapal	28.00 km
5	Chaparbhanpuri	Tokapal	32.00 km
6	Nadisagar	Bastar	30.00 km
7	Tikralohanga	Bastar	31.00 km
8	Badechakwa	Bastar	32.00 km

1. No. of farm families selected per village: 10
2. No. of survey/PRA to be conducted: 02

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2008

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Nitrogen estimation unit	01	Poor
2	Atomic absorption spectrophotometer	01	Poor
3	Flame photometer	01	Poor
4	Water distillation unit	01	Need maintenance
5	Hot air oven	01	Need maintenance

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	--	--	--	--
Water Samples	--	--	--	--
Total	--	--	--	--

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture	Training and extension activities, Sharing of resource person, Expert advice
Department of Horticulture	Training and extension activities, Sharing of resource person, Expert advice
Department of Veterinary	Training and extension activities, Sharing of resource person, Expert advice
Department of Fisheries	Training and extension activities, Sharing of resource person, Expert advice

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No **YES**

Name of Programme	Nature of linkage
Farmers scientist interaction programme under ATMA B-11 component	Training and extension, diagnostic survey and field activities

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Bee keeping production	Training and extension, diagnostic survey and field activities

Action plan for Flagship programmes implemented at KVK
(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
August, September	Front line demonstration of millet crops	Farmers of adopted village of KVK, Bastar
August, September	Demonstration of Agri drone at farmers' fields	10 ha
January, February, August, September, October	Awareness programmes on natural farming	200 farmers

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 275 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Wheat	Rabi	CG-Gehu-04	Suitable for Bastar climatic condition	10x10
Field pea	Rabi	Indira Matar - 1	High Production and powdery mildew resistance	10x10
Green gram	Zaid	IPM-02-03	Disease resistance	5x5
Pumpkin	Zaid	VNR-11	Powdery mildew resistance	5x5
Bottle gourd	Zaid	MAHY-104	Powdery mildew resistance	5x5

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Kadaknath poultry unit	Kadaknath 150 unit,	600	600 kg
Vermicompost	12 vermi tank	432 (2x36)	3.5 ton
Semi bio flock (fish)	Telapia	1500	12 qtl
Dairy	8 Calf	360 (12x30)	-

ANNUAL ACTION PLAN 2024

KVK Bemetara

Year of Sanction –2017

1.1 Name of the Programme Co-ordinator with phone & mobile No.

Name	Telephone/Contact			
	Office	Mobile	Email	Website
Shri Toshan Kumar Thakur	Krishi Vigyan Kendra, Bemetara, Village –Jhal, Chhattisgarh	98266-87395, 70672-87806	kvk.bemetara@igkv.ac.in	kvk.bemetara@igkv.org

1.2 Staff Position on (31st Dec, 2023)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Vacant	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Shri Toshan Kumar Thakur I/c	SMS	Fisheries	15600-39100	07/09/2012	02/07/2020	98266-87395	toshan.thakur@gmail.com	
3	Subject Matter Specialist	Dr. Jitendra Kumar Joshi	SMS	Farm Machinery and Power Engg.	15600-39100	05/10/2018	05/10/2018	78050-39366	jitigkv@gmail.com	
4	Subject Matter Specialist	Dr. Lav Kumar Sahu	SMS	Horticulture	15600-39100	13-09-2023	13-09-2023	98933-63083	Sahulove7@gmail.com	
5	Subject Matter Specialist	Dr. (Smt) Tripti Thakur	SMS	Soil Science	15600-39100	13-09-2023	13-09-2023	78987-70214	nayaktripti66@gmail.com	
6	Subject Matter Specialist	Vacant	SMS	Agronomy	-	-	-	-	-	-
7	Subject Matter Specialist	Vacant	SMS	Entomology	-	-	-	-	-	-
8	Programme Assistant	Dr. Akhilesh Kumar Kulmitra	P.A.	Plant Pathology	9300-34800	04-10-2023	04-10-2023	83190-11576	akhil.patho@gmail.com	
9	Computer Programmer/ Programme Assistant	Shri Shiv Kumar Sinha	PA(Comp.)	Computer Application	9300-34800	06/09/2012	03/05/2017	79999-46840	sksinhanarayanpur@gmail.com	
10	Farm Manager	Vacant	-	-	-	-	-	-	-	-
11	Assistant	Shri Palash Choubey	AG-I	AG-I	5200-20200	10/06/2021	10/06/2021	81090-92018	palash.choubey@yahoo.in	
12	Jr. Stenographer / Comp. Operator	Shri Bhagwat Prasad Verma	AG-II	AG-II	5200-20200	16/06/2021	16/06/2021	88392-70321	bprasad3185@gmail.com	
13	Driver	Shri Sparsh Patel	Driver	Jeep	5200-20200	16/06/2021	16/06/2021	77240-66863	sparshp610@gmail.com	
14	Driver	Vacant	-	-	-	-	-	-	-	-
15	Supporting staff	Shri Omprakash Sahu	Peon	Peon	4750-7440	15/06/2021	15/06/2021	96302-88821	omprakash14081988@gmail.com	
16	Supporting staff	Vacant	-	-	-	-	-	-	-	-

1.3 Total land with KVK (inha): 2024

S. No.	Item	Area (ha)
1	Under Buildings	0.8
2	Under Demonstration Units	0.01

3	Under Crops	07
4	Orchard/Agro-forestry	04
5	Others (Aromatic crops, Fallow Land, Pond, Road)	08
Total		20

1.4 InfrastructuralDevelopment:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	14.11.2021	750	47.60	16.06.2020	-	Completed
2	Farmers Hostel	ICAR	14.11.2021	300	34.58	21.09.2020	-	Completed
3	Staff Quarters (6)	-	-	-	-	-	-	-
4	Demonstration Units (2)	-	-	-	-	-	-	-
5	Fencing (barbed wire)	MGNREGA	14.11.2021	-	-	-	-	Completed
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm/SeedGodown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2019	594086.52	2713.3 hour	Good working condition
Motor Cycle 2	-	-	-	-
Bolero (Jeep)	2018	774890.00	175764 km	Good working condition
Other (Pl. specify)	-	-	-	-

C) Equipment&AVaids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Photocopy mashine-1	30.03.2019	49998.99	Working
Computer-1	30.03.2019	98040.00	Working
Computer-2			
Computer-3	30.03.2019	84990.00	Working
Computer-4			
Computer-5	21.03.2020	9864.00	Working
Computer-6	24.03.2020	9625.00	Working
Computer-7	25.03.2020	9924.00	Working
Computer-8	25.03.2020	9924.00	Working
Printer-1	30.03.2019	9900.00	Working
Printer-2	2018	13500.00	Not Working
Printer-3	25.03.2020	9853.00	Working
Printer-4	25.03.2020	9947.40	Working
Printer-5	28.03.2022	18999.99	Working
Printer-6	29.03.2020	28958.00	Working
Printer-7	24.03.2020	9900.00	Not Working
Printer-8	23.03.2020	9850.00	Not Working
UPS-1	24.02.2020	4192.00	Working
UPS-2	2017	1600.00	Working
UPS-3	26.03.2020	4967.80	Working
UPS-4	28.03.2022	2700.00	Working
UPS-5	21.02.2019	1700.00	Working
UPS-6	05.03.2019	7950.00	Working
UPS-7			Working
UPS-8			Working
Camera-1	30.03.2019	49878.99	Working
Projector-1	30.03.2019	44000.00	Working

1.5(A)DetailsofSACmeeting to be conducted intheyear

Sl. No.	Tentative Date
1.	12.07.2024

2. DETAILS OF DISTRICT

Major farming systems/enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S.No.	Farming system/enterprise	Description
1	Rainfed Paddy	Broadcasting biasi, Line sowing, Transplanted rice, Direct seeded rice
2	Rainfed Soybean	Line sowing of soybean, BBF Sowing
3	Paddy – Chickpea	Transplanted rice-line sowing of chickpea
4	Soybean – Chickpea	Flat bed sowing of soybean – line sowing of chickpea
5	Vegetables	Tomato, Cauliflower, Brinjal, Lady Finger, Chilly

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	Chhattisgarh plain zone	
2	Vertisols (Kanhra-clayey)	Low-lying deep bluish black soil with high moisture retention capacity. It is well suited for rabi crops, particularly chickpea & wheat
3	Inceptisol (Matasi-Sandy loam)	This is a yellow sandy soil, with an admixture of clay. It has limited moisture retention capacity. It is well suited for kharif crops, particularly for paddy & soybean.
4	Alfisols (Dorsa-clay loam)	This type of soil is intermediate in terms of soil moisture retention between kanhra and matasi. This is best described as loamy, and is a colour between brown and yellow.
5	Entisol (Bhata-gravelly)	This soil is a coarse-textured, red sandy-gravelly soil, found on upland tops. It is deficient in minerals and other productivity enhancing nutrients.

SWOT Analysis of each Agro-Ecological Situation of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
☐	☐	☐	☐

AES-2 (name)

Strength	Weakness	Opportunities	Threats
☐	☐	☐	☐

AES-3 (name)

Strength	Weakness	Opportunities	Threats
☐	☐	☐	☐

AES-4 (name)

Strength	Weakness	Opportunities	Threats
☐	☐	☐	☐

Add AES if needed

Land Use Pattern

S. No.	Particulars	Area “000 ha”
1	Total Geographical area	285.481
2	Forest	0.040
3	Waste Land	52.770
4	Other than cultivated area	-
5	Cultivable waste and alkaline land	5.340
6	Pastures	23.260
7	Bushes	-
8	Current Fallow	2.950
9	Other Fallow	4.400

10	Agricultural Land	392.585
11	Area Sown	397.818
12	Kharif	224.669
13	Rabi	171.949
14	Zaid	1.200
15	Cropping Intensity	176

IrrigatedAreawithDifferentSources:

S. No.	Description	Area (ha)
1	Canal	24000
2	Well	26
3	Tube well	91600
4	Ponds	2280
5	Others	2080
TOTAL		27922

Soiltypes:

S. No.	Soil type	Area, Ha		
		Irrigated	Un-irrigated	Total
1	Entisol (Bhatha)	3575.32	20773.09	24348.41
2	Sandy Loam (Matasi)	4486.10	26193.00	30679.10
3	Clay Loam (Dorsa)	2425.00	30944.00	39369.00
4	Clayey (Kanhar)	11083.58	117494.03	128577.61
5	(Kachhar	352.00	2123.88	2475.88
TOTAL		21922.00	197528.00	225450.00

Area,ProductionandProductivityofmajorcropscultivatedinthedistrict

Kharif-

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	199222	5478600.00	27.50
2	Ragi	650	0.0	0.0
3	Jawar	8	0.0	0.0
4	Kodo	386	4830.00	12.50
5	Pigeonpea	2840	30700.00	10.80
6	Soybean	3230	33100.00	10.25
7	Sugarcane	3778.097	348718.00	92.300
8	Maize	266.42	5070.00	26.40
9	Black gram	132	900.00	6.80
10	Green gram	23	140.00	5.90
11	Groundnut	1009	15500.00	15.40
12	Til	63	300.00	4.35
13	Banana	1146	294580.00	-
14	Guava	562	160220.00	-
15	Mango	1036	40850.00	-
16	Papaya	773	29458.00	-
17	Lemon	304	17760.00	-
18	Jack fruit	28	4600.00	-
19	Ber	101	4950.00	-
20	Anola	29	7700.00	-
21	others	92	3740.0	
22	Brinjal	1829	452950.00	-
23	Tomato	2502	520040.00	-
24	Turmeric	266	11380.00	-
25	Ginger	180	31200.00	-

26	Elephant foot yam	471	93680.00	-
27	Garlic	539	15960.00	-

Rabi –

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Wheat	52000	1045200.00	20.10
2	Maize	2000	60900.00	30.43
3	Ragi	550	0.00	0.00
4	Chickpea	71800	719400.00	10.02
5	Lathyrus	29010	66600.00	2.38
6	Pea	1000	8200.00	8.22
7	Lentil	28000	20900.00	6.52
8	Green gram	50	300.00	5.63
9	Black gram	100	600.00	6.13
10	Mustard	3000	16600.00	5.52
11	Linseed	1200	5200.00	4.31
12	Safflower	300	1800.00	6.12
13	Sunflower	100	0.00	0.0
14	Til	450	0.00	0.0
15	Groundnut	150	2300.00	15.02
16	Sugarcane	1000	922100.00	92.20
17	S. Orange	12	710.00	-
18	Custard apple	23	690.00	-
19	Water Melon	88	16000.00	-
20	Musk Melon	121	12710.00	-
21	Dragon Fruit	55	2620.0	-
22	Sapota	0	0.00	-
23	Pomegranate	56	1000.00	-
24	Cauliflower	1692	339240.00	-
25	Onion	591	125350.00	-
26	Potato	969	556450.00	-
27	Coriander	1274	73420.00	-
28	Cabbage	1335	227650.00	-
29	Beans	308	20760.00	-
30	Bitter Guard	822	271360.00	-
31	Green Pea	707	72120.00	-
32	cawpea	1066	116630.00	-
33	Bhindi	1541	218650.00	-
34	Knolkhol	1022	191200.00	-
35	Kaddu	232	89460.00	-
36	Bottle guard	699	176780.00	-
37	Green Chilli	827	26750.00	-
38	Shimla Mirch	246	22700.00	-
39	Carrot	303	17250.00	-
40	Radish	319	37280.00	-
41	Parwal/kundru	175	17730.00	-
42	Methi	130	6000.0	-

Area and Production of major Horticulture crops cultivated in the district

S. No.	Crops	Area (In ha)	Production (In MT)
1	Fruits	4435	86814.00
2	Vegetables	19337	377559.00
3	Spices	2939	17884.00
4	Flowers	158	2060.40
5	Medicinal & Aromatic	0	0.00

Weather data (Jan, 2023-Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 2023	0	32 ⁰ c	9 ⁰ c
Feb, 2023	0	36 ⁰ c	11 ⁰ c
Mar, 2023	36.9	36 ⁰ c	18 ⁰ c
Apr, 2023	44.6	42 ⁰ c	20 ⁰ c
May, 2023	25.1	43 ⁰ c	20 ⁰ c
Jun, 2023	84.4	44 ⁰ c	25 ⁰ c
July, 2023	283.4	37 ⁰ c	23 ⁰ c
Aug., 2023	207.0	35 ⁰ c	23 ⁰ c
Sept., 2023	361.5	35 ⁰ c	23 ⁰ c
Oct. 2023	5.3	35 ⁰ c	16 ⁰ c
Nov. 2023	0	33 ⁰ c	15 ⁰ c
Dec. 2023	0	31 ⁰ c	14 ⁰ c

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle	417937	94	87280164
Crossbred/ Indigenous		 MT.	 kg
Buffalo	54713	 MT.	 Kg
Sheep	8945		
Crossbred/ Indigenous		 MT wool	 Kg
Goats	102089	 MT	 Kg
Pigs Crossbred/ Indigenous	1749	---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	3680.75 (ha)	29450 Q	8.0 Q/ ha.

Livestock Resources in Bemetara District

Block	Villages (Nos.)	Cattle			Buffalos		
		M	F	Total	M	F	Total
Bemetara	196	33473	81907	115380	4974	11047	16021
Berla	138	24984	90889	105873	3989	13057	17046
Nawagarh	201	29476	61350	90826	4056	6755	10811
Saja	244	31147	74711	105858	4561	6274	10835
TOTAL	779	119080	308857	417937	17580	37133	54713

Block	Villages (Nos.)	Sheep			Goat			Pig		
		M	F	Total	M	F	Total	M	F	Total
Bemetara	196	421	1661	2082	13266	25060	38326	396	439	835
Berla	138	1701	3199	4900	4002	15910	20712	67	152	219
Nawagarh	201	403	877	1280	5109	14564	19673	72	90	162
Saja	244	161	522	683	7755	15623	23378	169	364	533
TOTAL	779	2686	6259	8945	30132	71157	102089	704	1045	1749

Fisheries Resources in Bemetara District

- Total Length of River (Shivnath& Other) = 31 KM
- Ponds & Reservoir –

Particular	Available		Fish Farming	
	Numbers	Area (Ha)	Numbers	Area (Ha)
Village Ponds	2530	6844	1619	2449.78
Irrigation Reservoir	115	1326	110	1230.97
TOTAL	2645	8170	1729	3680.75

- Average Fish Production in District – 29450 MT
- Fish Seed (Standard Fry) Production in Numbers : 362.11 Lath
(Contribution from Govt Sector – 82.11 Lath & Private Sector – 280 Lath)
- Village Pond allotment in Lease – 294.78 Ha
- Total No. of Fisheries Cooperative Society – 78 with 2541 Member

DetailsofOperationalarea/Villages(2023)

Sl. No.	Subject	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Fisheries	Bemetara	Bemetara	Jhal, Jhalam, Andhiyarkhor,	Fish	Higher production cost	Fish Feed Management
	Fisheries	Saja	Saja	Thelka	Fish	Low Fish Production	Fish Production Technology
	Fisheries	Berla	Berla	Chikhla	Fish	Low Fish Production	Fish Production Technology
2	Agricultural Engineering	Saja	Saja	Kandai	Paddy	Crop Residue Management	Use of Baler machine
	Agricultural Engineering	Saja	Saja	Mohuabhata	Paddy	Conventional Manually Transplanting	Use of Mechanical Transplanter
	Agricultural Engineering	Bemetara	Bemetara	Dholiya	Soybean	Conventional flat bed sowing	Sowing with Borad Bed Furrow Machine
3	Soil Science	Bemetara	Bemetara	Navagaov	Soybean	Integrated nutrient management	Balance use of fertilizer
	Soil Science	Saja	Saja	Matra	Rice	Foliar application of fertilizer	Use of Nano Urea
4	Plant Protection	Bemetara	Bemetara	Bitkuli	Soybean	Fungal wilt disease management	Use of Wilt bioagents like Trichoderma, Pseudomonas, Bacillus
	Plant Protection	Nandghat	Nawagarh	Bhopsara	Chickpea	Fungal wilt disease management	Use of Wilt bioagents like Trichoderma, Pseudomonas, Bacillus
5	Horticulture	Nawagarh	Nawagarh	Tendubhatha, Mouhabhatha	Coriander & Vegetables	Panicle mite, wilting, Pod borer, insect and disease in vegetable	Need chemical control, organic pesticide
	Horticulture	Bemetara	Bemetara	Mouhabhatha	Tomato	Wilting	Use of tricolorderma
	Horticulture	Bemetara	Bemetara	Bemetara	Vegetable seedling	Shortage of vegetable see	

Priority/Thrustareas

S. No.	Particulars
1.	Improved & high yielding varieties for rice, niger, sesamum, black gram, wheat, field pea & pigeon pea etc.
2.	Integrated Nutrient Management especially in potential crops i.e. Rice, Wheat, Maize, Mustard, Pigeon pea & field pea for increasing their productivity under acidic soils conditions.
3.	Integrated pest and disease management in cereals, pulse & oilseeds
4.	Integrated weed management in upland direct seeded rice, wheat, pulses, oil seeds, vegetables, maize and sugarcane
5.	Establishment of Integrated farming system model at marginal & small farmers for getting higher profitability & sustainability
6.	Development of fruit and vegetable based land use system for increasing cropping intensity and profitability.
7.	Nutritional security for tribal's
8.	Value addition for income and employment generation
9.	Natural farming/organic farming
10.	Vegetable seedling production

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
10	44	FLD -12 & CFLD -10	FLD 87 & CFLD 250

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
62	1715	188	4483

Seed Production (Qtl.)	Planting material (Nos.)
178	916500

Action Plan 2024

Name	Designation & Discipline	OFT	FLD	Farmer Training	In-service training
Shri Toshan Kumar Thakur	SMS (Fisheries)	2	2	12	1
Dr. Jitendra Kumar Joshi	SMS (FMPE)	2	4	14	2
Dr. Lav Kumar Sahu	SMS (Horticulture)	2	2	13	2
Dr. (Smt.) Tripti Thakur	SMS (Soil Science)	2	2	13	1
Dr. Akhilesh Kulmitra		2	2	10	1
TOTAL		10	12	62	7

B. Abstract to interventions to be undertaken

S. No.	Thrust area	Crop/Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Fisheries	Fish	High cost of fish production, Low fish production, Low yield from carp culture due to less growth during winter	Assessment of Pangasius Fish Farming in bio-floc fish tank	Demonstration on inclusion of exotic carp with IMC in composite fish farming system	Common Fish Disease Management	Common Fish Disease Management Water quality management of Fish Pond Natural Fish Food Management Fish Feed Management Technology Preparation of Farm Made Fish Feed Fish Seed Production in Seasonal Pond	06	
2	Fisheries	Fish	Low yield from carp culture due to less growth during winter	Assessment of growth promoter 'Raafres- AQ' in maximizing fish growth and yield during winter	Demonstration on Vitamin & Mineral Premix with Traditional Fish Feed for Increasing Fish Yield	Natural Fish Food Management	Composite Fish Farming Technology Advance Fish Production Technology Semi biofloc&Biofloc Fish Farming Community Fish Pond Management Integrated Fish Farming Technology Processing & Value addition of Fish	07	
3	Ag. Engg.	Paddy/Soybean	Risk on single crop due to weather effects.	Assessment of soybean-pigeonpea intercropping by using broadbed sowing machine on farmer's field	Demonstration on broad bed sowing method using of Indira soya seed drill for soybean crop Demonstration on four row paddy transplanter on farmer's field	Operational Procedure of Sowing machines	Integrated Sowing Practices for Intercropping Demonstration of Multicrop Planter machine Mat Type Nursery Preparation, Mechanical Transplanting of Rice by Mechanical Transplanter Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Entrepreneurial development of farmers/youths Capacity building for ICT application Farm machinery, tools and	15	

							implements		
4	Ag. Eng. g.	Mustard /Paddy	More seed rate in broadcasting, seed to seed distance is not maintained	Assessment of Multi-crop Inclined Plate Planter machine for sowing of Mustard crop on farmer's field	Demonstration on tractor operated round baler machine Demonstration of drone technology on farmer's field.	Uses and operational procedure of Baler machine under crop residue Management, hands on training on Drone Technology	Baler Machine Uses and Repair and Adjustment Inclined Plate Planter seed metering System Drone Demonstration Farm machinery & its maintenance Balance Use of fertilizer Processing and value addition Nursery Management Small scale processing and value addition Post Harvest Technology Formation and Management of SHGs	15	
5	Integrated Nutrient Management	Rice	Low productivity due to low nitrogen status in the Soil, low fertilizer use efficiency	Assessment of Foliar application of Nano Urea in Rice	Demonstration of Integrated nutrient management in Soybean.	Field preparation, sowing and fertilizer management of Kharif crops (b) Nursery management in Rice and DSR © Seed Treatment (d) Natural farming in Kodo	(a)Harvesting and storage of rabi crops and sowing of maize (b) Sugarcane cultivation © Natural farming d) Importance of millets (a)Soil sampling methods (b) Importance of deep summer ploughing (c) Irrigation Management in summer crops (d) Natural farming	13	
6	Integrated Nutrient Management	Chickpea	Yield loss due to imbalance use of fertilizer	Assessment of Integrated Nutrient Management in Chickpea	Demonstration of package of practices of natural farming in Chickpea		(a) Nutrient Management (b) Chickpea nutrient requirement (c) Indiscrimination use of chemical fertilizers impact on crop (d) Natural farming	13	
7	Natural Farming	Tomato	Soil deterioration due to excess use of chemicals	Assessment of Different tools of Natural Farming in Tomato in Bemetara District	Demonstration of propagation of ginger planting materials through pro-tray		Use of beejamrita in cucurbitaceous vegetable crops Curing process in turmeric rhizome	10	
8	Plant Pathology	Rice/soybean	Sheath blight of rice caused by Rhizoctonia solani is a potential threat to rice cultivation causing extensive damage to the crop in almost all the rice growing areas of India. Yield losses due to this disease are estimated to be ranging from 1.2-69.0%	Assessment of application of bio-agents for management of sheath blight in rice	Demonstration of fungal wilt management in Soybean through Trichoderma application		<i>Trichoderma harzianum</i> + <i>Pseudomonas fluorescens</i> Seed and <i>Trichoderma</i> Integrated Pest Management in major Rabi Crops Preparation of organic insecticides Use of beejamrita in cucurbitaceous vegetable crops Integrated Pest Management in major horticulture Crops	10	
9	Plant Pathology	Rice/Chickpea	Low yield due to Blast disease affecting crop yield from 20 to	Assessment of Blast disease management in Rice	Demonstration of efficacy of bio-agents for wilt disease management in		<i>Integrated Pest Management in major kharif Crops</i> <i>Integrated Pest Management in major horticulture Crops</i>	10	

	y		80%		chickpea		<i>Preparation of organic insecticides Multiplication of Trichoderma</i>		
10	Varietal Assessment	Tomato	Use local seed of tomato (Local collection)	Varietal assessment of Tomato (Kashi Aman) in Bemetara District	Demonstration of propagation of ginger planting materials through pro-tray		Preparation and use of beejamrita and jeevamrita in Kharif horticultural crops	12	
11	Varietal Assessment	Coriander	Low yield of local varieties/ Local collection	Varietal assessment of Coriander (Chhattisgarh Dhania -1) in Bemetara District	Demonstration of propagation of turmeric planting materials through pro-tray		Preparation and use of beejamrita and jeevamrita in Rabi horticultural crops	12	

Technologies to be assessed

A. Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Plant Protection	2	1	1	-	1	-	-	-	-	4
INM	1	1	2	-	-	-	-	-	-	4
Horticulture	-	-	-	-	2	-	-	-	2	4
Agril. Engineering	2	1	2	-	-	-	-	-	-	5
TOTAL	4	4	7	-	8	-	-	-	-	17

Thematic areas	Cattle	Poultry	Buffalo	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Bemetara	115380	-	16021	2082	38326	835	-	4	4
Berla	105873		17046	4900	20712	219	-		
Nawagarh	90826		10811	1280	19673	162	-		
Saja	105858		10835	683	23378	533	-		
TOTAL	417937	-	54713	8945	102089	1749	-	4	4

Details of On Farm Trial (OFT)

OFT 1: Assessment of Pangasius Fish Farming in bio-floc fish tank	
Crop/Enterprise	Fish
Problem diagnosed	Hi cost of fish production, Low fish productivity
Farming situation	Small to medium tank
Production system and thematic area	Super Intensive Fish Production Technology
Farmers' practices	Pangasius Fish Farming in Fish Pond
Details of technologies selected for assessment/refinement Treatments	T1 – Stoking Density of Pangasius Fish Seed (Fingerlings) @ 5 Nos/M3 (Farmer practice) T2 - Stoking Density of Pangasius Fish Seed (100g) @ 25 Nos./M3, T3 - @ 70 Nos./M3 (Research Practice)
Source of technology	IGKV, KVK, Raipur
No. of farmers	04
Area of each trial	1 tank
No of trial	04
Critical input	Fish Seed/Probiotics/Molases

Performance indicators Observation to be recorded	Yield, ABW, Survival, FCR, B:C ratio
Cost of input	Rs. 5000/- Per trial (Approx.)
Total cost	Rs. 20000/-

OFT 2 :Assessment of growth promoter in maximizing fish growth and yield during winter

Crop/Enterprise	Fish
Problem diagnosed	Low yield from carp culture due to less growth during winter
Farming situation	Small to Medium pond
Production system and thematic area	Fish Production & Fish Pond Management
Farmers' practices	Application of traditional feed only for fish body growth
Details of technologies selected for assessment/refinement Treatments	T1: No use of growth promoter in fish feed (Farmer Practice) T2 : Use of Growth promoter (Raafres AQ @500g/1ton of feed as feed additive)
Source of technology	CIFE, Mumbai (2000), Fishery Technology, Vol. 47, No (2) : 2010
No. of farmers	04
Area of each trial	0.2 ha
No of trial	04
Critical input	Growth promoter
Performance indicators Observation to be recorded	ABW, FCR, Yield, B:C ratio
Cost of input	Rs. 4000/- per trial (Approx.)
Total cost	Rs. 16000/-

OFT 3 :Assessment of Sowing Method of Mustard by Multi-crop Inclined Plate Planter

Crop/Enterprise	Mustard crop
Problem diagnosed	More seed rate in broadcasting, seed to seed distance is not maintained.
Farming situation	Irrigated
Production system and thematic area	Use of Improved farm Implements
Farmers' practices	Broadcasting
Details of technologies selected for assessment/refinement Treatments	T1 Broadcasting sowing T2 multi-crop inclined plate planter machine T3 SCFD sowing
Source of technology	IGKV Raipur
No. of farmers	5
Area of each trial	1 acre
No of trial	5
Critical input	Multi-crop Inclined Plate Planter machine
Performance indicators Observation to be recorded	Field capacity (ha/h) , fuel consumption (l/ha), cost economic field efficiency %, crop yield (kg/ha)
Cost of input, Rs	Rs. 800/- Per trial
Total cost, Rs	Rs. 4000/-

OFT 4 :Assessment of soybean-pigeonpea intercropping by using broadbed sowing machine

Crop/Enterprise	Soybean-pigeonpea
Problem diagnosed	Risk of failure of single crop due to weather effects.
Farming situation	Rainfed
Production system and thematic area	Agricultural Engineering /Farm Mechanization
Farmers' practices	Line sowing of soybean by Seed drill
Details of technologies selected for assessment/refinement Treatments	T1 flat bed line sowing T2 Broadbed sowing only soybean T3 soybean-Pigeonpea Intercropping Sowing

Source of technology	IGKV Raipur
No. of farmers	5
Area of each trial	1 acre
No of trial	5
Critical input	Soybean-pigeonpea intercropping broadbed sowing machine
Performance indicators	Plant mortality %, Field capacity (ha/h) , fuel consumption (l/ha), cost
Observation to be recorded	economic field efficiency %, crop yield (kg/ha)
Cost of input, Rs	Rs. 800/- Per Trial
Total cost, Rs	Rs. 4000/-

OFT 5 : Assessment of Rice Productivity by foliar spray of Nano Urea

Crop/Enterprise	Rice
Problem diagnosed	Low productivity due to low nitrogen status in the Soil, low fertilizer use efficiency
Production system and thematic area	Nutrient management through foliar application
Farmers' practices	Imbalance use of fertilizer, Dose (75:46:00) NPK kg/ha, no use of foliar spray
Details of technologies selected for assessment/refinement Treatments	T1- Imbalance fertilizer application (farmer practice) T2- 1 st Spray as foliar application of Nano urea @4 ml/litre of water after 30-35 DAS/DAT and 2 nd Spray at 50-55 DAS/DAT
Source of technology	SG CARS, Jagdalpur
No. of farmers	4
Area of each trial	0.2 ha
No of trial	4
Critical input	Seed, Nano urea liquid fertilizer
Performance indicators	No. of tillers/plant, Yield (q/h) & B:C ratio
Cost of input	Rs. 880/- (Seed - 400/-, Nano urea liquid fertilizer- 480/-) Per trial
Total cost	Rs. 3520/-

OFT 6 : Assessment of Integrated Nutrient Management in Chickpea

Crop/Enterprise	Chickpea
Problem diagnosed	Yield loss due to imbalance use of fertilizer
Production system and thematic area	Integrated nutrient management
Farmers' practices	DAP- 80 kg and Urea- 50 kg.
Details of technologies selected for assessment/refinement Treatments	T1 :DAP- 80 kg and Urea- 50 kg. (Farmer Practice) T2 :Soil test value (N:P:K)+ seed treatment Rizobium+ PSB @10 gm./kg. of seed T3 :75% RDF (NPK 20:40:20) + seed treatment Rizobium+PSB @10 gm/kg. of seed
Source of technology	IGKV, Raipur
No. of farmers	4
Area of each trial	0.40 ha
No of trial	4
Critical input	Fertilizer, Bio-fertilizer
Performance indicators	No. of pod/plant, Yield q/ha, B:C ratio
Cost of input	Rs. 2000/- Per trial
Total cost	Rs. 8000/-

OFT 7: Assessment of sheath blight management in rice through bio-agents

Crop/Enterprise	Rice
Problem diagnosed	Sheath blight of rice caused by <i>Rhizoctonia solani</i> is a potential threat

	to rice cultivation causing extensive damage to the crop in almost all the rice growing areas of India. Yield losses due to this disease are estimated to be ranging from 1.2-69.0%
Farmingsituation	Rainfed (Kharif -2024)
Production system and thematicarea	Integrated Disease Management
Farmers'practices	(T1) Mixed formulation and injudicious useof chemical fungicides.
Details of technologies selected forassessment/refinementTreatments	T2 - Soil application of <i>Trichoderma harzianum</i> + <i>Pseudomonas fluorescens</i> + FYM T3 - Soil application of <i>Trichoderma harzianum</i> + <i>Pseudomonas fluorescens</i> + FYM followed by foliar spray of ZnSO4 + Lime at Maximum Tillering Stage
Sourceoftechnology	Prasad, Durga and Singh, Ramji (2018). Management of sheath blight of rice through integrated application of bio-agents, organic amendments and resistance inducing chemicals. <i>Internat. J. Plant Sci.</i> , 13 (1): 42-46
No.offarmers	05
Area of each trial	0.4 ha
No of trial	05
Criticalinput	<i>Trichoderma harzianum</i> + <i>Pseudomonas fluorescens</i>
Performance indicatorsObservationtoberecorded	Per cent disease index (PDI), Per cent yield increase, B:C ratio
Costofinput	Rs, 3000/- Per trial
Totalcost	Rs. 15000/-

OFT 8 :Assessment of Blast disease management in Rice through Bio-agent

Crop / Enterprise	Rice
Problem diagnosed	Low yield due to Blast disease affecting crop yield from 20 to 80%
Farming situation	Rainfed/irrigated
Production system and thematic area	Disease management
Farmers' practices	(T1) Use of Fungicide - Tebuconazole 50%+Trifloxystorbin 25% @ 1g/lit of water
Details of technology selected for assessment/refinement Treatments	(T2) Seed treatment by Trichoderma @ 4g/kg seed
Source of technology	IGKV, Raipur
No. of farmers	05
Area of each trial	0.4 ha
No of trial	05
Critical input	Trichoderma
Performance indicators Observation to be recorded	Disease severity, Yield (q/ha), B:C ratio
Cost of input	Rs.1000/- Per trial
Total Cost	Rs. 5000/-

OFT 9 :Varietal assessment of Shri ChandrahasiniChhattisgarh Dhania -2 in Bemetara District

Crop/Enterprise	Coriander
Problem diagnosed	Low yield of local/Desi/Unlown varieties, area covered >1200ha
Farmingsituation	Rabi (Irrigated)
Production system and thematicarea	Varietal evaluation
Farmers'practices	Use of local variety
Details of technologies selected forassessment/refinementTreatments	T1 – Farmer Practice, Use of Desi variety, Potential yield 7-8 qtl./ha, Duration 115-120 day T2 – Use of High yielding variety Shri Chandrahasini Chhattisgarh Dhania -2 Duration – 110 day, Potential yield 12-15 qtl./ha

Source of technology	IGKV, Raipur (C.G.)
No. of farmers	04
Area of each trial	0.4 ha
No. of trial	04
No. of animals (if animals are part of OFT)	-
Critical input	Coriander ((Shri Chandrahasini Chhattisgarh Dhania -2) seed
Performance indicators Observation to be recorded	1. Yield (q/ha), 2. B: C ratio
Cost of input	Rs. 1000/- per trial. (Approx.)

OFT 10 : Varietal assessment of Kashi Aman (Tomato) in Bemetara District	
Crop/ Enterprise	Tomato (Kashi Aman)
Problem diagnosed	Low yield of old varieties, Area covered >1000 ha
Farming situation	Kharif (Rainfed/Irrigated)
Production system and thematic area	Varietal evaluation
Farmers' practices	Use Local seed of tomato (Local collection)
Details of technologies selected for assessment/refinement Treatments	T1 – Farmer Practice (Use of old variety – Pusa rubi (Notified in year 1985), Potential yield 300-350 qtl./ha T2 - Use of High yielding variety - Kashi Aman (Notified in 2018) Potential yield 500-600 qtl./ha
Source of technology	Indian Institute of Vegetable Research (IIVR), Varanasi
No. of farmers	04
Area of each trial	0.4 ha
No. of trial	04
No. of animals (if animals are part of OFT)	-
Critical input	Tomato (Kashi Aman) seed
Performance indicators Observation to be recorded	1. Yield (q/ha), 2. B: C ratio
Cost of input	Rs. 1000/- per trial. (Approx.)

Detailed Information about OFT: 1-10

OFT-1

Name of Discipline	Shri Toshan Kumar Thakur (Fisheries)
Title of on-farm trial:	Assessment of Pangasius Fish Farming in bio-floc fish tank
Year/Season:	2024-25
Farming situation:	Small to medium tank
Problem diagnosis:	Hi cost of fish production, Low fish productivity
Thematic area:	Intensive Fish Production Technology
No. of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 – Stoking Density of Pangasius Fish Seed (Fingerlings) @ 5 Nos/M3 (Farmer practice)
T2 – Recommended Practice-	T2 - Stoking Density of Pangasius Fish Seed (100g) @ 25 Nos./M3, T3 - @ 70 Nos./M3 (Research Practice)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, KVK, Raipur
Characteristics of technology:	-

Name of Crop/Enterprises:	Fish
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-2

Name of Discipline	Shri Toshan Kumar Thakur (Fisheries)
Title of on-farm trial:	Assessment of growth promoter in maximizing fish growth and yield during winter
Year/Season:	2024-25
Farming situation:	Small to Medium pond
Problem diagnosis:	Low yield from carp culture due to less growth during winter
Thematic area:	Fish Production & Fish Pond Management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: No use of growth promoter in fish feed (Farmer Practice)
T2 –Recommended Practice-	T2 : Use of Growth promoter (Raafres AQ @500g/1ton of feed as feed additive
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CIFE, Mumbai (2000), Fishery Technology, Vol. 47, No (2) : 2010
Characteristics of technology:	-
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-3

Name of Discipline	Dr. Jitendra Kumar Joshi (Agricultural Engineering)
Title of on-farm trial:	Assessment of Sowing Method of Mustard by Multi-crop Inclined Plate Planter
Year/Season:	2024-25
Farming situation:	Irrigated
Problem diagnosis:	More seed rate in broadcasting, seed to seed distance is not maintained.
Thematic area:	
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 Broadcasting sowing
T2 –Recommended Practice-	T2 multi-crop inclined plate planter machine
T3- Recommended Practice-	T3 SCFD sowing
Date of sowing:	-

Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Mustard crop
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-4

Name of Discipline	Dr. Jitendra Kumar Joshi (Agricultural Engineering)
Title of on-farm trial:	Assessment of soybean-pigeonpea intercropping by using broadbed sowing machine
Year/Season:	2024-25
Farming situation:	Rainfed
Problem diagnosis:	Risk of failure of single crop due to weather effects.
Thematic area:	
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 flat bed line sowing
T2 –Recommended Practice-	T2 Broadbed sowing only soybean
T3- Recommended Practice-	T3 soybean-Pigeonpea Intercropping Sowing
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Soybean-pigeonpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-5

Name of Discipline	Dr. Tripti Thakur (Soil Science)
Title of on-farm trial:	Assessment of Rice Productivity by foliar spray of Nano Urea
Year/Season:	2024-25
Farming situation:	
Problem diagnosis:	Low productivity due to low nitrogen status in the Soil, low fertilizer use efficiency
Thematic area:	Nutrient management through foliar application
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement	
T1 – Farmers Practice-	T1- Imbalance fertilizer application (farmer practice)
T2 –Recommended Practice-	T2- 1 st Spray as foliar application of Nano urea @4

	ml/litre of water after 30-35 DAS/DAT and 2 nd Spray at 50-55 DAS/DAT
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	SG CARS, Jagdalpur
Characteristics of technology:	-
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-6

Name of Discipline	Dr. Tripti Thakur (Soil Science)
Title of on-farm trial:	Assessment of Integrated Nutrient Management in Chickpea
Year/Season:	2024-25
Farming situation:	Rainfed
Problem diagnosis:	Yield loss due to imbalance use of fertilizer
Thematic area:	Integrated nutrient management
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement	
T1 – Farmers Practice-	T1 :DAP- 80 kg and Urea- 50 kg. (Farmer Practice)
T2 –Recommended Practice-	T2 :Soil test value (N:P:K)+ seed treatment Rizobium+ PSB @10 gm./kg. of seed
T3- Recommended Practice-	T3 :75% RDF (NPK 20:40:20) + seed treatment Rizobium+PSB @10 gm/kg. of seed
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-7

Name of Discipline	Dr. Akhilesh Kulmitra (Plant Pathology)
Title of on-farm trial:	Assessment of sheath blight management in rice through bio-agents
Year/Season:	2024-25
Farming situation:	Rainfed (Kharif -2024)
Problem diagnosis:	Sheath blight of rice caused by <i>Rhizoctonia solani</i> is a potential threat to rice cultivation causing extensive damage to the crop in almost all the rice growing areas of India. Yield losses due to this disease are estimated to

	be ranging from 1.2-69.0%
Thematic area:	Integrated Disease Management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement	
T1 – Farmers Practice-	(T1) Mixed formulation and injudicious useof chemical fungicides.
T2 –Recommended Practice-	T2 - Soil application of <i>Trichoderma harzianum</i> + <i>Pseudomonas fluorescens</i> + FYM
T3- Recommended Practice-	T3 - Soil application of <i>Trichoderma harzianum</i> + <i>Pseudomonas fluorescens</i> + FYM followed by foliar spray of ZnSO4 + Lime at Maximum Tillering Stage
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-8

Name of Discipline	Dr. Akhilesh Kulmitra (Plant Pathology)
Title of on-farm trial:	Assessment of Blast disease management in Rice through Bio-agent
Year/Season:	2024-25
Farming situation:	Rainfed/irrigated
Problem diagnosis:	Low yield due to Blast disease affecting crop yield from 20 to 80%
Thematic area:	Disease management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement	
T1 – Farmers Practice-	(T1) Use of Fungicide - Tebuconazole 50%+Trifloxystorbin 25% @ 1g/lit of water
T2 –Recommended Practice-	(T2) Seed treatment by Trichoderma @ 4g/kg seed
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-9

Name of Discipline	Dr. Luv Kumar (Horticulture)
Title of on-farm trial:	Varietal assessment of Shri Chandrahasini Chhattisgarh Dhania -2 in Bemetara District
Year/Season:	2024-25
Farming situation:	Rabi (Irrigated)
Problem diagnosis:	Low yield of local/Desi/Unlown varieties, area covered >1200ha
Thematic area:	Varietal evaluation
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement	
T1 – Farmers Practice-	T1 – Farmer Practice, Use of Desi variety, Potential yield 7-8 qtl./ha, Duration 115-120 day
T2 –Recommended Practice-	T2 – Use of High yielding variety Shri Chandrahasini Chhattisgarh Dhania -2
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-10

Name of Discipline	Dr. Luv Kumar (Horticulture)
Title of on-farm trial:	Varietal assessment of Kashi Aman (Tomato) in Bemetara District
Year/Season:	2024-25
Farming situation:	Kharif (Rainfed/Irrigated)
Problem diagnosis:	Low yield of old varieties, Area covered >1000 ha
Thematic area:	Varietal evaluation
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement	
T1 – Farmers Practice-	T1 – Farmer Practice (Use of old variety – Pusa rubi (Notified in year 1985), Potential yield 300-350 qtl./ha
T2 –Recommended Practice-	T2 - Use of High yielding variety - Kashi Aman (Notified in 2018) Potential yield 500-600qtl./ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Tomato (Kashi Aman)

Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

FLD 1-12

FLD 1 :Demonstration on inclusion of exotic carp in composite fish farming system	
Crop / Enterprize	Fish
Thematic area	Fish Production
Technology for demonstration	Composite fish farming
Critical inputs	Fish Seed
Season and year	2024-25
Area (ha)	2 ha
No. of farmers/ demonstration	05
Data on parameter in relation to technology demonstrated	Demonstration : Culture Exotic carp with IMC with 40:30:30 ratio of SF, CF & BF Fish)
	Local Check/ Farmer Practice: Culture IMC only in composite fish farming in irregular ratio.
Parameters identified	ABW, Yield, B:C ratio
Cost of input	Rs. 5000/- Per Trial (Approx.)
Total cost	Rs. 25000/-
Extension and Training activities under FLDs	02

FLD 2 :Demonstration on Traditional Fish Feed with Vitamin & Mineral Premix for Increasing Fish Yield	
Crop/Enterprize	Fish
Thematic area	Fish Pond Management
Technology for demonstration	Fish feed Management
Critical inputs	Vitamin and Mineral Premix
Season and year	2023-24
Area (ha)	2 ha
No. of farmers/ demonstration	05
Data on parameter in relation to technology demonstrated	Demonstration : Feeding fish feed mix with vitamin mineral mix @ 0. 1% /kg Fish Feed
	Local Check/ Farmer Practice: Use of conventional fish feed only
Parameters identified	ABW, Yield, B:C ratio
Cost of input	Rs. 2000/- Per demo. (Approx.)
Total cost	Rs. 10000/-
Extension and Training activities under FLDs	02

FLD 3 : Demonstration on four row paddy transplanter on farmer's field.	
Crop	Rice
Thematic area	Farm Mechanization
Problem Diagnose	labour shortage, and high initial cost incurred in manual transplanting
Technology for demonstration	Resources conservation technology
Critical inputs	Four row paddy transplanter
Season and year	Kharif season, 2024
Area (ha)	4
No. of farmers/ demonstration	6

Data on parameter in relation to technology demonstrated	Demonstration (T1): Transplanting by Four row paddy transplanter machine
	Local Check/ Farmer Practice (T2): Manual Transplanting
Parameters identified	Field capacity, field efficiency%, Missing Hills, fuel consumption, cost economic, Crop yield (kg/ha)
Cost of input, Rs/acre	800/-
Total cost, Rs	8000/-
Extension and Training activities under FLDs	Role of farm mechanization in Paddy Cultivation Mahindra Four row paddy transplanter machine setting and adjustment

FLD 4 :Demonstration on broad bed sowing method using of Indira soya seed drill for soybean crop	
Crop	Soybean
Thematic area	Farm Mechanization
Technology for demonstration	Resources Conservation Technology
Critical inputs	Indira soya seed drill machine
Season and year	<i>Kharif</i> season, 2024
Area (ha)	4
No. of farmers/ demonstration	7
Data on parameter in relation to technology demonstrated	Demonstration (T1): Broad bed sowing using of Indira soya seed drill
	Local Check/ Farmer Practice (T2): Flat bed line sowing
Parameters identified	Plant mortality %, Field capacity, Fuel consumption, Cost economic, Field efficiency %, Crop yield
Cost of input, Rs/acre	700/-
Total cost, Rs	7000/-
Extension and Training activities under FLDs	Broadbed sowing method for reducing the mortality of crop due to heavy rainfall Indira soya seed drill machine setting and adjustment.

FLD 5 :Demonstration on tractor operated round baler machine	
Crop	Paddy
Thematic area	Agricultural Engineering
Technology for demonstration	Paddy Straw Management
Critical inputs	Tractor operated round baler machine
Season and year	<i>Rabi</i> season, 2024-25
Area (ha)	4
No. of farmers/ demonstration	8
Data on parameter in relation to technology demonstrated	Demonstration (T1): Bale making through Tractor operated Baler machine
	Local Check/ Farmer Practice (T2): Burn/Manually lifting
Parameters identified	Field capacity, field efficiency, bale output (kg/h), bale weight (kg), time required (h/ha), fuel consumption lit/h, cost of cultivation Rs/ha, straw recovery (%) , labour requirement (man-h/ha)
Cost of input, Rs/acre	700/-
Total cost, Rs/-	7000/-
Extension and Training activities under FLDs	Paddy straw management techniques, Tractor operated round baler machine setting and adjustment.

FLD 6 :Demonstration of drone technology on farmer's field.	
Crop	Chickpea
Thematic area	Precision Agriculture

Technology for demonstration	Resources conservation technology
Critical inputs	Drone machine
Season and year	Rabi season, 2024-25
Area (ha)	4
No. of farmers/ demonstration	6
Data on parameter in relation to technology demonstrated	Demonstration (T1) :Spraying by Drone Local Check/ Farmer Practice (T2): Knapsack spraying manually
Parameters identified	Field capacity (ha/hr),Spraying efficiency (%), field efficiency (%), labour cost, cost economic, Grain yield (q/ha), B:C ratio
Cost of input, Rs/acre	600/-
Total cost, Rs	6000/-
Extension and Training activities under FLDs	02

FLD 7 :Demonstration on Integrated nutrient management in Soybean.

Crop	Soybean
Thematic area	Integrated Nutrient management
Technology for demonstration	Demonstration of Integrated nutrient management of Soybean.
Critical inputs	Bio-fertilizer
Season and year	Kharif 2024-25
Area (ha)	4
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Farmer Practice: DAP- 50 kg, Urea- 50 kg, Potash- 0 kg Demonstration- (NPK)+ vermi-compost (20q/ha) + seed treatment Rhizobium@10 gm./kg. of seed
Parameters identified	Yield q/ha, B:C Ratio
Cost of input	Rs. 1200/- Per demo.
Total cost	Rs. 12000/-
Extension and Training activities under FLDs	02

FLD 8 :Demonstration of Chickpea under natural farming

Crop	Chickpea
Thematic area	Natural Farming
Technology for demonstration	Demonstration of package of practices of natural farming in Chickpea
Critical inputs	Different ingredients use in natural farming (cow urine, cow dung, jaggery etc.)
Season and year	Rabi 2024-25
Area (ha)	4
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration- 1.Seed treatment with Bijamreet2.Ghanjeevamrit@250kg/ha. at sowing time 3.Jivamreet at irrigation time or spraying of jivamreet @ 500 ltr/ ha 4. Mulching of crop residues & foliar spray of Nimastra&Bramhastra Local Check/ Farmer Practice: Broadcast of Chickpea & imbalance use of fertilizer
Parameters identified	No. of pod / plant, no. of branch /plant, Yield, BC ratio
Cost of input	Rs. 1500/- Per demo
Total cost	Rs. 15000/-
Extension and Training activities under FLDs	training, group meeting, awareness programme, field day

FLD 9 :Demonstration on wilt disease management in chickpea through bio-agents	
Crop	Chickpea
Thematic area	Plant protection
Technology for demonstration	Seed treated with <i>Trichoderma harzianum</i> @ 5g/kg seed + <i>Pseudomonas fluorescens</i> @ 5 g/kg seed + <i>Bacillus subtilis</i> @5g/kg seed.
Critical inputs	<i>Trichoderma harzianum</i> + <i>Pseudomonas fluorescens</i> + <i>Bacillus subtilis</i>
Season and year	Rabi 2024-25
Area (ha)	4
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration - Seed treated with <i>Trichoderma harzianum</i> @ 5g/kg seed + <i>Pseudomonas fluorescens</i> @ 5 g/kg seed + <i>Bacillus subtilis</i> @5g/kg seed.
	Local Check/ Farmer Practice: - No seed treatment through any bioagents.
Parameters identified	Disease Incidence (%), Per cent yield increase
Cost of input	Rs.1000/- Per demo.
Total cost	Rs.10000/-
Extension and Training activities under FLDs	02

FLD 10 :Demonstration of fungal wilt management in Soybean through <i>Trichoderma</i> application	
Crop	Soybean
Thematic area	Crop Protection
Technology for demonstration	Demonstration of fungal wilt management in Soybean through <i>Trichoderma</i> application
Critical inputs	Seed and <i>Trichoderma</i>
Season and year	Kharif Season 2024
Area (ha)	4
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration: Seed treatment by <i>Trichoderma</i> @5gm/kg seed and soil treatment along with FYM @250 kg/ha+1 kg <i>Trichoderma</i>
	Local Check/ Farmer Practice: - No Seed treatment
Parameters identified	1. Yield (q/ha) 2. B:C Ratio
Cost of input	Rs. 1000/- Per demo
Total cost	Rs. 10000/-
Extension and Training activities under FLDs	02

FLD 11 :Demonstration of propagation of ginger planting materials through pro-tray	
Crop	Ginger
Thematic area	Crop Production
Technology for demonstration	Raising of ginger seedlings in protray methods
Critical inputs	Seedlings
Season and year	Kharif 2024
Area (ha)	02
No. of farmers/ demonstration	05
Data on parameter in relation to technology demonstrated	Demonstration: Ginger bud sprouts in protray with nursery medium cocopeat & vermicompost (3:1) Seed rhizomes are cut into single buds with small piece of rhizomes weight 6-8 gm.

	- Treatment of bud sprouts (mancozeb @0.3%) for 30 min before planting - Seedling will be ready within 30-40 days for planting
	Local Check/ Farmer Practice: Conventional planting
Parameters identified	1. No. of Rhizome / plant , 2. Weight (gm./plant), 3. Yield (qt./ha) 4. B:C ratio
Cost of input	Rs. 500/- Per Demo. (Approx.)
Total cost	Rs. 2500/-
Extension and Training activities under FLDs	02

FLD 12 :Demonstration of propagation of turmeric planting materials through pro-tray	
Crop	Turmeric
Thematic area	Crop Production
Technology for demonstration	Raising of turmeric seedlings in protray methods
Critical inputs	Seedlings
Season and year	Kharif 2024
Area (ha)	02
No. of farmers/ demonstration	05
Data on parameter in relation to technology demonstrated	Demonstration: Turmeric bud sprouts in protray with nursery medium cocopeat & vermicompost (3:1) - Seed rhizomes are cut into single buds with small piece of rhizomes weight 6-8 gm. - Treatment of bud sprouts (mancozeb @0.3%) for 30 min before planting - Seedling will be ready within 30-40 days for planting
	Local Check/ Farmer Practice: Conventional planting
Parameters identified	1. No. of Rhizome / plant , 2. Weight (gm./plant), 3. Yield (qt./ha) 4. B:C ratio
Cost of input	Rs. 500/- Per Demo. (Approx.)
Total cost	Rs. 2500/-
Extension and Training activities under FLDs	02

Information about Extension OFT: **Nil**

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT: **Nil**

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and 26ortra smart initiatives)	
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	

Frontline Demonstrations

DetailsofFLDstobeorganized(Basedonsoiltestanalysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Fish	Fish Production	Composite fish farming	Fish Seed	2024-25	2	05	ABW, Yield, B:C ratio
2	Fish	Fish Pond Management	Fish feed Management	Vitamin and Mineral Premix	2024-25	2	05	ABW, Yield, B:C ratio
3.	Rice	Farm Mechanization	Resources conservation technology	Four row paddy transplanter	Kharif season, 2024	4	06	Field capacity, field efficiency%, Missing Hills, fuel consumption, cost economic, Crop yield (kg/ha)
4.	Soybean	Farm Mechanization	Resources Conservation Technology	Indira soya seed drill machine	Kharif season, 2024	4	07	Plant mortality %, Field capacity, Fuel consumption, Cost economic, Field efficiency %, Crop yield
5.	Paddy	Agricultural Engineering	Paddy Straw Management	Tractor operated round baler machine	Rabi season, 2024-25	4	08	Field capacity, field efficiency, bale output (kg/h), bale weight (kg), time required (h/ha), fuel consumption lit/h, cost of cultivation Rs/ha, straw recovery (%) , labour requirement (man-h/ha)
6.	Chickpea	Precision Agriculture	Resources conservation technology	Drone machine	Rabi season, 2024-25	4	06	Field capacity (ha/hr), Spraying efficiency (%), field efficiency (%), labour cost, cost economic, Grain yield (q/ha), B:C ratio
7.	Soybean	Integrated Nutrient management	Demonstration of Integrated nutrient management of Soybean	Bio-fertilizer	Kharif 2024-25	4	10	Yield q/ha, B:C Ratio
8.	Chickpea	Natural Farming	Demonstration of package of practices of natural farming in Chickpea	Different ingredients use in natural farming (cow urine, cow dung, jaggery etc.)	Rabi season, 2024-25	4	10	No. of pod / plant, no. of branch /plant, Yield, BC ratio
9.	Chickpea	Plant protection	Seed treated with <i>Trichoderma harzianum</i> @ 5g/kg seed + <i>Pseudomonas</i>	<i>Trichoderma harzianum</i> + <i>Pseudomonas fluorescens</i> + <i>Bacillus subtilis</i>	Rabi season, 2024-25	4	10	Disease Incidence (%), Per cent yield increase

			<i>fluorescens @ 5 g/kg seed + Bacillus subtilis @5g/kg seed.</i>					
10.	Soybean	Crop Protection	Demonstration of fungal wilt management in Soybean through <i>Trichoderma</i> application	Seed and Trichoderma	Kharif Season 2024	4	10	1. Yield (q/ha) 2. B:C Ratio
11.	Ginger	Crop Production	Raising of ginger seedlings in protray methods	Seedlings	Kharif 2024	2	5	1. No. of Rhizome / plant , 2. Weight (gm./plant), 3. Yield (qt./ha) 4. B:C ratio
12.	Turmeric	Crop Production	Raising of turmeric seedlings in protray methods	Seedlings	Kharif 2024	2	5	1. No. of Rhizome / plant , 2. Weight (gm./plant), 3. Yield (qt./ha) 4. B:C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of Activities	Month	Number of participants
1	Field Days	8	July, September, November, December	140
2	Farmers Training	12	January to December	340
3	Media coverage	5	July, November, January	100
4	Training for extension functionaries	6	July, September, November, December	150

Detail of FLD on Enterprises

Farm Implements:

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Multicrop Inclined plate planter	Mustard, Chickpea	2024	10	8	Inclined plate planter machine	Field capacity, field efficiency%, Missing Hills, fuel consumption, cost economic, Crop yield (kg/ha)	1	Seed cum fertilizer drill
Baler Machine	Paddy straw	2024	4	4	Baler Machine	Field capacity, field efficiency, bale output (kg/h), bale weight (kg), time required (h/ha), fuel consumption lit/h, cost of cultivation Rs/ha, straw recovery (%) , labour requirement (man-h/ha)	1	Manually lifting of straw
Paddy mechanical transplanter	Paddy	2024	5	4	Four Row Paddy Transplanter	Field capacity, field efficiency%, Missing Hills, fuel consumption, cost economic, Crop yield (kg/ha)	1	Manually Transplanting

*Field efficiency, labour saving etc.

Livestock Enterprises- Nil

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

*Milkproduction,meatproduction,eggproduction,reductionindiseaseincidenceetc.

OtherEnterprises- Nil

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

ExtensionandTrainingactivitiesunderCFLDsOilseedandPulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	June, July, August, September, November, January	280
2	Farmers Training	20	June, July, August, September, November, January	460
3	Media coverage	6	June, July, August, September, November	180
4	Training for extension functionaries	4	July, December	80

Extension Activities & Awareness programmes to be conducted by KVK in 2024

Details of Extension Activity	No. of Activities	Expected No of farmers	Expected No of extension functionaries
Scientist visit to farmer's field	10	20	04
Diagnostic visit to farmer's field	24	76	30
Method demonstration	04	10	04
Exposure visit	02	14	02
SHG's convener meeting	02	250	02
Field visit of farmer's field under CFLD, OFT and FLD	16	200	16
Exhibitions and Kisan mela	2	500	2
Field day	16	200	16
Technology Week Celebration	2	50	2
Lectures delivered as resource persons	20	500	20
Awareness Programme	20	450	50
Radio talk	5	100	15
Workshop	16	200	16
Method Demonstrations	2	50	2
Newspaper coverage	20	500	20
Popular articles	2	500	2
Film show	20	500	50
Special day celebration	5	100	10

Trainings Programmes to be conducted in Year 2024

SN	Thematic Area	Month	Duration in days	Expected No. of Participants									
				General			SC			ST			Grand Total
				Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Common Fish Disease Management	Jan	1	05	03	08	10	04	14	02	01	03	25
2	Water quality management of Fish Pond	Feb	1	05	03	08	10	04	14	02	01	03	25
3	Natural Fish Food Management	March	1	05	03	08	10	04	14	02	01	03	25
4	Fish Feed Management Technology	April	1	05	03	08	10	04	14	02	01	03	25
5	Preparation of Farm Made Fish Feed	May	1	05	03	08	10	04	14	02	01	03	25
6	Fish Seed Production in Seasonal Pond	June	1	05	03	08	10	04	14	02	01	03	25
7	Composite Fish Farming Technology	July	1	05	03	08	10	04	14	02	01	03	25
8	Advance Fish Production Technology	Aug	1	05	03	08	10	04	14	02	01	03	25
9	Semi biofloc&Biofloc Fish Farming	Sept	1	05	03	08	10	04	14	02	01	03	25
10	Community Fish Pond management	Oct	1	05	03	08	10	04	14	02	01	03	25
11	Integrated Fish Farming Technology	Nov	1	05	03	08	10	04	14	02	01	03	25
12	Processing & Value addition of Fish	Dec	1	05	03	08	10	04	14	02	01	03	25
13	Farm machinery & its maintenance	January	1	10	2	12	4	2	6	1	1	2	20
14	Balance Use of fertilizer	May	1	10	2	12	4	2	6	1	1	2	20
15	Processing and value addition	February	1	20	4	24	8	4	12	2	2	4	40
16	Nursery Management	August	1	10	2	12	4	2	6	1	1	2	20
17	Installation and maintenance of micro irrigation systems	October	1	20	4	24	8	4	12	2	2	4	40
18	Use of Plastics in farming practices	September	1	10	2	12	4	2	6	1	1	2	20
19	Production of small tools and implements	December	1	20	4	24	8	4	12	2	2	4	40
20	Repair and maintenance of farm machinery and implements	April	1	20	4	24	8	4	12	2	2	4	40
21	Small scale processing and value addition	March	1	20	4	24	8	4	12	2	2	4	40
22	Post Harvest Technology	June	1	10	2	12	4	2	6	1	1	2	20
23	Group dynamics	March	1	10	2	12	4	2	6	1	1	2	20
24	Formation and Management of SHGs	July	1	20	4	24	8	4	12	2	2	4	40
25	Entrepreneurial development of farmers/youths	January	1	10	2	12	4	2	6	1	1	2	20
26	Capacity building for ICT application	March	2	10	2	12	4	2	6	1	1	2	20
27	Farm machinery, tools and implements	February	4	20	4	24	8	4	12	2	2	4	40
28	Preparation of polybag nursery seedlings for summer crops	January	1	05	03	08	10	04	14	02	01	03	25
29	Nutrient management in mango	February	1	05	03	08	10	04	14	02	01	03	25
30	Curing process in turmeric rhizome	March	1	05	03	08	10	04	14	02	01	03	25
31	Cultivation practices with use of natural farming in water melon and musk melon	April	1	10	2	12	4	2	6	1	1	2	20
32	Water management of horticultural crops	May	1	10	2	12	4	2	6	1	1	2	20

33	Sowing of turmeric and ginger rhizome in protray technique	June	1	10	2	12	4	2	6	1	1	2	20
34	Nursery Raising technique in Solanaceae crops	July	1	10	2	12	4	2	6	1	1	2	20
35	Integrated nutrient Management in major horticulture Crops	August	1	05	03	08	10	04	14	02	01	03	25
36	Cultural practices of kharif onion	Sept.	1	05	03	08	10	04	14	02	01	03	25
37	Preparation of nursery bed for cole crop	October	1	05	03	08	10	04	14	02	01	03	25
38	Cultivation of seasonal flower crops	Nov.	1	05	03	08	10	04	14	02	01	03	25
39	Small scale processing and value addition	Dec.	1	05	03	08	10	04	14	02	01	03	25
40	Natural farming	Jan	1	5	5	10	5	5	10	3	2	5	25
41	Soil testing and its importance	Feb	1	5	5	10	5	5	10	3	2	5	25
42	Soil test fertilizer recommendation	March	1	5	5	10	5	5	10	3	2	5	25
43	Integrated Farming	April	1	10	2	12	4	2	6	1	1	2	20
44	Seed production	May	1	10	2	12	4	2	6	1	1	2	20
45	Integrated Crop Management	June	12	20	4	24	8	4	12	2	2	4	40
46	Seed production	July	6	10	2	12	4	2	6	1	1	2	20
47	Soil & water conservation	August	12	20	4	24	8	4	12	2	2	4	40
48	Integrated nutrient Management	September	6	10	2	12	4	2	6	1	1	2	20
49	Production of organic inputs	October	12	20	4	24	8	4	12	2	2	4	40
50	Production of organic manures	November	12	20	4	24	8	4	12	2	2	4	40
51	Oyster Mushroom Production	January	12	20	4	24	8	4	12	2	2	4	40
52	Insect Pest Management of Wheat	February	6	10	2	12	4	2	6	1	1	2	20
53	Insect pest management of Summer Pulses	March	12	20	4	24	8	4	12	2	2	4	40
54	Insect pest management of Sugarcane	April	6	10	2	12	4	2	6	1	1	2	20
55	Insect pest management of Summer Rice	May	6	10	2	12	4	2	6	1	1	2	20
56	Paddy Mushroom Production	June	12	20	4	24	8	4	12	2	2	4	40
57	Insect Pest Management of paddy	July	6	10	2	12	4	2	6	1	1	2	20
58	Insect pest management of Kharif pulse crops	August	12	20	4	24	8	4	12	2	2	4	40
59	Insect Pest Management of Tomato	September	6	10	2	12	4	2	6	1	1	2	20
60	Insect pest management of Rabi Oilseeds	October	12	20	4	24	8	4	12	2	2	4	40
61	Insect pest management of Rabi Pulses	November	12	20	4	24	8	4	12	2	2	4	40
62	Trichoderma Production techniques	December	12	20	4	24	8	4	12	2	2	4	40

Target for Production and supply seed, planting material and technological products

Kharif 2024 Seed Production Programme at KVK Farm, Bemetara

S. No.	Name of Crop	Variety	Class of Seed	Area (ha)	Expected Production (Q)
1	Soybean	CG Soya 1	BS	7	70
2	Urd	Indira Urd Pratham	BS	0.4	3
3	Paddy	Dubraj Selection-1	FS	1.2	15
Total				8.6 ha	

Rabi 2024-25 Seed Production Programme at KVK Farm, Bemetara

S. No.	Name of Crop	Variety	Class of Seed	Area (ha)	Expected Production (Q)
1	Chick Pea	C G Chana-2	BS	5.5	50
2	Wheat	Kanishka	BS	3	40
Total				8.5 ha	

Planting material Production Programme at Hi-tech Nursery of KVK-Bemetara, Farm

S. No.	Name of Crop	Variety	Number of Planting Material
01	Tomato, Grafted, Tomato, Brinjal, Grafted, Brinjal, Chilli, Cabbage, Cawliflower, Water Melon, Musk Melon, Bittergourd	OP & Hybrid Varieties	8 Lakh

Target for Production and supply seed, planting material and technological products

Essential Oil Production Programme at KVK-Bemetara, Farm

S. No.	Name of Aromatic Crop	Variety	Area (ha)	No. of Planting Material Production (Nos.)	Expected Quantity of oil extraction (L)
1	Lemon Grass	Krishna, Him Shikhar	4	40000	60
2	Citronella	CIM-Bio-13	1	10000	10
3	Palmarosa	Motiya	1	10000	15

Bio-product Production Programme of KVK Farm, Bemetara

S. No.	Name of Crop	Production
1	Waste Decomposer	500 Litres
2	Beejamrit	500 L
3	Ghanjeevamrit	100 Kg
4	Jeevamrit	500 L

Mushroom Spawn Production Programme at KVK, Bemetara

S. No.	Name of Crop	Production (Qtls.)
1	Oyster Mushroom Spawn	20
2	Oyster Mushroom	6

**Target for Production and supply seed, planting material and technological products
Proposed plan of Soybean Seed Hub for year 2024**

S. No.	Crops	Variety	Area (ha.)	Production (qtls.)	Produced Category
KHARIF					
1.	Soybean	CG Soya 1	100	1000	CS

Planting material Production Programme at KVK Farm, Bemetara

S. No.	Name of Crop	Variety	Number of Planting Material
01	Mango, Jamun, Citrus, Pomegrante, Bel, Tamrind, Guava, Custard Apple, Gulmohar, Karanj, Ban Tulsi, Bringraj, Ber, Amla, Guava (Gooty), Citrus (Gooty), Pomegranate (Gooty), Mango (Grafted)	Local Collection & Improved Varieties	50,000

1.OnCampus

[illegible]

Jan, 24		Integrated Pest Management of major Summer Crops	2	15	9	24	27	9	36	60
Feb, 24		Integrated Pest Management in major horticulture Crops	2	20	5	25	27	9	36	60
Aug, 24		Preparation of Beejamrit	2	20	6	26	27	9	36	60
Jul, 24		Mushroom cultivation	2	15	9	24	27	9	36	60
Nov, 24		Multiplication of Trichoderma	2	20	6	26	27	9	36	60
June, 24		Integrated Pest Management in major Kharif Crops	2	20	5	25	27	9	36	60
Dec, 24		Preparation of organic insecticides	2	20	6	26	27	9	36	60
Oct, 24		Integrated Pest Management in major Rabi Crops	1	10	10	20	27	9	36	60
Agriculture Extension (Capacity Building and Group Dynamics)–Nil										
Soil Science–Nil										
Fisheries										
Jan		Common Fish Disease Management	1	05	03	08	12	5	17	25
Feb		Water quality management of Fish Pond	1	05	03	08	12	5	17	25
March		Natural Fish Food Management	1	05	03	08	12	5	17	25
April		Fish Feed Management Technology	1	05	03	08	12	5	17	25
May		Preparation of Farm Made Fish Feed	1	05	03	08	12	5	17	25
June		Fish Seed Production in Seasonal Pond	1	05	03	08	12	5	17	25
July		Composite Fish Farming Technology	1	05	03	08	12	5	17	25
Aug		Advance Fish Production Technology	1	05	03	08	12	5	17	25
Sept		Semi biofloc&Biofloc Fish Farming	1	05	03	08	12	5	17	25
Oct		Community Fish Pond management	1	05	03	08	12	5	17	25
Nov		Integrated Fish Farming Technology	1	05	03	08	12	5	17	25
Dec		Processing & Value	1	05	03	08	12	5	17	25

		addition of Fish								
Agri Engineering										
Jan		Farm machinery & its maintenance	2	10	2	12	5	3	8	20
March		Processing and value addition	1	20	4	24	10	6	16	40
April		Nursery Management	2	10	2	12	5	3	8	20
May		Installation and maintenance of micro irrigation systems	1	20	4	24	10	6	16	40
June		Use of Plastics in farming practices	2	10	2	12	5	3	8	20
July		Repair and maintenance of farm machinery and implements	2	20	4	24	10	6	16	40
Sept		Post Harvest Technology	1	10	2	12	5	3	8	20
Oct		Formation and Management of SHGs	2	20	4	24	10	6	16	40
Nov		Capacity building for ICT application	1	10	2	12	5	3	8	20
Dec		Farm machinery, tools and implements	2	20	4	24	10	6	16	40

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production – Soil Science/Agronomy										
April		Soil sampling methods (b) Importance of deep summer ploughing (c) Irrigation Management in summer crops (d) Natural farming	1	5	5	10	8	7	15	25
May		Storage of seeds (b)Seed hub (c) Harvesting of summer agronomic crops (d) Natural farming	1	5	5	10	8	7	15	25
Jun		Field preparation, sowing and fertilizer management of Kharif crops	1	5	5	10	8	7	15	25
Jul		Soil test fertilizer recommendation,Preparation and use of beejamrita and jeevamritaKharif crops	1	5	5	10	8	7	15	25
Aug		a) Fertilizer management in kharif crops (b) integrated nutrient management in kharif crop © Natural farming	1	5	5	10	8	7	15	25

Sep		Soil sampling (b) Natural farming	1	5	5	10	8	7	15	25
Nov		a) Storage of seeds (b) Irrigation management in rabi crops © Crop ration and diversification (d) Natural farming	1	5	5	10	8	7	15	25
Horticulture										
Feb		Curing process in turmeric rhizome	1	10	10	20	10	10	20	40
Feb		Cultivation practices with use of natural farming in water melon and musk melon	1	10	10	20	10	10	20	40
June		Sowing of turmeric and ginger rhizome in 37ortray technique	2	10	10	20	10	10	20	40
July		Preparation and use of beejamrita and jeevamrita in Kharif horticultural crops	2	10	10	20	10	10	20	40
October		Preparation and use of beejamrita and jeevamrita in Rabi horticultural crops	2	10	10	20	10	10	20	40
Livestock production-Nil										
Home Science-Nil										
Plant Protection – Entomology/Plant Pathology										
June, 23		Integrated Pest Management in major kharif Crops	2	15	9	24	27	9	36	60
July, 23		Integrated Pest Management in major horticulture Crops	2	20	5	25	27	9	36	60
Aug, 23		Preparation of organic insecticides	2	20	6	26	27	9	36	60
Sep, 23		Mushroom cultivation	2	15	9	24	27	9	36	60
Oct, 23		Multiplication of Trichoderma	2	20	6	26	27	9	36	60
Nov, 23		Integrated Pest Management in major Rabi Crops	2	20	5	25	27	9	36	60
Dec, 23		Preparation of organic insecticides	2	20	6	26	27	9	36	60
Feb		Use of beejamrita in cucurbitaceous vegetable crops	1	10	10	20	27	9	36	60
Agriculture Extension (Capacity Building and Group Dynamics) –Nil										
Soil Science-Nil										
Fisheries										
Jan		Common Fish Disease Management	1	05	03	08	12	5	17	25
March		Natural Fish Food Management	1	05	03	08	12	5	17	25

May		Preparation of Farm Made Fish Feed	1	05	03	08	12	5	17	25
June		Fish Seed Production in Seasonal Pond	1	05	03	08	12	5	17	25
July		Composite Fish Farming Technology	1	05	03	08	12	5	17	25
Aug		Advance Fish Production Technology	1	05	03	08	12	5	17	25
Oct		Community Fish Pond management	1	05	03	08	12	5	17	25
Nov		Integrated Fish Farming Technology	1	05	03	08	12	5	17	25
Agri Engineering										
Jan		Farm machinery & its maintenance	1	10	2	12	5	3	8	20
March		Processing and value addition	1	20	4	24	10	6	16	40
April		Nursery Management	1	10	2	12	5	3	8	20
May		Installation and maintenance of micro irrigation systems	1	20	4	24	10	6	16	40
June		Use of Plastics in farming practices	1	10	2	12	5	3	8	20
July		Repair and maintenance of farm machinery and implements	1	20	4	24	10	6	16	40
Sept		Small scale processing and value addition	1	20	4	24	10	6	16	40
Oct		Formation and Management of SHGs	1	20	4	24	10	6	16	40
Dec		Farm machinery, tools and implements	1	20	4	24	10	6	16	40

Vocational Training Programme for Rural Youth:- Nil

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
Livestock production										
Home Science										
Plant	Oct	Trichoderma	1	5	5	10	8	7	15	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Protection		Production techniques								
	July	Mushroom cultivation	1	5	5	10	8	7	15	25
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production – Soil Science/Agroonomy										
April		Soil sampling methods (b) Importance of deep summer ploughing (c) Irrigation Management in summer crops (d) Natural farming	1	5	5	10	8	7	15	25
Jul		a) Weed management in Khraif crops (b) Intercultural operations in maize and sugarcane (c) Transplanting of rice	1	5	5	10	8	7	15	25
Aug		a) Fertilizer management in kharif crops (b) Fodder maize cultivation technique © Natural farming	1	5	5	10	8	7	15	25
Nov		a) Storage of seeds (b) Irrigation management in rabi crops © Crop ration and diversification (d) Natural farming	1	5	5	10	8	7	15	25
Dec		a) Intercultural operations (b) Natural farming © millets cultivation	1	5	5	10	8	7	15	25
Horticulture										
Feb		Curing process in turmeric rhizome	1	10	10	20	10	10	20	40
Feb		Cultivation practices with use of natural farming in water melon and musk melon	1	10	10	20	10	10	20	40
June		Sowing of turmeric and ginger rhizome in 39ortrav	2	10	10	20	10	10	20	40

		technique								
July		Preparation and use of beejamrita and jeevamrita in Kharif horticultural crops	2	10	10	20	10	10	20	40
October		Preparation and use of beejamrita and jeevamrita in Rabi horticultural crops	2	10	10	20	10	10	20	40
Livestock production-Nil										
Home Science-Nil										
Plant Protection – Entomology/Plant Pathology										
June, 23		Integrated Pest Management in major kharif Crops	2	15	9	24	27	9	36	60
July, 23		Integrated Pest Management in major horticulture Crops	2	20	5	25	27	9	36	60
Aug, 23		Preparation of organic insecticides	2	20	6	26	27	9	36	60
Sep, 23		Mushroom cultivation	2	15	9	24	27	9	36	60
Oct, 23		Multiplication of Trichoderma	2	20	6	26	27	9	36	60
Nov, 23		Integrated Pest Management in major Rabi Crops	2	20	5	25	27	9	36	60
Dec, 23		Preparation of organic insecticides	2	20	6	26	27	9	36	60
Feb		Use of beejamrita in cucurbitaceous vegetable crops	1	10	10	20	27	9	36	60
Agriculture Extension (Capacity Building and Group Dynamics) –Nil										
Soil Science-Nil										
Fisheries										
Jan		Common Fish Disease Management	1	05	03	08	12	5	17	25
March		Natural Fish Food Management	1	05	03	08	12	5	17	25
April		Fish Feed Management Technology	1	05	03	08	12	5	17	25
July		Composite Fish Farming Technology	1	05	03	08	12	5	17	25
Aug		Advance Fish Production Technology	1	05	03	08	12	5	17	25
Nov		Integrated Fish Farming Technology	1	05	03	08	12	5	17	25
Agri Engineering										
Jan		Farm machinery & its maintenance	1	10	2	12	5	3	8	20
March		Processing and	1	20	4	24	10	6	16	40

		value addition								
May		Installation and maintenance of micro irrigation systems	1	20	4	24	10	6	16	40
June		Use of Plastics in farming practices	1	10	2	12	5	3	8	20
July		Repair and maintenance of farm machinery and implements	1	20	4	24	10	6	16	40
Sept		Small scale processing and value addition	1	20	4	24	10	6	16	40
Oct		Formation and Management of SHGs	1	20	4	24	10	6	16	40
Oct		Entrepreneurial development of farmers/youths	1	10	2	12	5	3	8	20

iii) Sponsored Training Programmes - Nil

S. No.	Title	Thematic area	Duration	Client PF/ RY/ EF	No. of courses	No. of participants							Sponsor ing agen cy
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1													
2													

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	25	25	50	05	05	10	30	30	60
Kisan Mela	02	25	25	50	05	05	10	30	30	60
Kisan Ghosthi	03	25	25	50	05	05	10	30	30	60
Exhibition	02	25	25	50	05	05	10	30	30	60
Film Show	20	25	25	50	05	05	10	30	30	60
Method Demonstrations	04	25	25	50	05	05	10	30	30	60
Farmers Seminar	05	25	25	50	05	05	10	30	30	60
Workshop	05	25	25	50	05	05	10	30	30	60
Group meetings	12	25	25	50	05	05	10	30	30	60
Lectures delivered as resource persons	20	25	25	50	05	05	10	30	30	60
Newspaper coverage	25	25	25	50	05	05	10	30	30	60
Radio talks	05	25	25	50	05	05	10	30	30	60
TV talks	05	25	25	50	05	05	10	30	30	60

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Popular articles	02	25	25	50	05	05	10	30	30	60
Extension Literature	05	25	25	50	05	05	10	30	30	60
Advisory Services	10	25	25	50	05	05	10	30	30	60
Scientific visit to farmers field	10	25	25	50	05	05	10	30	30	60
Farmers visit to KVK	50	25	25	50	05	05	10	30	30	60
Diagnostic visits	24	25	25	50	05	05	10	30	30	60
Exposure visits	02	25	25	50	05	05	10	30	30	60
Ex-trainees Sammelan	01	25	25	50	05	05	10	30	30	60
Soil health Camp	02	25	25	50	05	05	10	30	30	60
Animal Health Camp	01	25	25	50	05	05	10	30	30	60
Agri mobile clinic	12	25	25	50	05	05	10	30	30	60
Soil test campaigns	00	25	25	50	05	05	10	30	30	60
Farm Science Club Conveners meet	00	25	25	50	05	05	10	30	30	60
Self Help Group Conveners meetings	02	25	25	50	05	05	10	30	30	60
Mahila Mandals Conveners meetings	02	25	25	50	05	05	10	30	30	60
Celebration of important days (specify)	03	25	25	50	05	05	10	30	30	60
Others (pl. specify)	03	25	25	50	05	05	10	30	30	60
Total	127	750	750	1500	150	150	300	900	900	1800

Target for Production and supply of technological products
Target for Production and supply seed, planting material and technological products

Kharif 2024 Seed Production Programme at KVK Farm, Bemetara

S. No.	Name of Crop	Variety	Class of Seed	Area (Ha)	Expected Production (Q)
1	Soybean	JS 20-98	BS	5	60
2	Urd	Indira Urd Pratham	BS	1	5
3	Paddy	Dubraj Selection-1	FS	1	15
4	Pigeon Pea	C G Arhar 1	FS	0.4	6
5	Sem	Indira Sem-1	FS	0.4	3
6	Turmeric	Rasmi	TL	0.6	40

Rabi 2024-25 Seed Production Programme at KVK Farm, Bemetara

S. No.	Name of Crop	Variety	Class of Seed	Area (Ha)	Expected Production (Q)
1	Chick Pea	C G Chana-2	BS	3	40
2	Wheat	Chhattisgarh Amber	FS	2	25
3	Lathyrus	Mahatiwada	FS	0.4	4
4	Lentil	IPL-316	FS	1	5
5	Methi	RMT-305	FS	1	3

6	Coriander	Jawahar Dhaniya-1	TL	0.2	0.5
7	Palak	All Green	TL	0.2	0.5

PLANTING MATERIALS

Planting material Production Programme at KVK Farm, Bemetara

S. No.	Name of Crop	Variety	Number of Planting Material
1	Mango	Local Collection	5000
2	Jamun		5000
3	Citrus		5000
4	Pomegrante		1000
5	Bel		5000
6	Tamrind		1000
7	Guava		10000
8	Custard Apple		5000
9	Gulmohar		10000
10	Karanj		8000
11	Ban Tulsi		5000
12	Bringraj		5000
13	Ber		1000
14	Amla		2000
15	Guava (Gooty)	Illahabadisafeda, Dharidar, Arka Mrudula	8000
16	Citrus (Gooty)	Kagazi	5000
17	Pomegranate (Gooty)	Bhagua, G-137	2000
18	Mango (Grafted)	Amrapali, Deshari, Langda, Chausa	1000

Planting material Production Programme at Hi-tech Nursery of KVK-Bemetara, Farm

Sl. No.	Crop	Variety	Quantity (Nos.)
1	Tomato	Sahoo, Prishi, EW-815, NS-962, Kashi Aman	350000
2	Grafted Tomato	Sahoo	30000
3	Brinjal	VNR-212, Galaxy Green Round and White Brinjal	20000
4	Grafted Brinjal	VNR-212	10000
5	Chilli	Pride, NS-1061 (R), Kashi Anmol	100000
6	Cabbage	NS-43, Fieldman	30000
7	Cauliflower	, Super Sigrrah, Amazing, Tetris	40000
8	Water Melon	Kiran-2	30000
9	Musk Melon	Akshay-25, Mogambo, No. 24	40000
10	Bittergourd	BSAF Ruhan	15000
11	Broccoli	Green Magic	5000
12	Turmeric	Rashmi	300000
13	Ginger	Local	300000

Essential Oil Production Programme at KVK-Bemetara, Farm

S. No.	Name of Aromatic Crop	Variety	Area (Ha)	No. of Planting Material Production (Nos.)	Expected Quantity of oil extracted (L.)
1	Lemon Grass	Krishna, Him Shikhar	2	300000	60
2	Citronella	CIM-Bio-13	1	50000	15
3	Palmarosa	Motiya	1	30000	40
4	Turmeric	Rashmi	0.6	-	5
5	Eucalyptus	Local	-	-	5

Bio-product Production Programme of KVK Farm, Bemetara

S. No.	Name of Crop	Quantity
1	Waste Decomposer	1000 Litre
2	Beejamrut	1000Litre
3	Ghanjeevamrut	1000 Litre
4	Jeevamrut	200 Litre
5	Neemastra	50 Litre
6	Brahmastra	50 Litre

Bio-products -

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			2000
2	NADEP			2000
3				
BIO PESTICIDES				
1	Dasparniarkl		-	
2	Pesticides			
3				

LIVESTOCK- Nil

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-	-	-	-
SHEEP AND GOAT	-	-	-	-
POULTRY	-	-	-	-
FISHERIES				
Others (Specify)	-	-	-	-

Literature to be Developed/Published**KVK News Letter-**

Date of start	Periodicity	Number of copies to be published
January to March 2024	Quarterly	200
April to June 2024	Quarterly	200
July to September 2024	Quarterly	200
October to December 2024	Quarterly	200

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD / VCD	Natural Farming	4
2	CD	Integrated pest management	2

Success stories/Case studies identified for development as a case: ...8....(no.)

Indicate the specific training need analysis tools/methodology followed for (Viz PRA, AES, line dept, ex trainees, interface)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Audio visual, method demonstration
2	Rural Youth	Method demonstration
3	In-service personnel	Power point presentation
4	Methodology for identifying OFTs/FLDs	Method demonstration
5	Matrix ranking	-

Field Activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Batar,	Nawagarh	20 km
2	Sandi	Berla	40km
3	Mauhabhata	Saja	45km

1. No. of farm families selected per village : 5

2. No. of survey/PRA to be conducted: 3

3.11. Activities of Soil and Water Testing Laboratory - Nil

Year of establishment:

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	-	-	-

Details of samples analyzed so far: - Nil

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	-	-	-	-

Water Samples	-	-	-	-
Total	-	-	-	-

LINKAGES

Functionallinkagewithdifferentorganizations

Name of organization	Nature of linkage
CG state seed certification agency	Seed certification
CG Rajya beej& Krishi vikashnigam ltd.	Seed purchasing & Registration certification
National Seed Corporation (NSC)	Seed purchasing & seed selling
National Seed Project (NSP)	Seed purchasing & seed selling
Jila Panchayat	MNREGA, Projects
NGO (SAMARTH)	Training, Demonstration
Other KVKs	Seed purchasing & seed selling & other work

Detailsof linkage withATMA/ NFSM

a)IsATMAimplemented in yourdistrict

Yes/No

Name of Programme	Nature of linkage
Different type of training	In farmers field / offline mode

GivedetailsofprogrammersimplementedunderNationalHorticulturalMission

Name of Programme	Nature of linkage
Workshop on Protective cultivation of horticultural crops	Training- Sponsored by Horticultural Department
Planting material productions	Training- Sponsored by Horticultural Department

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Droneetc)

Name of Flagship programmes : Seed Hub, Natural farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Jan	Basic concept and principles of Natural Farming	25 Farmers
Feb	Basic concept and principles of Natural Farming and Preparation and use of Beejamrita	25 Farmers
Mar	Basic concept and principles of Natural Farming and Preparation and use of Jeevamrita	25 Farmers
Apr	Basic concept and principles of Natural Farming and Preparation and use of Ghanjeevamrita	25 Farmers
May	1)Basic concept and principles of Natural Farming and Crop protection in Natural Farming 2) Seed selling Under seed hub	25 Farmers 10 farmers
June	Seed selling Under seed hub and sowing	25 Farmers 10 farmers
July	1)Basic concept and principles of Natural arming and prepartion of beejamrita, jeevamrita and neemastra 2) Seed selling Under seed hub and sowing	25 Farmers 10 farmers
August	Basic concept and principles of Natural Farming	25 Farmers
September	1) Basic concept and principles of Natural Farming and Preparation and use of Beejamrita 2) Seed selling Under seed hub	25 Farmers

October	1) Basic concept and principles of Natural Farming and Preparation and use of Jeevamrita 2) Seed selling Under seed hub and sowing	25 Farmers
November	1) Basic concept and principles of Natural Farming and Preparation and use of Ghanjeevamrita 2) Sowing in seed hub	25 Farmers
December	Basic concept and principles of Natural Farming and Crop protection in Natural Farming	25 Farmers

Planning for Crop Cafeteria 2024

Total Area of Crop Cafeteria: 52 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif	JS 20-98	High yielding, Resistant to YMV and Charcol Rot	4
Soybean	Kharif	CG Soya-1	Good germination, tolerant to bud blight and shattering	4
Soybean	Kharif	RSC 10-46	Resistant to YMV, Charcol Rot, blight, bacterial pustule and pod borer	4
Sem	Kharif	Indira Sem-1	Early, High yielding, resistant to bean virus, rhizoctonia blight and insect	4
Sem	Kharif	Indira Sem-2		4
Turmeric	Kharif	Rasmi	Rhizome is fleshy, late maturing variety	4
Turmeric	Kharif	Roma	Rhizome is fleshy, resistant to disease and insect	4

Planning for Crop Cafeteria 2024

Total Area of Crop Cafeteria: 52 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Chick Pea	Rabi	CG Chana-2	Moderately resistant to wilt	4
	Rabi	RVG-201	Early maturing Desi type, moderately resistant to wilt	4
	Rabi	RVG-202	Mod, resistant against wilt and dry root rot and collar rot	4
Wheat	Rabi	CG Amber wheat	Excellent Chapatti making quality	4
	Rabi	CG Hansa wheat	Excellent Chapatti making quality, High Zn Content, Resistant to rust	4
Lathyrus	Rabi	Mahatiwda	Tol. to nematode & thrips, mod. Resistant to PM	4
	Rabi	Pratik	Tol. to downy mildew & mod. Resistant to powdery mildew	4
Lentil	Rabi	CG Masoor-1	High yielding, Moderately tolerant to drought	4
	Rabi	IPL -316	Tolerance to wilt and rust	4

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Fish	Catla, Rohu, Mrigal, Silver Carp, Grass Carp, Common Carp	1000	Marketable Size Fish
Hi-Tech Nursery	Vegetable seedlings	600	Planting material
Essential Oil Extraction Unit	Oil extraction of lemongrass, citronella, palmarosa, turmeric etc.	25	Essential Oil
Medicinal Plants	Propagation of Bantulsi, Bringraj, hadjod, Aparajita, Giloe, Aloe vera, Banlehsunetc	300	Seeds and other vegetative propagule
Natural Farming	Preparation of Beejamrita, Jeevamrita, Ghanjeevamrita	50	Beejamrita, Jeevamrita, Ghanjeevamrita
Mother orchard	Guava, Mango, Pomegranate, Citrus, Apple Ber	300	Plants/Fruits
Nadep and Vermicompost	Nadep and vermicompost production	100	Enriched Compost
Mushroom production	Oyster mushroom production	50	Oyster Mushroom

KVK Bhatapara

Year of sanction: November 2004

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Angad Singh Rajput	KVK, Bhatapara	9407962406	angad1971@yahoo.com

1.2 Staff Position on (31th Dec.2023)

[illegible]

1.3 Total land with KVK (in ha): 13 ha.

S. No.	Item	Area (ha)
1	Under Buildings	00.05
2	Under Demonstration Units	01.00
3	Under Crops	9.00
4	Orchard/Agro-forestry	02.00
5	Others (specify)	01.00
Total		13.00

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	29.01.2018	70X47				
2	Farmers Hostel	ICAR	29.01.2018	50X40				
3	Staff Quarters (6)	NA	NA	NA	NA	NA	NA	NA
4	Demonstration Units (2)	ICAR	29.01.2018	2000				
5	Fencing	ICAR	29.01.2018	70X47				
6	Rain Water harvesting system	nil	nil	nil	nil	nil	nil	nil
7	Threshing floor	RKVY						
8	Farm godown	RKVY, Seed Hub						

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Motor Cycle 2	2007		53697	Changeable
Bolero(Jeep)	2016-17	734661.00	41797	Good
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	29.05.2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1, Rainfed	Paddy – Chickpea-
2	AES – 2, Rainfed upland	Pigeon pea – Soybean
3	AES – 3, Irrigated	Chickpea – Wheat
4	Irrigated	Mustard
5		
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1, Vertisol (Kanhar-clayey)	low-lying deep bluish black soil with high moisture retention capacity. It is well suited for rabi crops, particularly wheat
2	AES – 2, Incept sol (Matasi-Sandyloam)	This is a yellow sandy soil, with an admixture of clay. It has limited moisture retention capacity. Though used for paddy
3	AES – 3, Alfisols (Dorsa-clayloam)	This type of soil is intermediate in terms of soil moisture retention between kanhar and matasi. This is best described as loamy, and is a colour between brown and yellow.
4	AES – 4, Entisol (Bhata-gravelly)	This soil is a coarse-textured, red sandy-gravelly soil, found on upland tops. It is deficient in minerals and other productivity enhancing nutrients
5	AES – 5	
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district
AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	359
Forest	25
Waste Land	10.99
Other than cultivated area	37.34
Cultivable waste and alkaline land	-
Pastures	-
Bushes	-
Current Fallow	6.96
Other Fallow	13.38
Agricultural Land	309.593
Area Sown	309
Kharif	237
Rabi	73
Zaid	
Cropping Intensity	113.08%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	89089
2	Well	5843
3	Tube well	20445
4	Ponds	5111
5	Others	17732

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Vertisols (Kanhra-clayey)	Low-lying deep bluish black soil with high moisture retention capacity. It is well suited for rabi crops, particularly wheat	48.873
2	Inceptisol (Matasi-Sandyloam)	This is a yellow sandy soil, with an admixture of clay. It has limited moisture retention capacity. Though used for paddy	94.996
3	Alfisols (Dorsa-clayloam)	This type of soil is intermediate in terms of soil moisture retention between kanhra and matasi. This is best described as loamy, and is a colour between brown and yellow.	56.992
4	Entisol (Bhata-gravelly)	This soil is a coarse-textured, red sandy-gravelly soil, found on upland tops. It is deficient in minerals and other productivity enhancing nutrients	23.802
	Others (Sandy)		14.605

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
1	Rice	239456	339816	17.73
2	Lathyrus	33564	28380	6.35
3	Summer Rice	4030	13060	34.90
4	Wheat	4314	7381	18.87
5	Chickpea	2922	2405	8.49

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	0	32.6	16.2

Feb. 2023	0	35.8	14.7
Mar. 2023	0	36.9	20.1
Apr. 2023	23.6	36.3	21.9
May. 2023	0	41.7	26.1
Jun. 2023	74.46	29.0	24.8
July. 2023	113.77	32.6	25.9
Aug. 2023	104.8	32.4	25.3
Sept. 2023	108.8	30.7	25.9
Oct. 2023	11.6	32.6	25.9
Nov. 2023	0	31	19
Dec. 2023	12.6	28	17

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>		 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>		 MT wool	 kg
Goats		 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>		---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	q/ month	 q/ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Bhatapara	Bhatapara	Gudeliya	Rice	The major problems are Indiscriminate use of fertilizers, more input cost and poor yield.	INM based on soil health card
2	Bhatapara	Bhatapara	Borsi	Soybean	Low yield due to inadequate and imbalance use of fertilizer	INM based on soil health card
3	Bhatapara	Bhatapara	Mendhra	Chickpea, Fieldpea	Low yield of pulses and vegetable crops due to inadequate nutrition, Lack of awareness about bio fertilizers and bio agents.	Natural Farming

Priority / Thrust areas

S. No.	Particulars
1.	INM based on soil health card for targeted yield of field crops
2.	Entrepreneurship development among small and marginal farmers
3.	Achieve yield potential of crop varieties.
4.	Promotion of profitable double cropping under rainfed condition.
5.	Promotion of integrated pest management in vegetables.
6.	Reduction in the cost of cultivation to get higher B:C ratio
7.	Promotion of green fodder for improvement in milk production for small and marginal dairy holders.
8.	Promotion of soil test-based fertilizer recommendation for major crop in the district.
9.	Drudgery reduction and manual power harnessing through farm machinery and equipments.

10.	Promotion of Natural Farming for soil health management
11	Assessment of hand push precision planter for mechanized sowing of pigeon pea on farm bunds.
12	Assessment of gender friendly hand push precision planter for mechanized sowing of okra

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants

Seed Production (Qtl.)	Planting material (Nos.)

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1									
2									
3									
4									

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
TOTAL										

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise		
Title of on farm trial		
Problem diagnosed		
Farmers' Practices		
Details of technologies selected for assessment	T ₁	
	T ₂	
	T ₃	Rows can be added if necessary
Source of technology		
Plot size		
No. of farmers		
Total cost		
Critical input		
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation		

OFT -2

1	Enterprise	
2	Title of on-farm trial	
3	Problem diagnosed	
4	Farming situation	
5	Production system and thematic area	
6	Farmers' practices	
7	Details of technologies selected for assessment/refinement Treatments	T ₁ T ₂ (Rows can be added if necessary)
8	Source of technology	
9	No. of animals	
10	No. of farmers	
11	Critical input	
12	Cost of input	
13	Total cost	
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering
Title of on-farm trial:	Assessment of hand push precision planter for mechanized sowing of Pigeon pea on farm bunds
Year/Season:	Kharif 2024
Farming situation:	Rainfed

Problem diagnosis:	Low cropping intensity, Farm bunds not be used for cultivation practices
Thematic area:	AEG
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing of pigeon pea by manually dibbling
T2 –Recommended Practice-	Hand push precision planter for mechanized sowing of pigeonpea on farm
T3- Recommended Practice-	-
Date of sowing:	24.06.2024
Date of harvesting:	15.03.2025
Source of technology:	IGKV (2021)
Characteristics of technology:	Cultivation cost, Seed saving, Energy MJ ha ⁻¹ , Field capacity, Field efficiency, Agronomical parameters, Yield and B:C ratio
Name of Crop/Enterprises:	Pigeon pea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering
Title of on-farm trial:	Assessment of hand push precision planter for mechanized sowing of Okra
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	The disadvantages of planting by manually sowing of okra seeds included excess seeds, higher drudgery and fatigue of labor, ununiformed of seeds spacing and planting depth for these reasons planted by manually okra sowing were plant ununiformed in height and strength, and the output would decrease
Thematic area:	AEG
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing of okra by manually dibbling
T2 –Recommended Practice-	Hand push precision planter for mechanized sowing of okra
T3- Recommended Practice-	-
Date of sowing:	05.07.2024
Date of harvesting:	25.10.2024
Source of technology:	IGKV (2021)
Characteristics of technology:	Cultivation cost, Seed saving, Energy MJ ha-1, Field capacity, Field efficiency, Agronomical parameters, Yield and B:C ratio
Name of Crop/Enterprises:	Okra

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment on Effect Foliar Application of Nano Urea on Wheat
Year/Season:	Rabi 2024
Farming situation:	Irrigated/Low land
Problem diagnosis:	Indiscriminate use of fertilizers, more input cost and poor yield
Thematic area:	Natural Farming
No of trials:	5
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Conventional method (80:58:0 kg/ha N:P:K)
T2 –Recommended Practice-	Basal application of NPK (60:60:40) kg/ha and two sprays of Nano urea (4ml/lit of water concentrations) at CRI and Tillering stage.
T3- Recommended Practice-	-
Date of sowing:	30.11.2024
Date of harvesting:	25.03.2025
Source of technology:	Paradeep Phosphate Ltd. Nano Urea, 2022
Characteristics of technology:	No. of Panicles/m ² , Yield q/ha and B:C ratio
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment on Effect Foliar Application of Nano Urea on Mustard
Year/Season:	Rabi 2024
Farming situation:	Low land/Irrigated
Problem diagnosis:	Low yield due to inadequate and imbalance use of fertilizer
Thematic area:	Integrated Nutrient Management
No of trials:	5
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer practice Dose (80:58:0:0) NPKS kg/ha
T2 –Recommended Practice-	RDF (100:80:40:20 N:P:K:S kg/ha)

T3- Recommended Practice-	Basal application of NPK (60:60:40) kg/ha and two sprays of Nano urea (4ml/lit of water concentrations) at CRI and Tillering stage.
Date of sowing:	01.12.2024
Date of harvesting:	15.03.2025
Source of technology:	Paradeep Phosphate Ltd. Nano Urea, 2022
Characteristics of technology:	No. of branches/plant,Yield q/ha and B:C ratio
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Integrated Nutrient Management based on soil health card for targeted yield in Rice
Year/Season:	Kharif 2024
Farming situation:	Low land/Irrigated
Problem diagnosis:	Low yield due to inadequate and imbalance use of fertilizer
Thematic area:	Integrated Nutrient Management
No of trials:	5
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer practice Dose (110:58:00) NPK kg/ha
T2 –Recommended Practice-	Use of STCR based Integrated Nutrient Management + FYM , (Yield Target 45 q/ha), Rajeshwari
T3- Recommended Practice-	-
Date of sowing:	15/07/2023
Date of harvesting:	30/11/2023
Source of technology:	IGKV, Raipur
Characteristics of technology:	No. of tillers/m ² , Yield q/ha and B:C ratio
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of natural farming management practices in Blackgram (Indira Urd Pratham)
Year/Season:	Kharif 2024
Farming situation:	Low land/Irrigated
Problem diagnosis:	Low yield due to inadequate nutrient management

Thematic area:	Natural Farming
No of trials:	5
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Coventional method (18:46:0 kg/ha N:P:K), use of pesticides for insect, disease and weed management
T2 –Recommended Practice-	Beejamrit+Ghanjeevamrit @ 250 kg/ha, Jeewamrit @ 500 l/ha twice in a month, mulch of previous crop @ 5 ton/ha, Neemashtra, Agniashtra, Brahmashtra, mixed leaf extract for plant protection
T3- Recommended Practice-	-
Date of sowing:	05.07.2024
Date of harvesting:	12.10.2024
Source of technology:	HAU, Haryana
Characteristics of technology:	Organic Carbon Content (%), Microbial Population, No. of pods/plant, Yield q/ha and B:C ratio
Name of Crop/Enterprises:	Blackgram
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Additional income generation through crops grown on rice field bund
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	No use of bund
Thematic area:	Additional income generation
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of bund
T2 –Recommended Practice-	Assessment Grown seasonal vegetable crops like cluster bean, okra, chilli, brinjal on rice bund.
T3- Recommended Practice-	-
Date of sowing:	10.07.2024
Date of harvesting:	7.12.2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Yield qt/ha , BC ratio
Name of Crop/Enterprises:	cluster bean, okra, chilli, brinjal
Recommendations for Farmers	

Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of natural farming management practices in Okra
Year/Season:	Kharif 2024
Farming situation:	Irrigated/Low land
Problem diagnosis:	Inadequate use of pesticides
Thematic area:	Natural Farming
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of pesticides for insect, disease and weed management
T2 –Recommended Practice-	Beejamrit+Ghanjeevamrit @ 250 kg/ha, Jeewamrit @ 500 l/ha twice in a month, mulch of previous crop @ 5 ton/ha, Neemashtra, Agniashtra, Brahmashttra, Dashparni mixed leaf extract for plant protection
T3- Recommended Practice-	-
Date of sowing:	05.07.2024
Date of harvesting:	12.10.2024
Source of technology:	HAU, Haryana
Characteristics of technology:	Organic Carbon Content (%), Yield q/ha and B:C ratio
Name of Crop/Enterprises:	cluster bean, okra, chilli, brinjal
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of natural farming management practices in leafy vegetables
Year/Season:	Rabi 2024
Farming situation:	Irrigated/Low land
Problem diagnosis:	Inadequate use of pesticides
Thematic area:	Natural Farming
No of trials:	07
No. of farmers involved	07
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of pesticides for insect, disease and weed management

T2 –Recommended Practice-	Beejamrit+Ghanjeewamrit @ 250 kg/ha, Jeewamrit @ 500 l/ha twice in a month, mulch of previous crop @ 5 ton/ha, Neemashtra, Agniashtra, Brahmashttra, Dashparni mixed leaf extract for plant protection
T3- Recommended Practice-	-
Date of sowing:	10/11/2023
Date of harvesting:	31/01/2024
Source of technology:	HAU, Haryana
Characteristics of technology:	Organic Carbon Content (%), Yield q/ha and B:C ratio
Name of Crop/Enterprises:	Leafy vegetables
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Plant Growth Promotion (PGPR) through BARC Mutant Trichoderma in Leafy vegetable
Year/Season:	Rabi 2024
Farming situation:	irrigated
Problem diagnosis:	Low yield due to Seedling disease
Thematic area:	Disease management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Not use bio fungicide
T2 –Recommended Practice-	Use of Trichoderma 5 to 10 gm per kg of seed
T3- Recommended Practice-	-
Date of sowing:	10/11/2024
Date of harvesting:	31/01/2024
Source of technology:	IGKV Raipur
Characteristics of technology:	Disease Incidence (%), Plant Height, Root length, Yield (q/ha), B:C ratio
Name of Crop/Enterprises:	Leafy vegetables
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/	Plant Protection

Fisheries etc)	
Title of on-farm trial:	Assessment of YVM virus in Okra
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield of mustard due to infestation of Aphid
Thematic area:	Integrated Pest Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Hazardous use of insecticides
T2 –Recommended Practice-	Seed treatment with Imidacloprid 600 FS @ 5g/kg seed + spraying of Acetamiprid 20 SP @ 0.3 gm/litre
T3- Recommended Practice-	-
Date of sowing:	10/07/2024
Date of harvesting:	25/11/2024
Source of technology:	IGKV Raipur
Characteristics of technology:	No. of infested plants/ sq.m., yield, B:C Ratio
Name of Crop/Enterprises:	Okra
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Blast disease management in Rice
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to Blast disease
Thematic area:	Disease Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Hazardous use of Fungicide
T2 –Recommended Practice-	Application of Tebuconazole 50%+Trifloxystorbin 25%@ 1g/lit of water
T3- Recommended Practice-	-
Date of sowing:	10/07/2024
Date of harvesting:	01/12/2024
Source of technology:	IGKV Raipur
Characteristics of technology:	Disease severity, Yield (q/ha), B:C ratio
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	

Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Chemical weed management on Soybean
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Soybean due to heavy infestation of weeds
Thematic area:	Weed Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imazethapyr 10SL@75 g a.i./ha (POE)
T2 –Recommended Practice-	Fluazifop-p-butyl + fomesafen @ 250 g a.i./ha (POE)
T3- Recommended Practice-	-
Date of sowing:	05.07.2024
Date of harvesting:	30.10.2024
Source of technology:	IGKV Raipur
Characteristics of technology:	Number of branches per plant at 60 DAS, Number of pods plant-1, Seed yield kg ha ⁻¹ No. of weeds before spray /m ² , No. of weeds after spray/m ²
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of foliar nutrition on Urd bean [<i>Vigna mungo</i> (L.)]
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Urd bean [<i>Vigna mungo</i> (L.)]
Thematic area:	INM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 – RDF (20:50:20:20) @ N: P ₂ O ₅ :K ₂ O: S kg ha ⁻¹ With Nano Urea Spray @ 0.25 % (Flower initiation + Pod initiation)
T2 –Recommended Practice-	T2 – RDF (20:50:20:20) @ N: P ₂ O ₅ :K ₂ O: S kg ha ⁻¹ With 19:19:19 NPK @ 2% (Flower initiation + Pod initiation)

T3- Recommended Practice-	-
Date of sowing:	05.07.2024
Date of harvesting:	15.10.2024
Source of technology:	IGKV Raipur
Characteristics of technology:	Number of branches per plant at 60 DAS, Number of pods plant ⁻¹ , Seed yield kg ha ⁻¹
Name of Crop/Enterprises:	Urd bean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Chemical Weed Management in Chickpea
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Chickpea due to heavy infestation of weeds
Thematic area:	Weed Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Pendimethalin 30 EC @ 1 kg a.i. per ha. (PE) fb Topramezone 20.6 g a.i. per ha. at 25 DAS
T2 –Recommended Practice-	Pendimethalin 30 EC @ 1 kg a.i. per ha. (PE) fb Quizalofop-p-ethyl @ 100 g a.i. per ha. at 25 DAS
T3- Recommended Practice-	-
Date of sowing:	05.11.2024
Date of harvesting:	05.03.2025
Source of technology:	ICAR- Directorate of Weed Research, Jabalpur
Characteristics of technology:	No. of weeds before spray /m ² , No. of weeds after spray/m ² , Seed yield kg ha ⁻¹ , Number of pods plant ⁻¹ No. of branches plant ⁻¹
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Chemical Weed Management in Wheat
Year/Season:	Rabi 2024

Farming situation:	Irrigated
Problem diagnosis:	Low yield of wheat due to heavy infestation of weeds
Thematic area:	Weed Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 – Ready mix of Clodinafop-propargyl 60 g ha ⁻¹ + Metsulfuron-methyl 4 g ha ⁻¹ at 30 DAS
T2 –Recommended Practice-	– Ready-mix of Sulfosulfuron + metsulfuron-methyl @40 g ha ⁻¹ at 30 DAS
T3- Recommended Practice-	-
Date of sowing:	25.11.2024
Date of harvesting:	30.03.2025
Source of technology:	ICAR- Directorate of Weed Research, Jabalpur
Characteristics of technology:	No. of weeds before spray /m ² , No. of weeds after spray/m ² , Seed yield kg ha ⁻¹ , Number of pods plant ⁻¹ No. of branches plant-1
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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 Dept. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Mustard (Var. CG Sarson -1)	INM	Improved Variety + RDF (100:80:40:20) NPKS, Kg/ha + Soil application of PSB @ 5 kg/ha.	Seed, Sulphur, PSB	Rabi, 2024	05	13	No. of Siliquae/plant, Yield, B:C ratio
2	Rice (Var. Rajeshwari)	INM	Improved Variety + 75% of RDF (100:60:40) NPK, Kg/ha + vermicompost enriched with microbial consortia.	Vermicompost, Microbial consortia, Seed	Kharif 2024	05	13	No. of tillers/plant, Yield, B:C ratio
3	Zinger	varietal evaluation	improved variety suprabha	Rhizome seeds	Kharif 2024-25	01	05	Rhizome wt per plant , yield qt/ha
4	Vegetables	Vegetable Production	Demonstration of Badi cultivation for nutritional and livelihood security of Farm Families	Fruits & vegetables seedling	Rabi 2024-25	01	05	yield qt/ha
5	Coriander	Varietal Evaluation	Improved variety pant haritima	Seed	Kharif, 2024	01	05	No of branches per plant , Yield, B:C Ratio
6	Rice	Disease Management	Foliar application of Chemicals under irrigated condition.	Insecticide	Kharif, 2024	5	12	Local Check/ Farmer Practice : yield, Disease Sevierty B:C ratio.
7	Rice	Integrated Pest Management	Seed treatment with carbendazim @ 2g/kg seed Clipping the tips of seedlings before transplanting. Trichogramma japonicum and T chilonis may be released @ 1 lakh/ha on appearance of egg masses / moth of yellow stem borer and leaf folder in the field.	Insecticide	Kharif, 2024	5	12	Local Check/ Farmer Practice : yield, Infestaion B:C ratio.

			Use of Pheromone traps with 5 mg lure @ 20 traps /ha Spray cartap hydrochloride 4% granules @ 20 kg/ha					
8	Mustard	Integrated Crop Management	Improved Variety + Seed Treatment + Line Sowing + Weed Management + Nutrient Management	Seed, Bio-fertilizer, Herbicide	Rabi-2024	5	12	Number of branches per plant at 60 DAS, Number of pods plant-1, Seed yield kg ha-1 , B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	November-December	500
2	Farmers Training	10	January-December	500
3	Media coverage	22	January-December	Mass
4	Training for extension functionaries	06	June-December	120

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demonstration	Local check
Demonstration on seed cum fertilizer drill for line sowing of paddy	Paddy	Kharif 2024	12	5.00	Seed cum fertilizer drill, Row to Row spacing- 22cm & Adjustable, No. of Rows Available 9, Fertilizer and Seed Metering -Fluted Roller.	Cultivation cost, Energy MJ ha-1, Field capacity, Field efficiency, Agronomical parameters, Yield and B:C ratio	Tractor drawn Seed cum fertilizer drill	/ Farmer Practice: Manually transplanting
Tractor drawn zero till seed cum fertilizer drill	Wheat	Rabi 2024	12	5.00	The zero-till seed-fertilizer drill is developed to sow wheat directly in rice-harvested fields without preparing the seedbed. It is a nine-row unit consisting of fluted rollers for seed metering and agitators over adjustable openings for fertilizer metering. The ground drive wheel supplies power through sprockets and chain for metering of seed and fertilizer. The furrow openers are of inverted 'T' type, spaced at 180 mm.	Cultivation cost, Energy MJ ha-1, Field capacity, Field efficiency, Agronomical parameters, Yield and B:C ratio	Tractor drawn zero till seed cum fertilizer drill	Farmer Practice: Tractor drawn seed cum fertilizer drill

**Field efficiency, labour saving etc.*

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

**Milk production, meat production, egg production, reduction in disease incidence etc.*

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	INM	Improved variety Seed treatment with Rhizobium & PSB Soil test based nutrient management.	Seed	Kharif-2024	10	25	Yield (q/ha)
2	Pigeon Pea	Varietal Evaluation	Improved variety Seed treatment with Rhizobium & PSB Soil test based nutrient management.	Seed	Kharif-2024	10	25	Yield (q/ha)
3	Black gram	Weed Management	Improved variety Seed treatment with Rhizobium & PSB Weed Management	Seed and Herbicide, Bio-fertilizer	Kharif-2024	10	25	Yield (q/ha)
4	Chickpea	Varietal Evaluation	Improved variety Seed treatment with Rhizobium & PSB Soil test based nutrient management.	Seed	Rabi 2024-25	20	50	Yield (q/ha)
5	Mustard	Varietal Evaluation	Improved variety Seed treatment with Rhizobium & PSB Soil test based nutrient management.	Seed	Rabi 2024-25	40	125	Yield (q/ha)
6	Linseed	Varietal Evaluation	Improved variety Seed treatment with Rhizobium & PSB	Seed and Bio-fertilizer	Rabi 2024-25	10	25	Yield (q/ha)
7	Field Pea	Varietal Evaluation	Improved variety Seed treatment with Rhizobium & PSB	Seed and Bio-fertilizer	Rabi 2024-25	10	25	Yield (q/ha)
8	Summer Moong	Varietal Evaluation	Improved variety Seed treatment with Rhizobium & PSB	Seed and Bio-fertilizer	Rabi 2024-25	10	25	Yield (q/ha)

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	03	October	75
2	Farmers Training	08	July-October	400
3	Media coverage	04	October - November	Mass
4	Training for extension functionaries	02	July-October	50

Training (Including the sponsored and FLD training programmes):
A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	02	02							50
Resource Conservation Technologies	01	01							25
Integrated Farming	01	01							25
Water management	01	01							25
Seed production	01	01							25
Integrated Crop Management	02	02							50
Total	08	08							250
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	04	04							100
Protective cultivation (Green Houses, Shade Net etc.)	04	04							100
Total	08	08							200
b) Fruits									
Management of young plants/orchards	02	02							50
Total	02	02							50
c) Ornamental Plants	02	02							50
Total	02	02							50
d) Plantation crops	02	02							50
Total	02	02							50
e) Tuber crops	02	02							50
Total	02	02							50
f) Spices									
Production and Management technology	02	02							50
Total	02	02							50
g) Medicinal and Aromatic Plants									
Production and management technology	02	02							50
Total	02	02							50
Grand total (Horticulture)	20	20							500
III Soil Health and Fertility Management									
Soil fertility management	02	02						50	
Soil and Water Conservation	01	01						25	

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST			Grand Total	
			Male	Female	Total	Male	Female	Total		
Total										
VI Agril. Engineering										
Farm machinery & its maintenance	01	01								25
Installation and maintenance of micro irrigation systems	02	02								50
Use of Plastics in farming practices	01	01								25
Production of small tools and implements	01	01								25
Repair and maintenance of farm machinery and implements	01	01								25
Small scale processing and value addition	01	01								25
Post-Harvest Technology	01	01								25
Advanced farm machinery	01	01								25
Farm mechanization in major Kharif crop	01	01								25
Farm mechanization in major Rabi crop	01	01								25
Total	11	11								275
VII Plant Protection										
Integrated Pest Management	04	04								100
Integrated Disease Management	04	04								100
Bio-control of pests and diseases	01	01								25
Production of bio control agents and bio pesticides	01	01								25
Total	10	10								250
VIII Fisheries										
Integrated fish farming										
Total										
IX Production										

[illegible]

[illegible]

B) OFF Campus

[illegible]

1. On Campus

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
11/07/2024		INM	01							25
15/11/2024		STCR	01							25
05/12/2024		World Soil Health Day	01							50
Horticulture										

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
15/07/2024		Okra								25
06/12/2024		Tomato								25
Livestock production										
Home Science										
Plant Protection										
1/07/2024		Rice insect management	01							25
4/08/2024		Rice Disease management	01							25
17/09/2024		Arhar pest control	01							25
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
04/08/2024		Organic Farming	01							25
7/09/2024		Natural Farming	01							25
18/10/2024		Micronutrient deficiency	01							25

Vocational Training Programme for Rural Youth:

[illegible]

[illegible][illegible][illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Soil test campaigns	01									50
Farm Science Club Conveners meet	0									0
Self Help Group Conveners meetings	17									50
Mahila Mandals Conveners meetings	0									0
Celebration of important days (specify)	7									400
Others (pl. specify)	0									0
Total	1804									

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	Dubraj selection -1/ Mahamaya	55
	Wheat	CG Gehu-03	25
OILSEEDS	Mustard	CG03	8
	Soyabean	CG Soya 1/ JS20-116	48
	Linseed	RLC 153	12
	Safflower	CG Kusum-1	8
PULSES	Pigeon Pea	CG –Arhar-1	300
	Lathyrus	Prateek	150
	Chickpea	JG-36	300
	Fieldpea	Indira Matar-1	150
	Green gram	MH-421/New Varity	100
	Black gram	Indira Urd Pratham	12
VEGETABLES	Elephant foot yam	Gajendra	4qtl
OTHERS (Specify)	Turmeric	Narendra	4qtl
	Zinger	Surbhi	4qtl

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Drumstick	PKM1	5000
	Papaya	Coorg Honey/ Madhu bindu	2000
SPICES	Turmeric	Narendra	4qtl
	Zinger	Surbhi	4qtl
VEGETABLES	Tomato	Arka Rakshak	5000
	Brinjal	Black beauty	5000
	Chilli	Pusa jwala	2000
	Elephant foot yam	Gajendra	4qtl
FOREST SPECIES			
ORNAMENTAL CROPS	Marigold	Pusa Narangi	5000

PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
January to March 2024	Q1	100
April to June 2024	Q2	100
July to September 2024	Q3	100
October to December 2024	Q4	100

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Paraswani	Palari	60
2	Mallin	Palari	70
3	Cherkapur	Palari	50
4	Rajadahar	Bhatapara	05
5	Tehka	Bhatapara	10
6	Muswadih	Palari	65
7	Mendra	Bhatapara	15
8	Khapradih	Bhatapara	03

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	pH meter	1	working
2	EC meter	1	working
3	Nitrogen distillation unit	1	working
4	Spectrophotometer	1	Not working
5	Flame photometer	1	Working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	250	-	10	-
Water Samples	-	-	-	-
Total	250	-	10	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
DDA	Training programme, field visit & monitoring of crop

Zila Panchayat	Training programme

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Training programme & Awareness programme	Natural farming	100
Training programme	Seed Hub	100
Training programme & Awareness programme	CBBO	100

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Kodo	Kharif	Indira Kodo-1		
Ragi	Kharif	Indira Ragi-1		
Horse gram	Kharif	Indira Kulthi-1		
Chickpea	Rabi	JG-36		
Wheat	Rabi	CG Gehu-03		
Field Pea	Rabi	Indira Matar-1		
Mustard	Rabi	CG03		

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Goatary unit			
Vermicompost unit			
Azola Unit			
Dairy unit			230 Liter milk p

ANNUAL ACTION PLAN 2024

KVK Bijapur

Year of sanction 2012

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Mr. Arun Kumar Sakni	Krishi Vigyan Kendra, Bijapur	9406374962	Kvk.bijapur@igkv.ac.in

1.2 Staff Position on (31th Dec.2023)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	-	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Arun Kumar Sakni	Subject matter Specialist	Soil Science	15600-39100+GP 6600	08.09.2014	2014	9406374962	arunsakni@gmail.com	
3	Subject Matter Specialist	Bhupendra Kumar Thakur	Subject matter Specialist	Agronomy	15600-39100+GP 6600	19.09.2014	2014	9424283111	bhupendra79thakur@gmail.com	
4	Subject Matter Specialist	Dr. Kanhaiya Lal Patel	Subject matter Specialist	Horticulture	15600-39100+GP 5400	10.10.2018	2018	9385698014	hehapatel@gmail.com	
5	Subject Matter Specialist	Bhirendra Kumar	Subject matter Specialist	Agromet.	15600-39100+GP 5400	09.09.2019	2019	7987311811	Monu.atfire@gmail.com	
6	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
7	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
8	Programme Assistant	Arvind Kumar Ayam	Programme Assistant	Entomology	9300-34000+GP 4200	14.10.2014	2014	9399967763	ayamaris1986@gmail.com	
9	Computer Programmer / Programme Assistant	Ishwar Lal Yadav	PA (Computer) Contractual	M.Sc. IT	25780/- fixed	01.11.2021	2021	9406006936		
10	Farm Manager	Dr. Dinesh Kumar Marapi	FM	Agronomy	9300-34000+GP 4200	09.11.2019	2019	6261927252	marapidineshkumar@gmail.com	
11	Assistant	Sahdev Prasad Suryawanshi	AG – II (Contractual)	M. Sc. IT	18428/- fixed	06.10.2021	2021	6260863635		
12	Jr. Stenographer / Comp. Operator									
13	Driver	Suresh Kumar Devdas	Driver	8 th class	5200-20200+GP1 900	21.04.2008	2008	6264963368		
14	Driver	Durgeshwar Navik	Driver (Contractual)	12 th	14200/- fixed	20.09.2021	2021	9301592292		
15	Supporting staff	Bhuneshwar Lingam	Peon (Contractual)	12 th	11360/- fixed	20.09.2021	2021	6261335213		
16	Supporting staff	Rajendra Kumar Dhruw	Peon (Contractual)	B.Sc (Science)	11360/- fixed	06.10.2021	2021	7898992392		

1.3 Total land with KVK (in ha) – 13.80

S. No.	Item	Area (ha)
1	Under Buildings	2.50
2	Under Demonstration Units	2.00
3	Under Crops	5.00
4	Orchard/Agro-forestry	2.50
5	Others (specify)	1.80
Total		13.80

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
01	Administrative Building	ICAR	January 2022	4000	141.00 lakh			Completed
02	Farmers Hostel	ICAR	2015-16	2500				Completed
03	Staff Quarters (6)	-						
04	Demonstration Units (2)	DMFT	January 2022	500				Completed
05	Implement shed	DMFT	2019-20	1500				Completed
06	Poly house	DMFT	2019-20	1500	25.99 lakh			Completed
07	Fencing	NMDC & DMFT						Completed
08	Rain Water harvesting system	DMFT						Completed
09	Threshing floor	DMFT						Completed
10	Farm godown	ICAR						Completed

B) Vehicles

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2018	-	Working
Camera	2018	-	Working
Handi cam	2018	-	Working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	21.08.2024
2	

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Agri + Poultry + Goatry
2	AES – 2	Agri + Vegetable + NTFTS
3	AES – 3	Agri + Poultry + Piggery
4		
5		
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 – Bastar Plateau Zone	Rice, Pulses, & Millets Crops
2	AES - 2	Rice, Vegetable, Groundnut
3	AES – 3	Rice,Pulse
4	AES – 4	Rice , Fellow
5	AES – 5	
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
• Received sufficient rainfall	Lack of storage structure of excess water	To take double crops by adapted soil moisture conservation	Soil erosion
Soil type	More cover light soil area	More scope of tuber crop cultivation	Lack of improved varieties

AES-2 (name)

Strength	Weakness	Opportunities	Threats
• Sufficient availability of Forest land & Pasture area	• No aware of	• Goatry & NTFT	• Lack awareness of raring of animals & importance of NTFT

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	653.762
Forest	315.948
Waste Land	17.617
Other than cultivated area	18.78
Cultivable waste and alkaline land	9.450
Pastures	9.020
Bushes	0
Current Fallow	9.450
Other Fallow	8.167
Agricultural Land	81.775
Area Sown	76.395
Kharif	76.395
Rabi	5.380
Zaid	0
Cropping Intensity	107%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	0
2	Well	77
3	Tube well	2781
4	Ponds	2475
5	Others	0

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Entisols	Sandy minerals low organic matter, Natural Fertility, Low WHC	196.13
2	Associated Vertic & Vertisols (Black Soil)	Very high clay content and high level of calcium carbonate	117.67
3	Entisols/Inceptisols	Inceptisols possess a weak B horizon while entisols contain on B horizon it pushes more erosion and leaching loss	104.61
4	Mollisols (Bharri)	A thick, dark surface horizon	111.13
5	Alfisols (Red Soils)	Moderately leached soils that have relatively high native fertility	124.21

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Rice	72.353	1457.18	20.14
2	Maize	0.712	9.86	13.85
3	Millets Crops	0.132		
4	Ragi	0.392		
5	Pigeon Pea	0.082		
6	Greengram	0.020	0.13	6.62
7	Blackgram	0.033	0.14	4.33
8	Other Crops	0.361		

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	0.0	31.5	7.2
Feb. 2023	0.0	35.2	8.0
Mar. 2023	39.6	36.8	16.4
Apr. 2023	81.3	41.2	21.4
May. 2023	7.0	42.8	21.0
Jun. 2023	27.4	43.3	24.2
July. 2023	843.2	34.3	22.5
Aug. 2023	215.4	32.7	22.0
Sept. 2023	359.6	34.0	25.8
Oct. 2023	0.0	33.7	15.5
Nov. 2023	3.0	31.7	15.4
Dec. 2023	52.5	32.5	9.5

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	157	14.215 MT.	11.04 kg
Buffalo	92	11.039 MT.	8.33 kg
Sheep			
<i>Crossbred/ Indigenous</i>		 MT wool	 kg
Goats	133000	0.133 MT	10 / kg
Pigs <i>Crossbred/ Indigenous</i>	240	0.024 MT	10 kg
Rabbits			
Poultry			
Hens	92828	0.13651 Lakh eggs	6.8 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	1856.13 (ha)	358.25 Q/ month	5.18 Q/ ha.

Details of Operational area / Villages (2024)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Bijapur	Bijapur	Kotapal, Itpal, Kuyenar, Ermnar, Naimed, Mingachal, Borje, Toynar	Rice, Blackgram, Greengram, Maize, Vegetables (Brinjal, Tomato, Cowpea, Chili & Guard Crops Poultry, Goatry, Piggery	HYV, Weed infestation, Pest & Diseases, Farm machination, Marketing & Quality planting materials	INM, IPM, IWM & Organic Farming/Natural Farming
2	Bijapur	Bhopalpatnam	Kesaiguda, Depla, Gorla, Lingapur, Rampuram, Minur	Groundnut, Sourghum, Cowpea, Sem, Chili, Tomato & Brinjal	Lack of improved varieties and agricultural critical inputs	HVY, IWM and INM
3	Bijapur	Bhairamgarh	Nelesnar, Talnar, Mingachal, Kodoli, Tumnar	Rice, Greengra, Blackgram, Horsegram, Millets crops, Vegetables (Brinjal, cowpea, Chili, Tomato)	HYV, Weed infestation, Pest & Diseases, Lack of critical inputs Farm machination, Marketing & Quality planting materials	INM, IPM, IWM & Organic Farming/Natural Farming
4	Bijapur	Usur	Awapali, Basaguda, Hirapur	Rice, Maize, Chili, Tomato	HYV, Weed infestation, Pest & Diseases, Farm machination, Marketing & Quality planting materials	INM, IPM, IWM & Organic Farming/Natural Farming

Priority / Thrust areas

S. No.	Particulars
1.	Organic and Natural Farming, Marketing and processing, Processing and value addition of NTFPs
2.	

TECHNICAL PROGRAMME**A. Details of targeted mandatory activities by KVK**

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
05	30	03	30

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
15	460	05	320

Seed Production (Qtl.)	Planting material (Nos.)
105	1.20 Lac

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT	Title of FLD	Title of Training	Title of training for extension personnel	Extension activities	Supply of seeds, planting materials etc.
1	INM	Maize	Low Yield	Assessment of performance of scented Rice under natural farming practice	Demonstration of Hybrid Maize & Integrated nutrient management	IWM in Hybrid Maize	Nil	Training, Gosthi & Diagnostic Visit	Seeds, Herbicide
2	Varietal Demonstration	Groundnut	Low Yield	Assessment of performance of yield in Finger Millets under natural farming practice	Demonstration of High Yielding Variety Groundnut, Variety – K-9	Improved package and practices of Groundnut Crop	Nil	Training, Gosthi, Field visit & Field day	Seeds, Fungicides
3	Precision Agriculture	Tomato	Low yield due to flood irrigation	Effect of drip irrigation and mulching on yield of Tomato	Demonstration of Integrated nutrient management in Cowpea	Cultivation practice of cowpea	Package and practices of cowpea	Training, Demonstration, Farm visit, group discussion etc	Planting materials
4	INM	Chili	Use of imbalance nutrient management	Integrated nutrient management of chilli (Capsicum annum L.)	Demonstration of Integrated nutrient management of Sweet corn	Cultivation practice of Chili	Package and practices of Chili	Training, Demonstration, Farm visit, group discussion etc	Planting materials

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Natural Farming	Rice, Finger Millet, Kodo Millet	-	-	-	-	-	-	-	-	02
Organic Farming	-	-	Black gram	-	-	-	-	-	-	01
Varietal Assessment	-	Groundnut	-	-	-	-	-	-	-	01
TOTAL										05

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Nil	
Title of on farm trial		
Problem diagnosed		
Farmers' Practices		
Details of technologies selected for assessment	T ₁	
	T ₂	
	T ₃	-
Source of technology		
Plot size		
No. of farmers		
Total cost		
Critical input		
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation		

OFT -2

1	Enterprise	Nil
2	Title of on-farm trial	
3	Problem diagnosed	
4	Farming situation	
5	Production system and thematic area	
6	Farmers' practices	
7	Details of technologies selected for assessment/refinement Treatments	T ₁ T ₂ (Rows can be added if necessary)
8	Source of technology	
9	No. of animals	
10	No. of farmers	
11	Critical input	
12	Cost of input	
13	Total cost	
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT: 01

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of yield maximization in Finger Millet under Natural Farming
Year/Season:	2024-25
Farming situation:	Up land Rainfed
Problem diagnosis:	Low production due to traditional practice
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Fertilizers
T2 –Recommended Practice-	Seed treatment with Beejamrit @ 5 L/5kg seed, Jeevamrit @ 500 ltr/ha, Ghanjeevamrit @ 250 ltr/ha
T3- Recommended Practice-	-
Date of sowing:	Mid-august 2024
Date of harvesting:	First week of November 2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Chemical free Farming
Name of Crop/Enterprises:	Finger Millet
Recommendations for Farmers	Farmers ready to adopt technology
Recommendations for Deptt. Personnel	To organized training of Natural Farming.
Feedback	-

Detailed Information about OFT: 02

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of yield maximization in Kodo Millet under Natural Farming
Year/Season:	2024-25
Farming situation:	Up land Rainfed
Problem diagnosis:	Low yield due to no use of fertilizers
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Only use FYM
T2 –Recommended Practice-	Seed treatment with Beejamrit @ 5 L/5kg seed, Jeevamrit @ 500 ltr/ha, Ghanjeevamrit @ 250 ltr/ha
T3- Recommended Practice-	-
Date of sowing:	Mid-august 2024
Date of harvesting:	First week of November 2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Chemical free Farming
Name of Crop/Enterprises:	Kodo Millet
Recommendations for Farmers	Farmers ready to adopt technology
Recommendations for Deptt. Personnel	To organized training of Natural Farming.
Feedback	-

Detailed Information about OFT: 03

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of yield performance of scented Rice under Natural Farming Practice
Year/Season:	2024-25
Farming situation:	Up land Rainfed
Problem diagnosis:	Low yield due to adopted traditional practice
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of fertilizer
T2 –Recommended Practice-	Beejamrit + Ghanjeevamrit @ 250 kg / ha + Jeevamrit @ 500 lit / ha twice a month Neemstra @250 lit/ha, Variety – Badasha Bhog
T3- Recommended Practice-	-
Date of sowing:	First week of July 2024
Date of harvesting:	Last week of November 2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Chemical free Farming
Name of Crop/Enterprises:	Scented Rice
Recommendations for Farmers	Farmers ready to adopt technology
Recommendations for Deptt. Personnel	To organized training of Natural Farming.
Feedback	-

Detailed Information about OFT: 04

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of yield performance of Black gram under organic farming practice
Year/Season:	2024-25
Farming situation:	Up land Rainfed
Problem diagnosis:	Low yield due to adopted traditional practice
Thematic area:	Organic Farming
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of fertilizer
T2 –Recommended Practice-	Seed treatment with Rhizobium and PSB@ 6gm/kg, FYM (2.5 t / ha) + vermi compost (0.80 t / ha)
T3- Recommended Practice-	-
Date of sowing:	Mid-August 2024
Date of harvesting:	Last week of November 2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Chemical free Farming
Name of Crop/Enterprises:	Black gram
Recommendations for Farmers	Farmers ready to adopt technology
Recommendations for Deptt. Personnel	To strengthen regard Organic Farming
Feedback	-

Detailed Information about OFT: 04

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Improved Variety of Groundnut (Var.- Nitya Haritha TCGS -1157)
Year/Season:	2024-25
Farming situation:	Up land Rainfed
Problem diagnosis:	Low Yield due to use of Old Variety
Thematic area:	Varietal Assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	K - 6
T2 –Recommended Practice-	Nitya Haritha
T3- Recommended Practice-	-
Date of sowing:	First week of October 2024
Date of harvesting:	Last week of January 2025
Source of technology:	ANGRAU, Tirupati (Telangana)
Characteristics of technology:	High yield
Name of Crop/Enterprises:	Groundnut
Recommendations for Farmers	Farmers ready to adopt technology
Recommendations for Deptt. Personnel	To awarded the New Variety
Feedback	-

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details
Nil	Nil

Information about Home Science OFT:

Title of on-farm trial:	Nil
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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 Dept. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Maize	Integrated Nutrient Management	Demonstration of Integrated Nutrient Management	Seed and technical guidance	Kharif 2024	2.0	10/10	Cob Length, Yield qtl/ha & B:C
2	Groundnut	Integrated Nutrient Management	Demonstration of Integrated nutrient management	Seed and technical guidance	Kharif 2024	4.0	10/10	No. of Pod/Plant, Pod weight / Plant, Yield & B:C
3	Maize	Weed Management	Demonstration of Weed Management in Maize	Herbicide	Kharif 2024	4.0	10/10	WCE %, Yield (q/ha), B:C

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	Sept. to Nov.	320
2	Farmers Training	08	Sept. to Nov.	260
3	Media coverage	12	Sept. to Nov.	Mass
4	Training for extension functionaries	0	0	0

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Groundnut	Varietal Demonstration	HYV, IWM & IPM	Seed, Herbicide & Pesticide	Kharif 2024	20.0	50/50	No. of pod/plant, Yield qtl/ha, B:C

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	02	Sept. & Nov. 2024	250
2	Farmers Training	03	Sept. oct. Nov. & Dec. 2024	150
3	Media coverage	10	Sept. to Nov. 2024	Mass
4	Training for extension functionaries	02	Sept. to Nov. 2024	30

Training (Including the sponsored and FLD training programmes):
A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	03	01	10	05	15	45	20	65	80
Resource Conservation Technologies	01	01	15	05	20	25	10	35	55
Integrated Farming	03	01	20	10	30	50	20	70	100
Water management	0								
Seed production	02	01	15	05	20	35	10	45	65
Integrated Crop Management	03	01	20	10	30	50	25	75	105
Total	12	5	25	35	115	205	85	290	405
II Horticulture									
a) Vegetable & fruit Crops	0								
Off-season vegetables	0								
Protective cultivation (Green Houses, Shade Net etc.)	0								
Total	0								
b) Fruits	0								
Management of young plants/orchards	0								
Total	0								
c) Ornamental Plants	0								
Total	0								
d) Plantation	0								

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
crops									
Total	0								
e) Tuber crops	0								
Total	0								
f) Spices	0								
Production and Management technology	0								
Total	0								
g) Medicinal and Aromatic Plants	0								
Production and management technology	0								
Total	0								
Grand total (Horticulture)	0								
III Soil Health and Fertility Management									
Soil fertility management	02	01	20	10	30	40	20	60	90
Soil and Water Conservation	03	01	25	10	35	70	30	100	135
Integrated Nutrient Management	03	01	40	20	60	75	30	105	165
Production and use of organic inputs	02	01	15	05	20	40	15	55	75
Management of Problematic soils	0								
Micro nutrient deficiency in crops	0								
Nutrient Use Efficiency	0								
Soil and Water Testing	04	01	30	10	40	90	35	125	165
Total	14	05	130	55	185	315	130	445	630
IV Livestock Production and Management									
Dairy Management	0								
Poultry Management	04	01	13	03	16	65	19	84	100
Disease Management	0								
Feed management	0								
Production of quality animal products	0								
Total	04	01	13	03	16	65	19	84	100
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	0								
Design and development of low/minimum cost diet	0								

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Designing and development for high nutrient efficiency diet	0								
Minimization of nutrient loss in processing	0								
Gender mainstreaming through SHGs	0								
Value addition	02	01	15	05	20	35	15	50	70
Income generation activities for empowerment of rural Women	03	01	20	10	30	40	15	55	85
Location specific drudgery reduction technologies	0								
Women and child care	0								
Total	05	02	35	15	50	75	30	105	155
VI Agril. Engineering									
Total									
VII Plant Protection									
Integrated Pest Management	02	01	20	10	30	40	10	50	80
Integrated Disease Management	03	01	45	10	55	60	20	70	125
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
Total	05	2	45	20	55	100	30	120	205
VIII Fisheries									
Integrated fish farming	0								
Total									
IX Production of Inputs at site									
Vermi-compost production	02	01	25	10	35	50	20	70	105
Organic manures production	01	01	15	05	20	25	10	35	55
Total	03	2	40	15	55	75	30	105	160
X Capacity Building and Group Dynamics									
Leadership development	0								
Group dynamics	0								
Formation and	02	01	25	10	35	40	20	60	95

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Management of SHGs									
Mobilization of social capital	01	01	20	10	30	40	10	50	80
Entrepreneurial development of farmers/youths	02	01	30	15	45	50	20	70	115
WTO and IPR issues	0								
Total	03	2	75	35	110	130	50	180	290
XI Agro-forestry	0								
Total	0								
XII Others (Pl. Specify)	0								
Grand Total	21	17	328	163	536	890	344	1329	1790
(B) RURAL YOUTH									
Mushroom Production	10	01	0	16	16	0	42	42	58
Bee-keeping									
Seed production	04	01	22	06	28	41	24	65	93
Planting material production	05	01	34	13	47	56	29	85	132
Vermi-culture	03	01	25	12	37	38	24	62	99
Value addition	03	01	18	04	22	30	18	48	70
Sheep and goat rearing	01	01	07	02	09	17	06	23	32
Para extension workers									
TOTAL	26	6	106	53	159	182	143	325	484
(C) Extension Personnel									
Productivity enhancement in field crops	03	01	08	03	11	19	10	29	40
Integrated Pest Management	04	01	25	11	36	39	21	60	96
Integrated Nutrient management	03	01	25	07	32	46	17	63	95
Protected cultivation technology	02	01	18	05	23	29	14	43	66
Group Dynamics and farmers organization	02	01	19	05	24	31	14	45	69
Capacity building for ICT application	01	01	09	03	12	22	11	33	45
Livestock feed and fodder production	02	01	15	04	19	28	12	40	59
Production and use of organic inputs	04	01	23	05	28	42	18	60	88
Gender mainstreaming	02	01	10	02	12	22	09	31	43

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
through SHGs									
Any other (Pl. Specify)	03	01	13	04	17	15	02	17	34
TOTAL	26	10	165	49	214	293	128	421	635

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	01	01	10	02	12	16	04	20	32
Resource Conservation Technologies	01	01	08	01	09	17	04	21	40
Cropping Systems	02	01	13	04	17	25	11	36	53
Crop Diversification	01	01	05	02	07	15	03	18	25
Integrated Farming	02	01	16	02	18	29	12	41	59
Water management	02	01	15	03	18	30	09	39	57
Seed production	01	01	09	03	12	18	04	22	34
Nursery management	04	01	36	12	48	54	19	73	121
Integrated Crop Management	04	01	24	11	35	45	26	71	106
Fodder production	02	01	10	03	13	21	07	28	41
Production of organic inputs	01	01	8	2	10	13	6	19	29
Total	21	11	154	45	199	283	105	388	597
II Horticulture									
a) Vegetable Crops	0								
Nursery raising	0								
Export potential vegetables	0								
Protective cultivation (Green Houses, Shade Net etc.)	0								
b) Fruits	0								
Cultivation of Fruit	0								
Management of young plants/orchards	0								
Export potential of ornamental plants	0								
Propagation techniques of Ornamental Plants	0								
d) Plantation crops	0								
e) Tuber crops	0								
f) Spices	0								
g) Medicinal and Aromatic Plants	0								
III Soil Health and Fertility Management									
Soil fertility	02	02	30	10	40	60	20	80	120

management									
Soil and Water Conservation	02	01	20	05	25	30	10	40	65
Integrated Nutrient Management	02	01	30	10	40	60	15	75	115
Production and use of organic inputs	03	01	40	20	60	70	30	100	160
Management of Problematic soils	0								
Micro nutrient deficiency in crops	0								
Nutrient Use Efficiency	0								
Soil and Water Testing	03	01	20	10	30	50	20	70	100
IV Livestock Production and Management									
Dairy Management	0								
Poultry Management	01	01	30	10	40	60	30	90	130
Disease Management	0								
Feed management	0								
Production of quality animal products	0								
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	0								
Design and development of low/minimum cost diet	0								
Designing and development for high nutrient efficiency diet	0								
Minimization of nutrient loss in processing	0								
Gender mainstreaming through SHGs	0								
Storage loss minimization techniques	0								
Value addition	02	01	25	10	35	65	15	80	115
Income generation activities for empowerment of rural Women	02	01	40	20	60	75	25	100	160
Location specific drudgery reduction technologies	0								
Rural Crafts	0								
Women and child care	0								
Total	17	09	235	95	330	470	140	635	965
VI Agril. Engineering	0								
VII Plant Protection									
Integrated Pest Management	01	01	30	10	40	70	10	80	120
Integrated Disease Management	0								

Bio-control of pests and diseases	0								
Production of bio control agents and bio pesticides	02	01	25	10	35	45	15	60	95
VIII Fisheries	0								
IX Production of Inputs at site	0								
X Capacity Building and Group Dynamics	0								
Leadership development	0								
Group dynamics	0								
Formation and Management of SHGs	0								
Mobilization of social capital	0								
Entrepreneurial development of farmers/youths	0								
WTO and IPR issues	0								
XI Agro-forestry	0								
XII Others (Pl. Specify)									
TOTAL	03	02	55	20	75	115	25	140	215
(B) RURAL YOUTH	0								
Production of organic inputs	0								
Sheep and goat rearing	0								
TOTAL	0								
(C) Extension Personnel	0								
TOTAL	0								

1. On Campus

[illegible]

2. Off Campus

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

S. No .	Title	Thematic area	Duration	Client PF/RY/EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Production of Vermicomposting	Organic Grower	01 Month	-	01	07	16	04	18	11	34	45	Kausa Vikash
2													

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	25	240	110	352	15	5	20	255	115	372
Kisan Mela										
Kisan Ghosthi	5	330	165	495	15	5	20	345	170	515
Exhibition	10	92	40	132	06	0	06	98	40	141
Film Show	0									
Method Demonstrations	0									
Farmers Seminar	0									
Workshop	0									
Group meetings	10	160	30	190	08	02	10	168	32	200
Lectures delivered as resource persons	0									
Newspaper coverage	0									
Radio talks	0									
TV talks	0									
Popular articles	0									
Extension Literature	0									
Advisory Services	0									
Scientific visit to farmers field	10	45	07	52	05	0	05	50	07	57
Farmers visit to KVK										
Diagnostic visits	10	42	04	46	05	0	05	51	04	55
Exposure visits	10	42	06	48	05	0	05	53	06	59
Ex-trainees Sammelan										
Soil health Camp	01	28	13	41	05	0	05	46	13	59
Animal Health Camp										
Agri mobile clinic	12	125	62	187	05	0	05	130	62	192
Soil test campaigns	01	12	04	16	05	0	05	17	04	21
Farm Science Club Conveners meet	0									
Self Help Group Conveners meetings	01	14	05	19	05	0	05	24	05	31
Mahila Mandals Conveners meetings	01	00	20	20	05	0	05	0	20	25
Celebration of important days (specify)	02	125	35	160	12	04	16	137	39	176
Others (pl. specify)	0									
Total	98	1255	501	1758	96	16	112	1374	517	1903

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	Indira Aerobic 1	105
	Finger millet	CG Ragi 3	25
OILSEEDS			
PULSES			
VEGETABLES	Cowpea	Kashi Kanchan	10
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango	Dashari, Mallika, Totapari	5000
SPICES			
VEGETABLES	Brinjal	Hybrid	45000
	Tomato	Hybrid	45000
	Chili	Hybrid	20000
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	Viride		1000
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost	Eisenia fetida		7000
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT	Goat	Black Bangal	10	85
POULTRY	Kadaknath, Bater	Kadaknath, Bater	Kadaknath- 500 Bater- 150	Kadaknath- 500 kg Bater - 35 kg
FISHERIES	Fish	Rou, Katla, Mirigal, Grass Carf	1000	-
Others (Specify)				

Literature to be Developed/Published**KVK News Letter**

Date of start	Periodicity	Number of copies to be published
Nil	Nil	Nil

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Nil	Nil	Nil
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Nil
2	Rural Youth	Nil
3	In-service personnel	Nil
4	methodology for identifying OFTs/FLDs	Nil
5	Matrix ranking	Nil

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Mingachal	Bhairamgarh	20
2	Dugoli	Bijapur	15
3	Rampuram	Bhopalpatnam	55
4	Reddy	Bijapur	25
5	Heerapur	Usoor	30
6	Mingachal	Bhairamgarh	20
7	Dugoli	Bijapur	15
8	Rampuram	Bhopalpatnam	55
9	Depla	Bhopalpatnam	60
10	Kesaiguda	Bhopalpatnam	45

1. No. of farm families selected per village: 10

2. No. of survey/PRA to be conducted: 03

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Nil	Nil	Nil
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	Nil	Nil	Nil	Nil
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
DDA Agriculture	Training, Field visit and data collation
ADH Horticulture	Planting materials and training
District Collector	Development of Infrastructure activities
Zila panchayat	Development of Infrastructure activities

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
Nil	Nil

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Nursery Raising	Nursery Development

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Sept. Oct. 2024	Sprayed of Insecticides through agri drone	20 ha

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 150 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	Indira Aerobic – 1, MTU 1010, IR 64, Badasha Bhog	Transplanting	30
Finger Millets	Kharif	C.G. Ragi – 3,	Line Sowing	30
Mustard	Rabi	Cowpea	Line Sowing	30
Sunflower	Rabi	KBSH 44	Line Sowing	30
Sweet Corn	Rabi	Sugar 75	Line Sowing	30

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Poultry	Kadakhnath Quail	1200	Rs 45000
Dairy	Sahiwal, HF	1000	Rs 65000
Goatry	Black Bengal	550	Rs 18500
Fish cum Duck	Rohu, Katla & Mirgal	1700	Rs 50000
IFS Model	Dairy+Goatry+Poultry+Vegetable	8000	Rs 1.20 Lakh

KVK Bilaspur

Year of sanction: 1984

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Arun Kumar Tripathi	07752291527	9753345714	aruntripathi847@gmail.com

1.2 Staff Position on (31th Dec.2024)

[illegible]

15	Supporting staff	Mr. Indra Ram Patel	Supporting staff		37400	01.01.1986	01.01.1986	7587135664	-	
16	Supporting staff	-	-	-	-	-	-	-	-	-

1.3 Total land with KVK (in ha): 11.82 ha

S. No.	Item	Area (ha)
1	Under Buildings	1.25
2	Under Demonstration Units	0.82
3	Under Crops	6.82
4	Orchard/Agro-forestry	1.40
5	Others (specify)	1.53
Total		11.82

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	1987					Old Building n need repairing
2	Farmers Hostel	ICAR	1987	-	-	-	-	Old Building need repairing
3	Staff Quarters (6)	ICAR	1992	-	-	-	-	Required repairing and maintenance
4	Demonstration Units (2)	ICAR	1995	-	-	-	-	-
5	Fencing	-	2002	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	ICAR	2000	-	-	-	-	Required repairing and maintenance
8	Farm godown	ICAR	-	-	-	-	-	Need to be made

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2012, 2024	832000/-		Running
Motor Cycle 2	2007	40739/-	57730	Running
Bolero(Jeep)	2016	646355/-	137468	Running
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Multicrop Thresher			Working
MB Plough			Working
Seed cum fertilizer drill	2024		Not working
Power Tiller			Not working
Cultivator			Working
Projector	2024		Working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	May 2024
2	October 2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	
2	AES – 2	
3	AES – 3	
4		
5		
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	
2	AES - 2	
3	AES – 3	
4	AES – 4	
5	AES – 5	
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	
Forest	
Waste Land	
Other than cultivated area	
Cultivable waste and alkaline land	
Pastures	
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	
Area Sown	
Kharif	
Rabi	
Zaid	
Cropping Intensity	

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	
2	Well	
3	Tube well	
4	Ponds	
5	Others	

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1			
2			
3			
4			

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
1				
2				
3				
4				
5				

Weather data (Jan, 2024- Dec., 2024)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2024			
Feb. 2024			
Mar. 2024			
Apr. 2024			
May. 2024			
Jun. 2024			
July. 2024			
Aug. 2024			
Sept. 2024			
Oct. 2024			
Nov. 2024			
Dec. 2024			

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>		 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>		 MT wool	 kg
Goats		 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>		---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	q/ month	 q/ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Bilha	Bilha	Dhuma	Rice, Linseed, Vegetables	High mortalities in vegetable nursery due to disease i.e. damping off, bacterial blight, root rot, virus diseases and nematodes	Improved crop management practices with changing climatic condition
2	Bilha	Bilha	Urtum	Rice, Mustard, Wheat	Rice panicle mites, sheath blight, Sheet rot, stem borer, plant hopper causing more yield losses	Integrated Pest Management in different crops
3	Masturi	Masturi	Risda	Rice, Mustard, Wheat, Chickpea, Groundnut	More drudgery and time consuming in weed management, labour scarcity,	Varietals replacement of major cereal, pulse, oilseed crop of district
4	Takhatpur	Takhatpur	Lakhasar	Rice, Mustard, Wheat	Field remains fallow after long duration rice.	Crop diversification in upland
5	Kota	Kota	Bhaisajhar	Rice, Pigeonpea, Wheat, Mustard	Lack of mechanized farming	Farm mechanization

Priority / Thrust areas

S. No.	Particulars
1.	Improved crop management practices with changing climatic condition
2.	Varietals replacement of major cereal, pulse, oilseed crop of district
3.	Crop diversification in upland
4.	Integrated Pest Management in different crops
5.	Balanced use of fertilizer
6.	Post harvest processing and Safe grain storage
7.	Out scaling of Natural Farming
8.	Value addition and Preservation of fruits and vegetable
9.	Nutritional security for small and marginal farmers
10.	Promotion for cultivation of millet crops

TECHNICAL PROGRAMME
A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
19	105	18	216

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2400	20	3000

Seed Production (Qtl.)	Planting material (Nos.)
4 Q	5000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1									
2									
3									
4									

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated weed Management	1	1								2
Integrated Nutrient Management					2					2
Integrated Pest Management	1		2		1					4
Integrated Disease Management	1				1					2
Farm Machinery and Power	1		1							2
TOTAL	4	1	3	0	4	0	0	0	0	12

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Nutritional Security								4
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise		
Title of on farm trial		
Problem diagnosed		
Farmers' Practices		
Details of technologies selected for assessment	T ₁	
	T ₂	
	T ₃	Rows can be added if necessary
Source of technology		
Plot size		
No. of farmers		
Total cost		
Critical input		

Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	

OFT -2

1	Enterprise	
2	Title of on-farm trial	
3	Problem diagnosed	
4	Farming situation	
5	Production system and thematic area	
6	Farmers' practices	
7	Details of technologies selected for assessment/refinement Treatments	T ₁ T ₂ (Rows can be added if necessary)
8	Source of technology	
9	No. of animals	
10	No. of farmers	
11	Critical input	
12	Cost of input	
13	Total cost	
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT: Agronomy 1

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of chemical weed management in Rice –Wheat cropping system
Year/Season:	Kharif 24
Farming situation:	Irrigated, midlands
Problem diagnosis:	Low productivity due to heavy infestation of weeds.
Thematic area:	Integrated Weed management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer's practice- manual weeding at 30-45 DAS
T2 –Recommended Practice-	Application of pre emergence herbicide Pendimethalin (38.7 CS) 680 g /ha followed by pre-mix of Cyhalofop-butyl + Penoxulam1 35g/ha as post emergence (25 to 30 DAS)
T3- Recommended Practice-	-
Date of sowing:	20 th june-15 th july
Date of harvesting:	15 th October -25 th October
Source of technology:	DWR, Jabalpur, 2022
Characteristics of technology:	Application of pre and post herbicides
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Agronomy 2

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of chemical weed management in Rice –Wheat cropping system
Year/Season:	Kharif 24
Farming situation:	Irrigated, midlands
Problem diagnosis:	Low productivity due to heavy infestation of weeds.
Thematic area:	Integrated Weed management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer's practice- manual weeding at 30-45 DAS
T2 –Recommended Practice-	Application of pre emergence herbicide Pendimethalin (38.7CS) 680g /ha followed by fenoxaprop-p-ethyl +Chlorimuron+metsulfuron (24+1.4) ai/ha as post –emergence (25 to 30 DAS)
T3- Recommended Practice-	Application of pre emergence herbicide Pyrazosulfuron (10 % WP) 20g ai /ha followed by fenoxaprop-p-ethyl +Chlorimuron+metsulfuron (24+1.4) ai/ha as post –emergence (25 to 30 DAS)
Date of sowing:	20 th June-15 th July
Date of harvesting:	15 th October -25 th October
Source of technology:	DWR, Jabalpur, 2022
Characteristics of technology:	Application of pre and post herbicides
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Agronomy 3

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment on Effect Foliar Application of Nano Urea on Rice
Year/Season:	Kharif-2024
Farming situation:	Irrigated
Problem diagnosis:	Indiscriminate use of fertilizers and more input cost.
Thematic area:	Nutrient management
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Conventional method (100:60:40 NPK kg/ha)
T2 –Recommended Practice-	Basal application of NPK (50:60:40) kg/ha and two sprays of Nano urea (0.4% concentration) at Tillering and Panicle Initiation stage.
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IFFCO , 2021

Characteristics of technology:	No. of Panicles/m ² , Yield q/ha and B:C ratio
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Agronomy 4

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of chemical weed management in Wheat
Year/Season:	Rabi24-25
Farming situation:	Irrigated, midland
Problem diagnosis:	Low productivity due to heavy infestation of weeds.
Thematic area:	Integrated weed management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
T1 – Farmers Practice-	Not practiced/ manual weeding
T2 –Recommended Practice-	Application of pre mix of Clodinafop propargyl+ metsulfuron methyl 64g/ha as post emergence (25 to 30 DAS)
T3- Recommended Practice-	
Date of sowing:	15 th October-15 th November
Date of harvesting:	15 th Feburary-15 th March
Source of technology:	DWR Jabalpur ,2022
Characteristics of technology:	Application of post emergence herbicide
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Agronomy 5

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of profitability of Indian mustard (<i>Brassica juncea</i>) with foliar fertilization.
Year/Season:	Rabi-2024
Farming situation:	Irrigated
Problem diagnosis:	Conventional method ,High and Imbalance use of Nutrient
Thematic area:	Nutrient management
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of fertilizer as a basal dose.
T2 –Recommended Practice-	Application of WSCF (19: 19: 19) @ 0.5%+ 0.5% ZnSO4
T3- Recommended Practice-	

Date of sowing:	
Date of harvesting:	
Source of technology:	HAU, 2022
Characteristics of technology:	No. of Siliquae/plant, Yield and B:C ratio
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	Use of fertilizer as a basal dose.
Recommendations for Deptt. Personnel	Application of WSCF (19: 19: 19) @ 0.5%+ 0.5% ZnSO4
Feedback	

Detailed Information about OFT: Horticulture 1

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of the effect of different doses of plant growth substances on fruit yield of Bitter Gourd during kharif season.
Year/Season:	2024 Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to poor fruit set in Bitter Gourd
Thematic area:	Nutrient Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of plant growth substances
T2 –Recommended Practice-	Spraying of tricontanole 0.05% @ 2ml/lt. at 40 and 65 DAS.
T3- Recommended Practice-	Spraying of NAA @ 5ml/lt. at 40 and 65 DAS
Date of sowing:	20 th June-15 th July
Date of harvesting:	15 th Sep -30 th October
Source of technology:	WBSAU
Characteristics of technology:	Use of plant growth substance i.e. Tricontanole and NAA
Name of Crop/Enterprises:	Bitter Gourd
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Horticulture 2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of foliar spray of water soluble fertilizer NPK 19:19:19 in Cauliflower.
Year/Season:	2024 Rabi (2024-25)
Farming situation:	Irrigated
Problem diagnosis:	Low productivity due to low fertilizer use efficiency
Thematic area:	Integrated Nutrient Management
No of trials:	05

No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalanced fertilizer application and no foliar spray.
T2 –Recommended Practice-	Nutrient management STV/SHC based (Approx. NPK 150:100:100 kg/ha) + Foliar spray of water soluble fertilizer NPK (19:19:19) @ 45gm/15 lt. of water, twice. (1st spray at 15-20 Days after transplant and 2nd spray at Flowering &head / Curd initiation stage.)
T3- Recommended Practice-	-
Date of sowing:	15-30 Nov 2024
Date of harvesting:	15 March 2025
Source of technology:	-
Characteristics of technology:	Nutrient management STV/SHC based (Approx. NPK 150:100:100 kg/ha) + Foliar spray of water soluble fertilizer NPK (19:19:19) @ 45gm/15 lt. of water, twice. (1st spray at 15-20 Days after transplant and 2nd spray at Flowering &head / Curd initiation stage.)
Name of Crop/Enterprises:	Cauliflower
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Entomology1

Name of Discipline	Entomology
Title of on-farm trial:	Rice
Year/Season:	Assessment of Integrated Pest Management for stem borer
Farming situation:	Irrigated
Problem diagnosis:	Stem borer is second highest infesting insect of rice after brown plant hopper
Thematic area:	Integrated pest management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Synthetic pyrethroids eg: bifenthrin, cyfluthrin, permethrin
T2 –Recommended Practice-	Use Spinetoram 11.7% SC @375 ml /ha + pheromone trap @25/ha
T3- Recommended Practice-	-
Date of sowing:	20 th june-15 th july
Date of harvesting:	15 th October -25 th October
Source of technology:	IGKV Raipur 2019-20
Characteristics of technology:	Application of insecticide
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Entomology2

Name of Discipline	Entomology
Title of on-farm trial:	Assessment of bio-pesticides against <i>Helicoverpa armigera</i> management in chickpea .
Year/Season:	Rabi 2025
Farming situation:	Irrigated
Problem diagnosis:	Poor Yield due to Pod borer infestation
Thematic area:	Integrated pest management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of insecticides eg :chlorpyriphos, fenitrothion
T2 –Recommended Practice-	Spray of <i>Beauvaria bassiana</i> @ 10 ml/litre of water
T3- Recommended Practice-	Spray of <i>Bacillus thuringiensis</i> @ 10 ml/litre of water
Date of sowing:	15 th October-15 th November
Date of harvesting:	15 th February-15 th March
Source of technology:	IGKV, BTCCARS Bilaspur 2018-19
Characteristics of technology:	Application of insecticide
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Plant Pathology 1

Name of Discipline	Plant Protection (Plant Pathology)
Title of on-farm trial:	Assessment of application of bio-agents for management of sheath blight in rice.
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Sheath blight of rice caused by <i>Rhizoctonia solani</i> is a potential threat to rice cultivation causing extensive damage to the crop in almost all the rice growing tracts of India. Yield losses due to this disease are estimated to be ranging from 1.2-69.0%
Thematic area:	Integrated Disease Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Mixed formulation and injudicious use of chemical fungicides.
T2 –Recommended Practice-	Soil application of <i>Trichoderma harzianum</i> + <i>Pseudomonas fluorescens</i> @ 0.2% mixed in FYM
T3- Recommended Practice-	Soil application of <i>Trichoderma harzianum</i> + <i>Pseudomonas fluorescens</i> @ 0.2% mixed in FYM followed by foliar spray of

	ZnSO ₄ and Lime at Maximum Tillering Stage for control of secondary infection.of sheath blight.
Date of sowing:	June-July
Date of harvesting:	October - November
Source of technology:	Prasad, Durga and Singh, Ramji (2018). <i>Internat. J. Plant Sci.</i> , 13 (1): 42-46
Characteristics of technology:	Management of sheath blight of rice through integrated application of bio-agents, organic amendments and resistance inducing chemicals.
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Plant Pathology 2

Name of Discipline	Plant Pathology
Title of on-farm trial:	Assessment of application of bio-agents for management of wilt complex in tomato
Year/Season:	2024-25/Rabi
Farming situation:	Irrigated
Problem diagnosis:	The occurrence of wilt diseases causing an average loss of 50 to 60% to tomato.
Thematic area:	Integrated Disease Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Mixed formulation and injudicious use of chemical fungicides.
T2 –Recommended Practice-	Soil application of <i>Trichoderma harzianum</i> 10g / kg + <i>Pseudomonas fluorescens</i> 10g / kg + Arbuscular Mycorrhiza Fungi (<i>Glomus intraradices</i>) 100g/ kg mixed in vermicompost, and will be applied 50 g/plant in the soil just before transplanting
T3- Recommended Practice-	T2 + Seedling Treatment with suspension of <i>T. harzianum</i> and <i>P. fluorescens</i> (each with 5 g/lit) for 30 min just before transplanting in the field + foliar spray of Mancozeb 75WP @ 2.5g/lit.
Date of sowing:	October - November
Date of harvesting:	January – February
Source of technology:	<i>Egyptian Journal of Biological Pest Control</i> .29:1, 2019
Characteristics of technology:	Eco-friendly management practices for the major diseases of tomato
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Agricultural Engineering 1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agricultural Engineering
Title of on-farm trial:	Assessment of Ambika paddy weeder in line sown rice for weed management.
Year/Season:	Kharif-2024
Farming situation:	Irrigated
Problem diagnosis:	High cost of weeding and labour intensive operation.
Thematic area:	Farm Machinery and Power
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Hand weeding
T2 –Recommended Practice-	Weeding through Ambika paddy weeder @ 20, 40 and 60 DAS.
T3- Recommended Practice-	
Date of sowing:	June 2024
Date of harvesting:	October-November 2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Time and cost consuming in manually weeding, labour scarcity.
Name of Crop/Enterprises:	Crop (Rice)
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Agricultural Engineering 2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agricultural Engineering
Title of on-farm trial:	Assessment of seed cum fertilizer drill in chickpea.
Year/Season:	Rabi-2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low productivity due to improper planting geometry.
Thematic area:	Farm Machinery and Power
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcasting.
T2 –Recommended Practice-	Sowing with seed cum fertilizer drill.

T3- Recommended Practice-	
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	IGKV, Raipur
Characteristics of technology:	Reduction of seed rate, maintain proper distance of plant to plant and labour scarcity.
Name of Crop/Enterprises:	Crop (Chickpea)
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT: 1

Title of on-farm trial:	Assessment of Nutritious <i>Laddu</i> made by dried drumstick leave as a nutrient supplement for anaemic adolescent girls.
Year/Season:	Rabi 2024-25
Problem diagnosis:	Lack awareness of Iron deficiency (Anaemia)
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Existing practiced
T2 –Recommended Practice-	Nutritious <i>Laddu</i> (Dried drumstick leaves powder 5 gm + 10 gram til + 100 gram wheat flour + 30 gm ghee + 50 gm jaggry) weekly four days for three month.

Source of technology:	Central Food Technological Research Institute (CFTRI), Mysore, 2000
Characteristics of technology:	Fortification of <i>laddu</i> with dry drumstick leaves
Name of Crop/Enterprises:	Enterprises
Farming situation:	NA
Date of sowing:	NA
Date of harvesting:	NA
Recommendations for Farmers	NA
Recommendations for Dept. Personnel	NA
Feedback	NA

Information about Home Science OFT: 2

Title of on-farm trial:	Assessment of mixed Bajra daliya to combat malnutrition among preschool.
Year/Season:	Rabi 2024-25
Problem diagnosis:	Mal Nutrition among pre school children
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Wheat daliya
T2 –Recommended Practice-	Bajra millet 100 gm + 10 gram til + tomato + cabbage 50 gm. supplement include in diet regularly for three months and awareness towards nutrition. 50 gm /day/ children for two month
Source of technology:	IIMR 2019 , Hyderabad
Characteristics of technology:	Enrich Bajra Daliya
Name of Crop/Enterprises:	Enterprises
Farming situation:	NA
Date of sowing:	NA
Date of harvesting:	NA
Recommendations for Farmers	NA
Recommendations for Dept. Personnel	NA
Feedback	NA

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Rice	IWM	Weed management in direct seeded rice	Herbicide	Kharif 2024	5	12	No. of weeds/m ² , Weed dry weight(g/m ²), WCE %, no. of panicles/ plant, Yield (q/ha) and B:C Ratio
2	Rice	IPM	Demonstration on panicle mite management in rice	Insedcticide	Kharif 2024	5	12	No. of healthy grain, no. of discolored grains, no. of chaffy grain per panicle, yield (qt/ha) and B:C ratio.
3	Rice	Plant protection	Single application of fungicide, i.e., Trifloxystrobin 25% + Tebuconazole 50% WG combination (0.04%) at booting or 50% panicle emergence stage for management of false smut disease in rice.	Fungicide (Trifloxystrobin 25% + Tebuconazole 50%)	Kharif - 2024	5	12	Infected panicle (%), Per cent yield increase
4	Okra	IWM	Weed management in Okra	Seed, Herbicide	Kharif 2024	1	05	Yield(q/ha), No. of weeds/sq. mt., B:C ratio
5	Blackgram	Crop management	Foliar spray of NPK (19:19:19) @ 2 % at twice at flower initiation (flowering stage) and pod formation stage	seed	2024	5	12	No. of pod/plant, Yield (q/ha.) and B:C Ratio
6	Wheat	INM	Integrated nutrient management in wheat.	Improved variety seed PSB and azotobactor	Rabi 2025	5	12	Pre and post assessment of NPK, Yield (q/ha) and B:C Ratio
7	Wheat	Crop management	Foliar spray of NPK (19:19:19) @ 1.5 % at Tillering and PI stage of crop	Seed	Rabi 2024	5	12	No. of Tillers/plant, Yield (q/ha.) and B:C Ratio

8	Tomato	IPM	Pheromone trap @25/ha, Spray HaNPV@ 250 LE at 28,32 and 42 days after transplanting, Need based spray of Indoxacarb @14.5 % SC	Pheromone trap	Rabi 2024	5	12	No. of damaged fruits/plant, yield and B:C ratio
9	Chickpea	Plant protection	Seed treated with <i>Trichoderma harzianum</i> @ 4g/kg seed + <i>Pseudomonas fluorescens</i> @ 5 g/kg seed + <i>Bacillus subtilis</i> @5g/kg seed for wilt disease management in chickpea.	<i>Trichoderma harzianum</i> + <i>Pseudomonas fluorescens</i> + <i>Bacillus subtilis</i>	Rabi 2024-25	5	12	Disease Incidence (%), Per cent yield increase
10	Onion	INM	Integrated Nutrient Management in Onion	Seed, Azospirillum & P.S.B	Rabi 24-2025	1	05	Average weight of bulb (gm), Yield (q/ha), B:C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	16	-	320
2	Farmers Training	72	-	1440
3	Media coverage	30	-	-
4	Training for extension functionaries	20	-	500

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Demonstration on seed cum fertilizer drill in direct seeded rice.	Rice	Kharif 2024	12	05	Seeding with seed cum fertilizer drill in direct seeded rice (DSR).	Seed rate (kg/ha), operational cost (Rs/ha), yield (q/ha), B:C Ratio.	Direct seeding of rice with @80kg seed/ha. by using seed cum fertilizer drill.	Broadcasting
Demonstration on happy seeder in wheat for line sowing.	Wheat	Rabi 2024-25	12	05	Seeding with happy seeder for line sowing	Seed rate (kg/ha), operational cost (Rs/ha), yield (q/ha), B:C Ratio.	Direct seeding of wheat with @100 kg seed/ ha. by using happy seeder	Broadcasting

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

**Milk production, meat production, egg production, reduction in disease incidence etc.*

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Demonstration on nutritional garden for nutritional status of farm household.	Spinach , red amaranths, Beet Root Okra, Coriander, fenugreek, beans, radish ,Cabbage, Chili	10	200 sqm	seed	Yield, B:C ratio, vitamin protein & minerals /day consumption		
Demonstration on farm household empowerment through value addition of Tamarind .	Tamarinds	10	10	Ginger and processing material	Net income, B:C ratio		

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Sesame	Crop Management	Improved variety, INM, IPM, Seed treatment	Seed	Kharif 2024	10	25	Yield, B:C ratio
2	Mustard	Crop Management	Improved variety, INM, IPM, Seed treatment	Seed	Rabi 2024-25	20	50	Yield, B:C ratio
3	Pigeonpea	Crop Management	Improved variety, INM, IPM, Seed treatment	Seed	Kharif 2024	20	50	Yield, B:C ratio
4	Chickpea	Crop Management	Improved variety, INM, IPM, Seed treatment	Seed	Rabi 2024-25	20	50	Yield, B:C ratio
5	Groundnut	Crop Management	Improved variety, INM, IPM, Seed treatment	Seed	Rabi 2024-25	10	25	Yield, B:C ratio
6	Linseed	ICM	Improved seed, line sowing, seed treatment	Improved Seed, biopesticides	Rabi 2024-25	10	25	Yield, B:C Ratio
7	Lathyrus	ICM	Improved seed, line sowing, seed treatment	Improved Seed, biopesticides	Rabi 2024-25	20	50	Yield, B:C Ratio

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	5	January-February	200
2	Farmers Training	10	November - March	300
3	Media coverage	20	November - March	Mass
4	Training for extension functionaries	05	October - March	150

A) ON Campus

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Plants									
Production and management technology	1	1							20
Total	1	1							20
Grand total (Horticulture)	8	8							160
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
Total									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	2							40
Design and development of low/minimum cost diet	2	2							40
Designing and development for high nutrient efficiency diet	2	2							40
Minimization of nutrient loss in processing	2	2							40
Gender mainstreaming through SHGs	2	2							40
Value addition	2	2							40

[illegible]

B) OFF Campus

[illegible]

Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	2							40
Design and development of low/minimum cost diet	2	2							40
Designing and development for high nutrient efficiency diet	2	2							40
Minimization of nutrient loss in processing	2	2							40
Gender mainstreaming through SHGs	2	2							40
Storage loss minimization techniques	2	2							40
Value addition	2	2							40
Income generation activities for empowerment of rural Women	2	2							40
Location specific drudgery reduction technologies	2	2							40
Rural Crafts	2	2							40
Women and child care	2	2							40
Total	22	22							440
VI Agril. Engineering	6	6							120
VII Plant Protection									
Integrated Pest Management	4	4							80
Integrated Disease Management	3	3							60
Bio-control of pests and diseases	5	5							100
Production of bio control agents and bio pesticides	3	3							60
VIII Fisheries									
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership	1	1							20

development									
Group dynamics	1	1							20
Formation and Management of SHGs	1	1							20
Mobilization of social capital	1	1							20
Entrepreneurial development of farmers/youths	1	1							20
WTO and IPR issues	1	1							20
XI Agro-forestry									
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs	3	3							60
Sheep and goat rearing									
TOTAL	3	3							60
(C) Extension Personnel	6	6							150
TOTAL	6	6							150

1. On Campus

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
January - December	F&FW		11							220
Horticulture										

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Home Science	Rural youth	Training on tie and die and embroidery	4 days							
October	RY	Value Addition of Millets	1							20
Plant Protection										
November	RY	Mushroom Production								20
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
	IS	Integrated weed management in kharif crops	1							20
	IS	Integrated weed management in Rabi crops	1							20
	IS	Integrated nutrient management in kharif crops	1							20
	IS	Integrated nutrient management in Rabi crops	1							20

[illegible]

[illegible][illegible][illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Exposure visits	10	-	-	-	-	-	-	-	-	200
Ex-trainees Sammelan	5	-	-	-	-	-	-	-	-	50
Soil health Camp	2	-	-	-	-	-	-	-	-	100
Animal Health Camp	2	-	-	-	-	-	-	-	-	100
Agri mobile clinic	2	-	-	-	-	-	-	-	-	100
Soil test campaigns	2	-	-	-	-	-	-	-	-	100
Farm Science Club Conveners meet	4	-	-	-	-	-	-	-	-	40
Self Help Group Conveners meetings	5	-	-	-	-	-	-	-	-	50
Mahila Mandals Conveners meetings	4	-	-	-	-	-	-	-	-	40
Celebration of important days (specify)	10	-	-	-	-	-	-	-	-	500
Others (pl. specify)		-	-	-	-	-	-	-	-	-
Total	2443	-	-	-	-	-	-	-	-	102380

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	Vikram TCR	200
	Wheat	Kanishka	100
OILSEEDS	Mustard	CG Sarson/DRMR 150-35	80
PULSES			
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava	L-49, Allahabad Safeda, Lalit	1500
	Acid lime	NRCC-7, NRCC-8, Pramalini, Sa Sarbati, Kagazi Lime	500
	Mango	Dasheri, Amrapali	5000
SPICES			
VEGETABLES	Tomato		1000
	Brinjal		1000
	Cauliflower		1000
	Cabbage		1000

	Chilli		1000
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	<i>Trichoderma viridae</i>	1	100 kg
2	<i>Rhizobium</i>			
3				
BIOFERTILIZERS				
1	Vermicompost			15000
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			500 L
2	Pesticides			200 L
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Cow	Sahiwal/HF	10	
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
01 January 2024	Quarterly	2000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	DVD	Drone Technology	50
2	DVD	CFLD - Pulses	50
3	DVD	CFLD - Pulses	50
4	DVD	Natural Farming	50

Success stories/Case studies identified for development as a case: 02 (no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1			
2			
3			
4			
5			
6			
7			
8			

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
Farmers – Scientist Interaction	Through Training

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK (NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
June- October	Demonstrations of various kharif crops under natural farming	20 Ha.
November - March	Demonstrations of various Rabi crops under natural farming	20 Ha.
April	Awareness programme on Natural Farming	200 beneficiaries
May	Farmers – Scientists interaction on natural farming for upcoming kharif season	50 beneficiaries
June	Training programme on Natural Farming for farmers and farm women	100 beneficiaries
July	Training programme on Natural Farming for in-service extension functionaries	50 beneficiaries
August	Exposure visit of the farmers and farm women	20 Farmers
September	Awareness programme on Natural Farming	200 beneficiaries
October	Farmers – Scientists interaction on natural farming for upcoming Rabi season	50 beneficiaries
November	Training programme on Natural Farming for farmers and farm women	100 beneficiaries
December	Training programme on Natural Farming for in-service extension functionaries	50 beneficiaries
January	Exposure visit of the farmers and farm women	20 Farmers

Planning for Crop Cafeteria

Total Area of Crop cafeteria: __100__ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	CGJT, Vikram - TCR	Newly IGKV released variety	100
Mustard	Rabi	CG Sarson - 1	Newly IGKV released variety	50
Wheat	Rabi	Kanishka	Newly IGKV released variety	50

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Dairy Unit	Sahiwal/HF/Gir Cow	185	Milk yield – 7500 L
High density Guava Orchard	L-49, Allahabad Safeda, Lalit	155	1500 no. of planting materials
Orchard of Acid Lime	NRCC-7, NRCC-8, Pramalini, Sai Sarbati, Kagazi Lime	90	500 no. of planting materials

KVK Dantewada

Year of sanction:- 2005

Name	Telephone / Contact		
	Office	Mobile	Email
Mr. Diproshan Banjara	KVK, Dantewada	9770468756	diproshanbanjara@gmail.com

[illegible]

1.3 Total land with KVK (in ha):- 12.4

S. No.	Item	Area (ha)
1	Under Buildings	0.60
2	Under Demonstration Units	1.0
3	Under Crops	8.0
4	Orchard/Agro-forestry	2.0
5	Others (specify)	0.80
Total		12.4

1.4 Infrastructural Development:**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	01.09.2009	-	-	-	-	-
2	Farmers Hostel	ICAR	01.09.2009	-	-	-	-	-
3	Staff Quarters (6)	ICAR	01.09.2009	-	-	-	-	-
4	Demonstration Units (2)	DMF	19.05.2017	-	-	-	-	-
5	Fencing	DMF	Progress	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	DMF	2014	-	-	-	-	-
8	Farm godown	ICAR	2013	-	-	-	-	-

B) Vehicles

Type of vehicle		Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	02	2006 & 2018	-	-	Only one is in working condition
Motor Cycle 2	02	2013 & 2019	-	-	Good condition.
Bolero(Jeep)	02	2018 & 2020	-	-	Good condition
Other (Pl. specify)			-	-	Good condition
Bus	01	2019			
Bolero Pic-Up	01	2020			

C) Equipment & AV aids

Name of the equipment		Year of purchase	Cost (Rs.)	Present status
Hatchery Unit	04	2019	-	Working condition
Pulverizer	01	2016	-	Working condition
Hot Air Oven	02	2016	-	Working condition
BOD	03	2016	-	Working condition
Autoclave	03	2016	-	Working condition
Tray Dryer	01	2016	-	Working condition
Fridge Double Door	01	2016	-	Working condition
Laminar Air Flow	01	2016	-	Working condition
Incubator	01	2016	-	Working condition
Grader	01	2013	-	Need for repairing
Chironji Processing Unit	01	2019	-	Need for repairing
Kodo Grader & Dehusker	01	2019	-	Need for repairing
AAS	01	2021	-	Good condition
Spectrophotometer	01	2020	-	Good condition
Flame photometer	01	2020	-	Good condition
Digestion Unit	01	2020	-	Need for repairing
Muffle Furnace	02	2020	-	Good condition
Distillation Unit	01	2020	-	Need for repairing
Kjeldahl Plus	01	2020	-	Need for repairing

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	15.08.2024
2	10.11.2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Paddy + Pulses + Poultry + Goatry + Vegetables
2	AES – 2	Paddy + Pulses + Poultry + Vegetables + Fruits Plants+ Mushroom
3	AES – 3	Fruit plant + Vegetables + Fisheries + Poultry
4	AES – 4	Paddy + Vegetables + Goatry + Poultry + Duckry + Fishery
5	AES – 5	Paddy + Pulses + Poultry

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	
2	AES - 2	
3	AES – 3	
4	AES – 4	
5	AES – 5	

SWOT Analysis of each Agro-Ecological Situations of district**AES-1 (name)**

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	341.05
Forest	228.50
Waste Land	39.61
Other than cultivated area	-
Cultivable waste and alkaline land	4.25
Pastures	6.29
Bushes	-
Current Fallow	30.74
Other Fallow	-
Agricultural Land	28.59
Area Sown	95.91
Kharif	93.38
Rabi	1.66
Zaid	-
Cropping Intensity	104%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)	
		Kharif	Rabi
1	Canal	5337	840
2	Well	18.40	9.0
3	Tube well	2490	2490
4	Ponds	1868	220
5	Others	-	-

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Entisol	Upland (Marhan or Bhata)	57.059
2	Inceptisol	Midland (Tikra or Matasi)	38.797
3	Alfisol	Mid-low land (Mal or Dorsa)	24.628
4	Vertisol	Low land (Gabhar or Kanhar)	19.401

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district (2023)

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
1	Paddy	69,443.00	26,02,185.90	24.07
2	Maize	1,700.00	29,240.00	17.20
3	Millets	14,681.00	80,745.50	5.50
4	Black gram	665.00	4,655.00	7.00
5	Green gram	494.00	3,705.00	7.50
6	Niger	95.00	470.25	4.95

Weather data (Jan, 2023- Dec, 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
January	78.00	28.68	12.19
February	00.60	32.10	11.70
March	00.00	37.80	17.00
April	30.60	40.10	22.60
May	64.70	40.70	23.50
June	85.40	37.10	23.90
July	627.00	30.10	22.70
August	528.10	27.00	22.40
September	164.20	28.40	25.30
October	73.70	33.00	23.00
November	28.00	33.80	16.00
December	00.00	30.27	14.85

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	187630	67.691 MT.	3 Litre
Buffalo	17570	10.378 MT.	4.5 Litre
Sheep			
Crossbred/ Indigenous	94	0 MT wool	 kg
Goats	75745	55.132 MT	 kg
Pigs Crossbred/ Indigenous	42867	25.35 MT	 kg
Rabbits			
Poultry			
Hens	202227	81.9 Lakh eggs	85 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	1487.494 (ha)	1500 MT	Q/ ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Dantewada	Dantewada	Kawalnar	Rice, Minor Millets, Green gram, Blackgram, Vegetables, Poultry farming , Goat farming Duck farming, NTFPs	Wilt, Open Grazening, Low moisture percentage	
2	Geedam	Geedam	Cherpai	Rice, Minor Millets, Green gram, Blackgram, Poultry farming , Goat farming Duck farming, NTFPs	Wilt, Open Grazening, Low moisture percentage	
3	Katekalyan	Katekalyan	Gatam	Rice, Minor Millets, Green gram, Blackgram, Poultry farming , Goat farming Duck farming, NTFPs	Wilt, Open Grazening, Low moisture percentage	
4	Kuakonda	Kuakonda	Halbarash	Rice, Minor Millets, Green gram, Blackgram, Poultry farming , Goat farming Duck farming, NTFPs	Wilt, Open Grazening, Low moisture percentage	

Priority / Thrust areas

S. No.	Particulars
1.	Livelihood development during Rabi season
2.	Improvement in yield potential in direct seeded rice
3.	Utilization and crop diversification in upland
4.	Increasing double cropped area
5.	Productivity of the minor millets can be increased by using improved variety and nutrient management.
6.	There is enough scope for rainwater harvesting as district receives 1392 mm rainfall.
7.	Enhancement of milk & meat productivity through improved breeds of cow.
8.	Highly nutritive Chicken production through Kadaknath Poultry
9.	Production of Herbal Gulal through natural flowers and vegetables leaves
10.	Low productivity due to use of local varieties and poor crop management
11.	Soil type of Dantewada Sandy Loam soil with low organic carbon
12.	Lack of irrigation facilities
13.	Problems of wilt in Solanaceous vegetable crops
14.	Lack of awareness about value addition and proper marketing of NTFPs produce
15.	Social problem is as low literacy rate and high alcoholic habit.

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
04	20	02	20

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
16	1200	15	10,000

Seed Production (Qtl.)	Planting material (Nos.)
100	10,000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1									
2									

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
TOTAL										

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of effect of Natural farming practices on productivity of paddy var. Indira Aerobic-1	
Problem diagnosed	Uses only farm yard manure in less quantity	
Farmers' Practices	Conventional sowing with application of FYM	
Details of technologies selected for assessment	T ₁	Conventional sowing with application of FYM
	T ₂	Application of Beejamrit+Ghanjeeamrit@250kg/ha+Jeevamrit @500 L/ha.
	T ₃	Application of Neemastra/Brahmastra/Chhanch - 250 L/ha
Source of technology	HAU, Haryana	
Plot size	05 Acres	
No. of farmers	05	
Total cost	7500/- (1500/ trial)	
Critical input	Seed, Beejamrit, Ghanjivamrit, Jeevamrit, neemastra/Brahmastra/Chhach	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	No. of tillers / hills, No. of effective tillers/hills, Panicle length (cm), Yield (kg/ha) and B:C ratio	

OFT-2

Crop / Enterprise	Green gram	
Title of on farm trial	Assessment of effect of Natural farming practices on productivity of Summer Green Gram	
Problem diagnosed	Uses only farm yard manure in less quantity	
Farmers' Situation	Low land	
Farmers' Practices	Conventional sowing with application of FYM	
Details of technologies selected for assessment	T ₁	Conventional sowing with application of FYM
	T ₂	Application of Beejamrit+Ghanjeeamrit@250kg/ha+Jeevamrit @500 L/ha.
	T ₃	Application of Neemastra - 250 L/ha
Source of technology	HAU, Hisar, Haryana	
Plot size	05 Acres	
No. of farmers	05	
Total cost	4500/- (900/ trial)	
Critical input	Seed, Beejamrit, Ghanjivamrit, Jeevamrit, neemastra/Brahmastra/Chhach	
Performance indicators:	Yield (kg/ha) and B:C ratio	

OFT -3

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of performance of portable mini rice mill	
Problem diagnosed	Hand/foot pounding methods are laborious and time taking process and resulted excessive rice broken.	
Farmers' Practices	Hand/ foot pounding or traditional mill	
Details of technologies selected for assessment	T ₁	Traditional rice milling machine.
	T ₂	By using portable mini rice mill.
	T ₃	
Source of technology	CFTRI Karnataka	
No. of farmers	05	
Total cost	7500/- (1500/ trial)	
Critical input	Raw paddy	
Performance indicators:	Capacity (kg/h) Dehusking efficiency (%) Whole rice percentage (%) Broken rice percentage (%)	

OFT-4

Crop / Enterprise	Charoli (<i>Buchanania lanzan</i>)	
Title of on farm trial	Assessment of Charoli nut decortication process developed by IGKV	
Problem diagnosed	Low kernel recovery due to inappropriate and traditional practices	
Farmers' Practices	Using traditional mill (Jatta) or hammer.	
Details of technologies selected for assessment	T ₁	Using traditional mill (Jatta) or hammer.
	T ₂	By Charoli decorticator
	T ₃	
Source of technology	IGKV, Raipur	
Plot size	-	
No. of farmers	10	
Total cost	10000/-	
Critical input	Chironji seed	
Performance indicators:	Capacity (kg/h) Decortication efficiency (%) Whole recovery (%) Broken recovery (%)	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of effect of Natural farming practices on productivity of paddy var. Indira Aerobic-1
Year/Season:	Kharif 2024
Farming situation:	Low land
Problem diagnosis:	Uses only farm yard manure in less quantity
Thematic area:	-
No of trials:	05
No. of farmers involved	-
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Conventional sowing with application of FYM
T2 –Recommended Practice-	Application of Beejamrit+Ghanjeeamrit@250kg/ha+Jeevamrit @500 L/ha.
T3- Recommended Practice-	Application of Neemastra/Brahmastra/Chhanch - 250 L/ha
Date of sowing:	June – July
Date of harvesting:	Oct – Nov.
Source of technology:	HAU Hisar
Characteristics of technology:	Low input requirement
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	Line sowing
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of effect of Natural farming practices on productivity of Summer Green Gram
Year/Season:	Kharif 2024
Farming situation:	Low land
Problem diagnosis:	Uses only farm yard manure in less quantity
Thematic area:	-
No of trials:	05
No. of farmers involved	-
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Conventional sowing with application of FYM
T2 –Recommended Practice-	Application of Beejamrit+Ghanjeeamrit@250kg/ha+Jeevamrit @500 L/ha.
T3- Recommended Practice-	Application of Neemastra/Brahmastra/Chhanch - 250 L/ha
Date of sowing:	June – July
Date of harvesting:	Oct – Nov.

Source of technology:	HAU Hisar
Characteristics of technology:	Low input requirement
Name of Crop/Enterprises:	Green gram
Recommendations for Farmers	Line sowing
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agricultural Engineering (Agricultural Processing & Food Engineering)
Title of on-farm trial:	Assessment of performance of portable mini rice mill
Year/Season:	2024
Farming situation:	
Problem diagnosis:	Hand/foot pounding methods are laborious and time taking process and resulted excessive rice broken.
Thematic area:	-
No of trials:	05
No. of farmers involved	-
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional rice milling machine.
T2 –Recommended Practice-	By using portable mini rice mill.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CFTRI Karnataka
Characteristics of technology:	Maximum rice recovery with minimum broken.
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	Low-cost portable mini rice mill.
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries, etc.)	Agricultural Engineering (Agricultural Processing & Food Engineering)
Title of on-farm trial:	Assessment of Charoli nut decortication process developed by IGKV
Year/Season:	2024
Farming situation:	-
Problem diagnosis:	Low kernel recovery due to inappropriate and traditional practices
Thematic area:	-
No of trials:	-
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Using traditional mill (Jatta) or hammer.

T2 –Recommended Practice-	By Charoli decorticator
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	Improved method for decortication of chironji seed.
Name of Crop/Enterprises:	Chironji seed
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Kodo millet	Nutrition sensitive agriculture	Line sowing and high yielding variety	Improved seed, Beejamrit, Ghanjivamrit, Jeevamrit, Neemastra/Brahmastra/ Chhach	Kharif 2024	4.8	12	Yield (q/ha.), B:C Ratio
2	Niger	Farm mechanization	Line sowing	Seed and Organic manures	Kharif 2024	4.8	12	Yield q/ha, B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	02	September and October	60
2	Farmers Training	04	June July August September	200
3	Media coverage	02	May - September	Mass
4	Training for extension functionaries	02	June	60

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Niger	Crop Production	Line sowing, INM	Seed and other	Kharif	10	25	Yield kg/ha B:C ratio
2	Linseed		Line sowing, INM		Rabi	10	25	
3	Sunflower		Line sowing, INM		Kharif	10	25	

4	Sunflower	Line sowing, INM	Rabi	20	50

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	02	Aug-Sep and Feb-March	80
2	Farmers Training	04	May June July August September	240
3	Media coverage	02	May June July August September	Mass
4	Training for extension functionaries	02	June and Dec	60

Training (Including the sponsored and FLD training programmes):

A) ON Campus

[illegible]

[illegible]

[illegible]

[illegible]

B) OFF Campus

[illegible]

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

[illegible]

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April – Dec 2024	100	Crop production	02	20	20	40	30	30	60	100
Horticulture										
Livestock production										
Home Science										
Agricultural Engineering										
April – Dec 2024	50	Farm Mechanization	02	10	10	20	15	15	30	50
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April – Dec 2024	100	Crop production	02	20	20	40	30	30	60	100
	50	Crop management	02	10	10	20	15	15	30	50
Horticulture										
Livestock production										
Home Science										
Agricultural Engineering										
April – Dec 2024	50	Farm Mechanization	02	10	10	20	15	15	30	50
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April – Dec 2024	100	Crop production	02	20	20	40	30	30	60	100
	50	Crop management	02	10	10	20	15	15	30	50
Horticulture										
Livestock production										
Home Science										
Agricultural Engineering										
April – Dec 2024	50	Farm Mechanization	02	10	10	20	15	15	30	50
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/RY/EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Scientific Farmer Meets	-	05	50	05	10	40	10	40	20	80	100	ATMA
2	Energy Conservation	-	05	50	05	10	40	10	40	20	80	100	CREDA

Extension Activities (including activities of FLD programmes)[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	Indira aerobic -1	100
OILSEEDS	-	-	-
PULSES	-	-	-
VEGETABLES	-	-	-
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	-	-	-
SPICES	-	-	-
VEGETABLES	-	-	10,000
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	Napier grass slip Lemon grass	-	10,000 10,000
OTHERS (Specify)	-	-	-

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No.	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Cow	Sahiwal	03	
		Jersey	01	
		Girr	01	
	Bullock	-	04	
	Calves	-	03	
Sheep and Goat	Goat	Black Bengal	15	
Poultry	Poultry	Kadaknath	3000	
Fisheries	Fishes	-		4000-5000
Others (Specify)	Quail	Japanese	1500	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
April to March	Around the year	10

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	-	-	-
2	-	-	-
3	-	-	-

Success stories/Case studies identified for development as a case: 05 (no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	-
2	Rural Youth	-
3	In-service personnel	-
4	methodology for identifying OFTs/FLDs	-
5	Matrix ranking	-

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Cherpal	Geedam	35
2	Kawalnar	Dantewada	38
3	Gatam	Katekalyan	55
4	Halbarash	Kuakonda	50

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of Establishment:- Nil

List of equipment's purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	-	-	-
2	-	-	-
3	-	-	-
4	-	-	-
5	-	-	-

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	-	-	-	-

Water Samples	-	-	-	-
Total	-	-	-	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
-	-

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district **Yes**

Name of Programme	Nature of linkage
Scientific farming practices for farmers	Official contact

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

[1] Name of Flagship programmes: ARYA

Month	Activity details	Targeted Beneficiaries/ Area/Coverage
Jan-Feb	Training – Preparation of Components and Application	30
May-July	Awareness – Crop Cultivation through Natural Farming	100
June-July	Demonstration Conduction	15
July-Aug	Training –Application of components	30
Aug-Sep	Training – Crop Protection on NF through Neemastra, Brmhastra, Agniastra, Khatti Chhachh	30

[2] Name of Flagship programmes: Natural Farming

Month	Activity details	Targeted Beneficiaries/ Area/Coverage
Jan-Feb	Kadaknath Poultry Farming	30
April-May	Processing of NTFPs	30
May-June	Lac Cultivation – Training	30
Sep-Oct	Mushroom Production	30
Oct-Nov	Processing of rice through Mini Rice Mill	30

Planning for Crop Cafeteria

Total Area of Crop cafeteria: **448** Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	Jawaful	Maturity -135-140 Days, Yield -30-35 q/ha	56.96
		Kadamful	Maturity -110-115Days, Yield -30-35 q/ha	56.96
		Loktimachi	Maturity -135-140 Days, Yield -30-35 q/ha	56.96
		Doobraj Selection-1	Maturity -140-145 Days, Yield -35-42 q/ha	56.96
		CG Sugandhit Dhan	Maturity -125-130 Days, Yield -35-40 q/ha	56.96
		Zinco Rice M.S.	Maturity -115-125 Days, Yield -40-45 q/ha	56.96
		Indira Aerobic-1	Maturity -110-120 Days, Yield -45-50 q/ha	56.96
Linseed	Rabi	RLC-133	Maturity -110-120 Days, Yield -10-12 q/ha	81.60
Lentil		CG Masur -1	Maturity - 88-96 Days, Yield -10-12 q/ha	81.60
Chickpea		RVG-202	Maturity – 110-120 Days, Yield -22-25 q/ha	81.60
Field pea		IPFD 10-12	Maturity 110-115 Days, Yield – 15-20 q/ha	81.60
Mustard		CG Sarson-1	Maturity 110-115 Days, Yield -10-15 q/ha	81.60

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Seed Production	Variety- Indira Aerobic-1	4.0 ha	120 Qtl.
Kadakhnath Hatching	Hatching and booder	150	45000-50000 Chicks/year
Kadakhnath breeding	Egg production	210	50000-60000 eggs/year
Bio flock	Fish production	48	5-6 q/year
Dairy	Milk production	800	5000 l /year
Goatery	Goat production	200	10-15 goat/year
Duckery	Duck production	50	2000-2500 /year
Quail Farming	Quail chicks	50	2500-3000/year
Processing	Processing of NTFPs	150	10 qtl/year
Mushroom production	Spawn and mushroom production	400	5 spawn and 2-3 qt mushroom / year
Fodder production	Green fodder and slips	2000	8-10 tonnes and 5 lakh slips
Vegetable seed production	Cow pea	500	50 kg
Kadakhnath residue management	Decomposing of poultry residue	200	8-10 tonnes
Mother Orchard	Mango, Guava and Citrus	8000	3000 guava plants

Year of sanction: 2004

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Ishwar Singh			
Senior Scientist & Head	-	9403673674	ishwarharsh@gmail.com

[illegible]

9	Computer Programmer / Programme Assistant	Mr. Ashok Kumar Sinha	PA, Computer	IT	9300-34800	06/09/2012	06/09/2012	9131354369	ashoka.sinha@gmail.com	
10	Farm Manager	Mr. Ashish Banjare	Farm Manager	Agronomy	9300-34800	31/10/2014	18/08/2015	9754013699	ashish.banjare@gmail.com	
11	Assistant	-	-	-	-	-	-	-	-	-
12	Jr. Stenographer / Comp. Operator	Smt. Sheshkumari Sahu	Asst. Grade II	M.A. Economics	23350	04/05/2023	04/05/2023	9977858164	sheshksahu92@gmail.com	
13	Driver	Mr. Naveen Masih	Driver	-	5200-20200	29/03/2013	06/03/2023	8305005593	-	
14	Driver	Shri G.Srinuwas Rao	Driver	-	5200-20200	30/03/2013	30/03/2013	7999660529	-	
15	Supporting staff	Shri. Sudan Yadav	Watchman	-	4750-7440	04/02/2006	04/02/2006	7509723228	-	
16	Supporting staff	Shri Emanvel Mashih	Peon	-	4750-7440	08/07/2013	08/07/2013	7974610687	-	

1.3 Total land with KVK (in ha): 14.26

S. No.	Item	Area (ha)
1	Under Buildings	1.81
2	Under Demonstration Units	1.45
3	Under Crops	8.00
4	Orchard/Agro-forestry	1.00
5	Others (specify) road/pond/dubries	2.00
Total		14.26

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	-	200	45,90,000.00	-	-	-
2	Farmers Hostel	-	-	-	-	-	-	-
3	Staff Quarters (6)	-	-	-	-	-	-	-
4	Demonstration Units (2)	-	-	-	-	-	-	-
5	Fencing							Complete
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	RKVY	-	2000				

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2017	8,00,000.00	2480 hrs	Good condition
Motor Cycle 2	10/2017	52000.00	180000	Not Good Condition and having under high maintenance
Bolero(Jeep)	05/2017	734661.00	154000	Not Good Condition and having under high maintenance
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2021	40000	Good
Xerox Machine	2021	12000	Not Good Condition and having under high maintenance
Generator	-	-	-
Video Camera	2017	35000	Good
Computer, Laser Printer	2021	25000	Not Good Condition and having under high maintenance
UPS 600 VA	2020	2500	Good
Stabilizer 2 KVA	-	-	-
Stabilizer	-	-	-
Inverter 600 VA (2)	-	-	-
Inverter Battery (2)	2015	30,000	Not Good Condition and having under high maintenance

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	20/07/2024
2	25/11/2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Rice – Rice cropping system 22.38%
2	AES – 2	Rice – Lathyrus cropping system 13%
3	AES – 3	Rice – Chickpea cropping system 10.44

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Vertisol (Kanhra) – Grey to Black in colour clayey soil covering area of 40.21% , neutral in soil reaction having properties of swelling and shrinkage low N content, medium P and high K in this soil type. Major Crops in these soils are Rice, Chickpea, Linseed, Wheat, Maize
2	AES - 2	Alfisol (Dorsa) cover 26.88 % area loamy in texture and medium acidic in soil reaction , low N,P and medium K. Major crops grown here are Rice, Wheat, Mustard, Lathyrus
3	AES – 3	Inceptisol (Matasi) covering 22.17% area, sandy loam in texture (Problem: highly susceptible to erosion and low water retention. Major Crops grown here are Ragi, Kodo, Kutki, Maize

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
water holding capacity high & better for cereal crops & pulses crop	Soil Cracking	we can grow cereal crop easily, Rich in organic matter	poor drainage

AES-2 (name)

Strength	Weakness	Opportunities	Threats
suitable for cereal & pulses	Soil Cracking, Low water holding capacity.	we can grow vegetable	Not suitable for tubers crop

AES-3 (name)

Strength	Weakness	Opportunities	Threats
Suitable for minor Millets crops	high susceptibility to erosion and limited water holding capacity	We can grow tubers & plantation crops	More water required, Ground water level is very low

AES-4 (name)

Strength	Weakness	Opportunities	Threats
-	-	-	-

Add AES if needed

Land Use Pattern

Particulars	Area “ ha”
Total Geographical area	212164
Forest	198288
Waste Land	21804
Other than cultivated area	
Cultivable waste and alkaline land	3855
Pastures	18838
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	209300
Area Sown	210079
Kharif	140890
Rabi	68410
Zaid	
Cropping Intensity	146%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	85496
2	Well	178
3	Tube well	33365
4	Ponds	156
5	Others	831

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Vertisols (Kanhari)	Vertisol (Kanhari) – Grey to Black in colour clayey soil covering area of 40.21% , neutral in soil reaction having properties of swelling and shrinkage low N content, medium P and high K in this soil type. Major Crops in these soils are Rice, Chickpea, Linseed, Wheat, Maize	58785
2	Alfisol (Dorsa)	Alfisol (Dorsa) cover 26.88 % area loamy in texture and medium acidic in soil reaction , low N,P and medium K. Major crops grown here are Rice, Wheat, Mustard, Lathyrus	39305
3	Inceptisol (Matasi)	Inceptisol (Matasi) covering 22.17% area, sandy loam in texture (Problem: highly susceptible to erosion and low water retention. Major Crops grown here are Ragi, Kodo, Kutki, Maize	32419
4	Entisols (Bhata)	Entisols (Bhata)– Red gravelly lateritic soil medium acidic in nature, water holding capacity is low, low N content, medium P and K covering 8.43% area of district. Major crops grown in these soils are pulse and oilseed.	12334
5.	Alluvial (Kachhar)	Alluvial soil is light, porous fertile soil, gravelly to silty clay covering 2.28% area in district. Crops grown mainly vegetables.	3336

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Rice	13949	4281400	35.67
2	Lathyrus	24990	164000	6.56
3	Chickpea	25150	275800	10.97

4	Maize	770	31700	41.17
5	Mustard	2120	9600	4.53

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 23			
Feb, 23			
Mar, 23			
Apr, 23			
May, 23			
Jun, 23			
July, 2023			
Aug., 2023			
Sept., 2023			
Oct. 2023			
Nov. 2023			
Dec. 2023			

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	254795	11485.52 MT.	11485520 kg
Buffalo	39107	4931.05MT.	4931050 kg
Sheep			
Crossbred/ Indigenous	-	-	-
Goats Meat	58582	193.219 MT	193219 kg
Pigs Crossbred/ Indigenous	7335	84.302 MT	84302 kg.
Rabbits	-	-	-
Poultry			
Hens	354478	459.369 Thousand	-
Turkey and others	-	-	-
Category	Area	Production	Productivity
Fish	3968.84 (ha)	14500 Mt./ year	36.53 Q/ ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Dhamtari	Dhamtari	Sankara, Kandel, Devpur, Tarsiwa, Mujgahan, Puri, Demar, Bodra	Rice, Mushroom, Livestock, Pulses, Oilseed, Vegetable, Fruits, Fisheries	Soil hardening, water holding capacity low, leaching loss, Pest infestation, Diseases	Crop rotation, Natural farming, Capacity building, vocational training, Vaccination.
2	Kurud	Kurud	Gadadih, Darra, Parsatti, Dhuma, Sakri, Bangar, Katalbod	Rice, Mushroom, Livestock, Pulses, Oilseed, Vegetable, Fruits, Fisheries	Diseases, Pest infestation, Soil hardening, water holding capacity low, leaching loss,	Crop rotation, Natural farming, Capacity building, vocational training, Vaccination.
3	Magarlod	Magarlod	Mohandi, Saunga, Sankra, Karelibadi	Rice, Millets, Mushroom, Livestock, Pulses, Oilseed, Vegetable, Fruits	Soil hardening, water holding capacity low, leaching loss, Pest infestation, Diseases	Micro Irrigation, Crop rotation, Capacity building, vocational training, Vaccination.
4	Nagari	Nagari	Amgaon, Ratawa, Saraitola,	Rice, Millets, tuber crops Livestock,	Pest infestation, water holding	Lac cultivation, Promotion of millets, value addition,

			Guhannala	Fisheries, Pulses, Oilseed, Vegetable	capacity low, leaching loss, Diseases	NTFP promotion, Vocational training, capacity building
5		-	-	-	-	-

Priority / Thrust areas

S. No.	Particulars
1.	Proper Management of Wetlands through Integrated Aqua farming techniques.
2.	Value addition & value added product & Value addition of fruits and vegetables
3.	Fruits and vegetable preservation
4.	Soil fertility and soil health
5.	High productivity of Paddy by improved methods
6.	Integrated pest management
7.	Fish Culture
8.	Production & Management
9.	Livestock Production & Management

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
13	65	14	48

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
230	6769	359	4204

Seed Production (Qtl.)	Planting material (Nos.)
380	1,42,000

[illegible]

A.1 Abstract on the number of technologies to be assessed in respect of crops

[illegible]

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
-	-	-	-	-	-	-	-	-
TOTAL								

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of different Natural Farming practices for scented Rice
Year/Season:	Kharif 2024
Farming situation:	Low Land
Problem diagnosis:	• Losses in soil fertility • High cost cultivation
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional practices (application of fertilizer)

T2 –Recommended Practice-	Seed tretment with bijamrit @ 1 litter/10 kg seed+Soil application of Ghanjivamrit +Foliar application of Jeevamrit @ 500 litter/ha at 20and 60 DAT and Foilar application of Neemastra and Brhmastra
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	HAU, Hariyana
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Horticulture 1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Tomato hybrid (Arka Rakshak) for varietal evaluation
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to wilting and curling & traditional Package of practices
Thematic area:	Varietal Evaluation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local available Hybrid
T2 –Recommended Practice-	improper Variety & Improved Package of practices
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	
Source of technology:	IIHR, Bangalore
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Horticulture 2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture

Title of on-farm trial:	Assessment of Marigold propagation through Cuttings for income generation.
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Lack of production technology of Marigold through cuttings.
Thematic area:	Integrated Crop Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Marigold Propagation through seeds
T2 –Recommended Practice-	Marigold Propagation through Cuttings (Kalkatiya Genda)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Marigold
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Soil Science 1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of EM technology on improving the yield of rice
Year/Season:	Kharif 2024
Farming situation:	Rainfed and Lowland
Problem diagnosis:	Lack of knowledge and no use of EM in Rice
Thematic area:	INM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers practice
T2 –Recommended Practice-	75% RDF (NPK 120:60:40:) kg/ha + 25 kg of ZnSO4 + Soil application of 1250ml Azospirillum culture (EM) with 40 kg FYM
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Rice

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Soil Science 2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Banana Pseudostem Sap as Organic Liquid fertilizer in Onion
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	No use of organic liquid fertilizer and Low bulb yield of onion
Thematic area:	INM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers practice
T2 –Recommended Practice-	75% RDF (NPK 75:60:100:) kg/ha + 1.5% Foliar spray of Banana pseudostem Organic Fertilizer at 30 and 45 DAT (Source – IGKV, Krishi Darshika – 2022)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	
Source of technology:	DOGR and NAU, Navsari
Characteristics of technology:	
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Soil Science 3

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of full package practices of natural farming in Finger millet
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Poor fertilizers use efficiency due to poor soil quality & high cost of cultivation

Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
T1 – Farmers Practice-	Broadcast of Finger millet & imbalance use of fertilizer
T2 –Recommended Practice-	1. Seed treatment with Bijamreet 2. Ghanjeevamrit@250kg/ha. at sowing time 3. Jivamreet at irrigation time or spraying of jivamreet @ 500 ltr/ ha 4. Mulching of crop residues & foliar spray of Nimastra & Bramhastra
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	
Source of technology:	Gurukul Institute Kurukshetra (Haryana)
Characteristics of technology:	
Name of Crop/Enterprises:	Finger millet
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Entomology 1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Integrated Pest Management for Rice panicle mite.
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Rice Panicle Mite is Newly Emerged infesting pest of Rice crop in recent years which causing 20 to 40% yield loss in Dhamtari district.
Thematic area:	IPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Conventional Insecticide/fungicide.
T2 –Recommended Practice-	Diafenthurone 50% WP@1.5g/lit + Propiconazole 25 E.C @ 1ml/liter, Balanced N Fertilizer, Proper Distance
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	
Source of technology:	PJTSAU Kampasagar, Telangana 2019-20
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Entomology 2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Integrated Pest Management for stem borer in Rice
Year/Season:	Rabi/ Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Stem borer is 2 nd Highest infesting insect of Rice crop in District after Brown plant hopper
Thematic area:	IPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Synthetic pyrethroids which build Insecticide Resistance
T2 –Recommended Practice-	Spinetoram 11.7% SC @ 375 ml/ha + Pheromone Trap 25/ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	
Source of technology:	IGKV 2019-20
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Entomology 3

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Integrated Pest Management for <i>Helicoverpa</i> in Chickpea
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Helicoverpa/Gram pod borer is Highest infesting insect of Chickpea crop in District
Thematic area:	IPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Chloropyriphos 50% + Cypermethrine 5% EC @ 1000 ml/ha
T2 –Recommended Practice-	T1- Use of Chloropyriphos 50% + Cypermethrine 5% EC @ 1000 ml/ha T2- Spinetoram 11.7% SC @ 375 ml/ha + Pheromone Trap 25/ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	
Source of technology:	TNAU 2019
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Fisheries 1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Fisheries
Title of on-farm trial:	Assessment of fish seed (Fingerling) production at seasonal pond
Year/Season:	Kharif 2024
Farming situation:	Rain fed
Problem diagnosis:	Lack of standard seed and no use of seasonal ponds for fish seed rearing
Thematic area:	Nursery Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of seasonal pond
T2 –Recommended Practice-	Stocking of fish seed catla, rohu, mrigal (50 Lakh/ha.) Application of mustard oil cake+ rice bran(1:1) Application of lime 200-250 kg/ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	
Source of technology:	CIFA
Characteristics of technology:	
Name of Crop/Enterprises:	Fish Seed
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Fisheries 2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Fisheries
Title of on-farm trial:	Assessment of air breathing fish culture (<i>Clarias batrachus</i>) in small shallow pond
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Lack of knowledge about high value fish i.e. Air breathing Fish Culture
Thematic area:	Air breathing fish culture
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No utilized small shallow pond
T2 –Recommended Practice-	Stocking of cat fish fingerling @ 50,000/ha. Pond Use of Ground nut oil cake + Rice bran (1:1) + Animal protein for feeding @ 5-3% body weight
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	
Source of technology:	CIFA ,Bhubaneswar
Characteristics of technology:	
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Agri Engineering 1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri. Engineering
Title of on-farm trial:	Assessment of Lotus rhizome harvester for minimizing the harvesting cost
Year/Season:	Kharif 2024
Farming situation:	-
Problem diagnosis:	-Lot of drudgery involve during the operation of harvesting for farm women and labours. -Harvesting of lotus rhizome manually by labors are very much time and high money involved operation. -Harvesting of lotus rhizome by traditional method does not yield

	complete production and chances of breakage of lotus rhizome are also high.
Thematic area:	Farm Mechanization
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Manually
T2 –Recommended Practice-	T1-Traditional method T2-Lotus rhizome harvester
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Lotus/ Rhizome
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Agri Engineering 2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri. Engineering
Title of on-farm trial:	Assessment of motor operated maize sheller
Year/Season:	Rabi 2024
Farming situation:	-
Problem diagnosis:	-Lot of drudgery involve during the operation of threshing for maize by farm women and labors. -Threshing of maize manually by labors are very much time and high money involved operation.
Thematic area:	Farm Mechanization
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Manually
T2 –Recommended Practice-	T1-Traditional method T2-Maize sheller
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	
Source of technology:	CIAE, Bhopal

Characteristics of technology:	
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: Plant Protection

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of IDM module for chickpea wilt complex management
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Heavy incidence of chick pea wilt complex
Thematic area:	IDM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Non judicious use of fungicide & pesticide
T2 –Recommended Practice-	T1 Farmers practice T2 Seed treatment with <i>Trichoderma</i> @ 10 g/kg + soil treatment with <i>Trichoderma</i> @ 5 kg/50 kg well rotten FYM
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Finger millet	Varietal evaluation	Use of HYV of finger millet	Indira ragi-1, Bio fertilizers	Kharif 2024	02	05	No. of tillers/plant, Panicle length, Yield (q/ha.), B:C ratio
2	Lathyrus	ICM	improved Utera (Relay cropping) technique in Lathyrus	Mahateora/ Prateek Bio fertilizer, Foliar application	Rabi 2024-25	02	05	No. of effective tillers, Yield (Q/ha), B:C ratio

				NPK (19:19:19)				
3	Rice	Varietal evaluation	Demonstration of Improved Rice Variety Vikram TCR	Rice Variety Vikram TCR	Kharif 2024	02	05	No. of Tillers/m ² , yield q/ha, B:C ratio
4	All seasonal vegetable	Income generation	Demonstration on Scientific Badi Cultivation for additional income generation through using farm resources.	Vegetable seeds	Kharif & Rabi 2024-25	01	05	Production of different crop (kg), B:C Ratio
5	Okra	Weed Management	Demonstration on weed management in Okra.	Pendimethal in 30% EC	Rabi 2024-25	01	05	Number of weeds/m ² , Yield (q/ha), B:C Ratio
6	Coriander	Varietal evaluation	Demonstration of High yielding variety of Coriander var. Chhattisgarh Shri Chandrahashni Dhaniya-2.	Coriander var. Chhattisgarh Shri Chandrahashni Dhaniya-2.	Rabi 2024-25	01	05	Yield (q/ha), B:C Ratio
7	Rice (Oryza sativa)	Soil Test Crop Response	Demonstration of Soil test based fertilizer management for targeted yield in Rice 50 q/ha	DAP, Neem coated urea, MOP, FYM	Kharif 2024	02	05	Plant height, No. of effective tillers/plant, Grain Yield (q/ha), B:C ratio
8	Green Gram (Vigna radiata)	INM	INM in Green Gram (Vigna radiata)		Kharif 2024	0.2	05	Plant height, No of branches /plant, No. of pods/plant, Yield (q/ha), B:C ratio
9	Kusumi Lac	Plant Protection	Spinosad 45 SC @ 0.44 ml/lt water for Manageent of <i>Eublemma amabilis</i>	Spinosad 45 SC 100 ml each Replication	Kharif 2024	05 farmer	05 (1 tree each farmer)	Yield/tree, Net Return (B:C ratio)
10	Kusumi Lac	Plant Protection	Spinosad 45 SC @ 0.44 ml/lt water for Manageent of <i>Eublemma amabilis</i>	Spinosad 45 SC 100 ml each Replication	Rabi 2024	05 farmer	05 (1 tree each farmer)	Yield/tree, Net Return (B:C ratio)
11	Rice	Farm Machinery	Demonstration of Inclined plate planter machine for sowing of rice by DSR technique.	Seed & Inclined plate planter	Kharif 2024	05 Farmers	05	Seed rate kg/ha, Operational cost Rs/ha, Yeild q/ha., no. of effective tillers/m ²
12	Rice	PHT	Demonstration of pedal cum power operated grain cleaner for cleaning of grains.	pedal cum power operated grain cleaner	Rabi 2024	-	10	Capacity kg/hr, cost of operation Rs/kg, Cleaning efficiency%
13	Fish	Integrated farming	Demonstration of fish cum	Fish seed & duckling	round the year	0.20 ha.	8	Yield of fish & duck, avg. body weight of

		system	duck culture (Integrated fish Culture)					duck , number of egg, B:C Ratio
14	Fish	Fish production	Demonstration on composite fish culture	Fish seed	round the year	0.40 ha.	8	Yield , B:C

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	02	March, August	60
2	Farmers Training	12	Feb.- Dec.	370
3	Media coverage	15	-	mass
4	Training for extension functionaries	10	Feb., March, June, July	360

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
-	-	-	-	-	-	-	-	-

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Pigeon pea	INM, ICM, IDM, IWM, IPM	Seed treatment, Improved seed, Pest Management	Seed, insecticide, Bio fertilizer, seed drill	Kharif 2024-25	20 ha	50	No. of Branches/plant, No. of pods/plant, yield q/ha, B:C ratio
2	Black gram	INM, ICM, IDM, IWM, IPM	Seed treatment, Improved seed, Pest Management	Seed, insecticide, Bio fertilizer, seed drill	Kharif 2024-25	20 ha	50	No. of Branches/plant, No. of pods/plant, yield q/ha, B:C ratio

3	Chickpea	INM, ICM, IDM, IWM, IPM	Seed treatment, Improved seed, Pest Management	Seed, insecticide, Bio fertilizer, Sulphur, seed drill	Rabi 2024-25	20 ha	50	No. of Branches/plant, No. of pods/plant, yield q/ha, B:C ratio
	Mustard	INM, ICM, IDM, IWM, IPM	Seed treatment, Improved seed, Pest Management	Seed, insecticide, Bio fertilizer, Sulphur, seed drill	Rabi 2024-25	20 ha	50	No. of Branches/plant, No. of pods/plant, yield q/ha, B:C ratio
	Linseed	INM, ICM, IDM, IWM, IPM	Seed treatment, Improved seed, Pest Management	Seed, insecticide, Bio fertilizer, Sulphur, seed drill	Rabi 2024-25	20 ha	50	No. of Branches/plant, No. of pods/plant, yield q/ha, B:C ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	8	Oct to Nov.and feb to March	1000
2	Farmers Training	8	June, July and Oct. Nov	750
3	Media coverage	23	Round the year	mass
4	Training for extension functionaries	10	July, September, October, January	400

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	02	02	30	10	40	20	5	25	65
Resource Conservation Technologies	02	02	40	15	45	15	10	25	70
Integrated Farming	05	05	90	40	130	45	20	65	195
Water management	03	03	45	20	65	20	5	25	90
Seed production	04	04	70	10	80	35	15	50	130
Integrated Crop Management	03	03	35	15	45	15	15	30	75
Total	19	19	310	110	405	150	70	220	625
II Horticulture									
a) Vegetable & fruit Crops	02	02	50	10	60	10	05	15	65
Off-season vegetables	02	02	45	10	55	20	10	30	85
Protective cultivation (Green	03	03	70	20	90	30	15	45	135

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Houses, Shade Net etc.)									
Total	07	07	165	40	205	60	30	90	285
b) Fruits									
Management of young plants/orchards	03	03	40	10	50	15	15	30	80
Total	03	03	40	10	50	15	15	30	80
c) Ornamental Plants	01	01	15	10	25	05	05	10	35
Total	01	01	15	10	25	05	05	10	35
d) Plantation crops	02	02	30	10	40	10	10	20	60
Total	02	02	30	10	40	10	10	20	60
e) Tuber crops	01	01	10	10	20	05	05	10	30
Total	03	03	40	20	60	15	15	30	90
f) Spices									
Production and Management technology	01	01	15	10	25	05	05	10	35
Total	01	01	15	10	25	05	05	10	35
g) Medicinal and Aromatic Plants	01	01	20	30	10	05	03	08	38
Production and management technology	01	01	20	30	10	05	02	07	37
Total	02	02	40	60	20	10	05	15	75
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management	05	05	20	10	30	10	05	15	45
Soil and Water Conservation	01	01	10	05	15	05	05	10	25
Integrated Nutrient Management	04	04	40	20	60	10	05	15	80
Production and use of organic inputs	02	02	20	05	25	03	02	05	30
Management of Problematic soils	03	03	40	20	60	10	05	15	75
Micro nutrient deficiency in crops	02	02	20	05	25	20	10	30	55
Nutrient Use Efficiency	01	01	10	05	15	05	0	05	20
Soil and Water Testing	02	02	20	10	30	10	05	15	45
Total	20	20	180	80	260	73	37	110	375
IV Livestock Production and Management									
Dairy Management	02	02	30	15	45	05	05	10	55
Poultry Management	02	02	35	10	45	10	05	15	60
Disease Management	01	01	20	05	25	5	3	8	33
Feed management	03	03	65	20	85	15	5	20	105
Production of quality animal	03	03	60	20	80	20	10	30	120

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST			Grand Total	
			Male	Female	Total	Male	Female	Total		
products										
Total	11	11	210	70	280	55	28	83	373	
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	02	02	30	10	40	15	5	20	60	
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	
Designing and development for high nutrient efficiency diet	02	02	30	15	45	5	5	10	55	
Minimization of nutrient loss in processing	01	01	15	5	20	5	5	10	30	
Gender mainstreaming through SHGs	01	01	15	5	20	5	5	10	30	
Value addition	03	03	35	20	35	10	05	15	50	
Income generation activities for empowerment of rural Women	03	03	40	10	50	20	10	30	70	
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	
Women and child care	-	-	-	-	-	-	-	-	-	
Total	12	12	165	65	210	60	35	85	295	
VI Agril. Engineering										
Total	03	03	75	10	85	20	10	30	115	
VII Plant Protection										
Integrated Pest Management	06	06	90	15	105	30	10	40	145	
Integrated Disease Management	02	02	42	05	47	15	20	35	82	
Bio-control of pests and diseases	02	02	30	5	35	5	5	10	45	
Production of bio control agents and bio pesticides	01	01	20	5	25	6	6	12	37	
Total	11	11	182	30	212	56	41	97	309	
VIII Fisheries										
Integrated fish farming	03	03	60	20	80	15	05	20	100	
Total	03	03	60	20	80	15	05	20	100	
IX Production of Inputs at site										
Vermi-compost production	05	05	90	40	130	30	15	10	25	155

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Capacity building for ICT application											
Livestock feed and fodder production	02	02	35	16		51	12	7		19	70
Production and use of organic inputs											
Gender mainstreaming through SHGs											
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-		
TOTAL	05	05	80	25	95	35	35	20		55	160

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	03	03	35	15	45	10	5	15	60
Resource Conservation Technologies	02	02	41	26	67	13	9	22	89
Cropping Systems	01	01	30	12	42	19	8	27	69
Crop Diversification	02	02	25	10	35	5	5	10	45
Integrated Farming	01	01	22	9	31	14	8	22	53
Water management									
Seed production	01	01	20	10	30	05	05	10	40
Nursery management									
Integrated Crop Management	02	02	15	05	20	10	5	15	35
Fodder production	02	02	24	15	39	11	6	17	56
Production of organic inputs									
Total	08	08	95	40	130	30	20	50	180
II Horticulture									
a) Vegetable Crops									
Nursery raising	02	02	25	05	30	5	5	10	40
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)									
b) Fruits									
Cultivation of Fruit	01	01	15	5	20	5	5	10	30
Management of young plants/orchards									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants	01	01	20	5	25	5	5	10	35

Total	-	-	-	-	-	-	-	-	-
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management	01	01	25	10	35	5	5	10	45
Integrated Disease Management	02	02	30	15	45	5	5	10	55
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
VIII Fisheries	05	05	85	32	117	8	5	13	130
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development									
Group dynamics									
Formation and Management of SHGs	02	02	25	5	30	15	5	20	50
Mobilization of social capital	01	01	20	10	30	5	5	10	40
Entrepreneurial development of farmers/youths									
WTO and IPR issues									
XI Agro-forestry	01	01	15	5	20	5	5	10	30
XII Others (Pl. Specify)									
TOTAL	07	07	115	45	160	35	25	60	220
(B) RURAL YOUTH									
Production of organic inputs	02	02	20	5	25	5	5	10	35
Sheep and goat rearing									
TOTAL	02	02	20	5	25	5	5	10	35
(C) Extension Personnel	01	01	15	5	20	5	5	10	30
TOTAL	01	01	15	5	20	5	5	10	30

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
February, July, September, November	-	Crop Production & Management	04	65	30	95	15	5	20	115
Horticulture										
February, July, November, December	-	Horticulture	05	60	25	85	20	5	25	110
Livestock production/ Fisheries										
March, July, November. December	-	Livestock Production/Fisheries	05	70	18	98	25	5	30	128
Home Science	-	-	-	-	-	-	-	-	-	-
Plant Protection										
February, March, July, November. December	-	Plant Protection	06	75	35	110	20	10	30	140
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
May, February, March, July, November. December	-	Plant Protection	05	60	30	90	15	5	20	110

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July, December	-	Crop	04	60	30	90	10	5	15	105

Vocational Training Programme for Rural Youth:

[illegible]

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/RY/EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	-	Crop Production	01	-	01	15	5	10	5	25	10	35	-
2	-	INM	01		01	20	10	5	5	25	15	40	-
3	-	ICM	01		01	15	5	5	5	20	10	30	-
4	-	Fisheries	01		01	20	5	5	5	25	10	35	-
5	-	Livestock	01		01	15	10	10	5	25	15	40	-
6	-	Soil Science	01		01	20	5	5	5	25	10	35	-
7	-	Plant Protection	01		01	20	10	5	5	25	15	40	-

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	02	50	5	55	10	5	15	60	20	80
Kisan Mela	01	25	5	30	5	3	8	30	8	38
Kisan Ghosthi	12	410	50	460	14	5	19	424	55	479
Exhibition	15	155	60	215	16	4	20	171	20	191
Film Show	15	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Method Demonstrations	-	-	-	-	-	-	-	-	-	-
Farmers Seminar	02	30	10	40	5	3	8	35	13	48
Workshop	8	145	40	185	15	5	20	165	45	210
Group meetings	07	45	12	57	5	3	8	50	15	65
Lectures delivered as resource persons	35	110	35	145	10	5	15	120	50	170
Newspaper coverage	50	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Radio talks	15	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
TV talks	12	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Popular articles	-	-	-	-	-	-	-	-	-	-
Extension Literature	-	-	-	-	-	-	-	-	-	-
Advisory Services	30	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Scientific visit to farmers field	35	45	5	50	4	3	7	48	8	56
Farmers visit to KVK	18	75	20	95	5	3	8	80	23	103
Diagnostic visits	25	35	10	45	8	3	11	53	13	66
Exposure visits	10	45	10	55	5	3	8	50	13	63
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	10	85	20	105	10	3	13	90	23	113
Animal Health Camp	03	25	10	35	8	3	11	33	13	46
Agri mobile clinic	03	30	10	40	8	3	11	38	13	51
Soil test campaigns	02	20	15	35	5	5	10	25	20	45
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	09	210	35	245	40	5	45	250	40	290
Others (pl. specify)	03	40	10	50	5	5	10	45	15	60

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Total	322	1550	352	1902	173	59	232	1723	411	2134

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	CG Devbhog	300
OILSEEDS	-	-	-
PULSES	-	-	-
VEGETABLES	-	-	-
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Red Lady	2000
	Water chestnut	Red type	20000
SPICES	-	-	-
VEGETABLES	Lotus	Local	20000
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	Makhana	Swarna Vaidehi	100000
Others (specify)	-	-	-

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	viridie	-	500
2	Rhizobium	-	-	-
3				
BIOFERTILIZERS				

1	Vermicompost	<i>Eisenia foetidae</i>	-	5000 kg.
2	NADEP	-	-	-
3				
BIO PESTICIDES				
1	Dasparni arkl	-	-	-
2	Pesticides	-	-	-
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Cow	Sahiwal	01	
GOAT	Goat	Jamuna Pari	7	-
POULTRY	Hen/cock	Kadaknath	73	100 kg.
FISHERIES	IMC	Rohu,Kutla, Mrigal	6000	3000 kg.
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
-	-	-

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	-	-	-
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	-
2	Rural Youth	-
3	In-service personnel	-
4	methodology for identifying OFTs/FLDs	-
5	Matrix ranking	-

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Achhota	Dhamtari	12
2	Rakhi	Kurud	22
3	Bangar	Kurud	19
4	Rawanguda	Kurud	38
5	Dhuma	Kurud	36
6	Darra	Kurud	38
7	Bodra	Dhamtari	02
8	Kandel	Dhamtari	08
9	Udena	Dhamtari	12
10	Tarshiwa	Dhamtari	15
11	Angara	Kurud	15
12	Dahi	Kurud	20
13	Kharenga	Dhamtari	17
14	Sounga	Magarload	35
15	Mohandi	Magarload	30
16	Gopalpuri	Dhamtari	12
17	Ratawa	Nagari	65
18	Parsathhy	Kurud	29
19	Sakri	Kurud	32
20	Sankara	Dhamtari	04

1. No. of farm families selected per village :

2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2014

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Flame photometer	01	Good
2	Double beam Spectrophotometer	01	Good
3	Kelplus Nitrogen Analysis	01	Good
4	Minisoil testing (Mridaparikshak)	01	Good
5	Soil Testing Lab	01	Good
6	Micro processor pH Meter	01	Good
7	Water Analysis Kit	01	Good
8	EC Meter	01	Good
9	Double Distillation unit	01	Good
10	Kelplus soil & plant digestion unit	01	Good

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	1000	1000	220	300000.00
Water Samples	100	100	100	30,000.00
Total	1050	1050	320	3,30,000.00

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
CIFA	Technical guidance & Trainings
Manage	Training
Department of Agriculture, C.G. Govt.	Training
Department of Horticulture, C.G. Govt.	Training
Department of Animal Husbandry, C.G. Govt.	Training
Department of Fisheries, C.G. Govt.	Training
BARODA RSETI	Training
NRLM	Training

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
Training	Training
Demonstration	Demonstration

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Recondition National Bamboo Mission (RNBM), Bamboo Big Nursery	Establishment of Big nursery and preparation of planting material of Bamboo.
Small Nursery of Fruit crop	Establishment of Small Fruit crop nursery and preparation of different fruit crop planting material.

Action plan for Flagship programmes implemented at KVK (NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes – Natural Farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
July-August	Demonstration	8
Jan- Dec	Awareness programme	1500
Jan- Dec	Training programme	200

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 1000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	CG Devbhog	135-140 Days, 40-45 q/ha	200
		Vishnubhog Sel. 1	130-135 Days, 35-40 q/ha	200
		Dubraj Selection-1	135-140 Days, 20-25 q/ha	200
		Vikram TCR	120-125, 55-60 q/ha	200
Chickpea	Rabi	Indira Chana -2	90-105 Days, 18-20 q/ha	200
Chickpea		Indira Chana -1	125-130 Days, 13-15 q/ha	200
Linseed		RLC-148	115-120 Days, 5-6 q/ha	200
Lathyrus		Maha Tiwda	100-115 Days 15-16 q/ha	200

Details of Demonstration Unit at KVK Dhamtari

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermi compost Unit	25 tank	274.25 m ²	375.00 q
Mushroom Production Unit	50 Bag	25 m2	100 kg
Duckry Unit	65 Nos.	30 m2	150 Nos.
Goatry Unit	7 Nos.	50 m2	-
Poultry Unit	73 Nos.	30 m2	100 Kg.
Fish Pond	6000 Fingerlings	4000 m2	3.00 q.

ANNUAL ACTION PLAN 2024

KVK Durg-I (Anjora)

Year of sanction: 1994

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. V.N. Khune		9424281260	kvkanjora@gmail.com / doc_vik@rediffmail.com

1.2 Staff Position on (31th Dec.2023)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. V.N. Khune	Sr. Scientist & Head (I/c)	LPM	15600-39100+7000		2018	9424281260	kvkanjora@gmail.com / doc_vik@rediffmail.com	
2	Subject Matter Specialist	Dr. S.K. Thapak	Subject Matter Specialist	Plant Pathology	56100-177500	06/09/2012	2012	9424257393	thapaksk73@gmail.com	
3	Subject Matter Specialist	Shri U.K. Patel	Subject Matter Specialist	Soil-Science	56100-177500	06/09/2012	2012	9893366562	umeshharsh111@gmail.com	
4	Subject Matter Specialist	Shri R.L. Sahu	Subject Matter Specialist	Horticulture	56100-177500	07/09/2012	2012	9826679747	roshanagri@rediffmail.com	
5	Subject Matter Specialist	Vacant	Subject Matter Specialist	-	-	-	-			
6	Subject Matter Specialist	Dr. Nisha Sharma	Subject Matter Specialist	Home Science	56100-177500	15/11/2016	2016	7974308981	nsharma1418@gmail.com	
7	Subject Matter Specialist	Dr. R.K. Gadpayle	Subject Matter Specialist	LPM	8000-275-13500	03/08/2015	2015	9406078752	dr.raj1606@gmail.com	
8	Programme Assistant	Vacant	Programme Assistant	-	-	-	-			
9	Computer Programmer / Programme Assistant	Smt. Soniya Khalkho	Programme Assistant (Comp.)	Computer	35400-112400	12/09/2012	2012	7415529057	Soniya405@gmail.com	
10	Farm Manager	Vacant	Farm Manager	-				-	-	
11	Assistant	Shri Madanlal Deshmukh	Assistant	-	38600-91300	08/06/1989		9926244836		
12	Jr. Stenographer / Comp. Operator	Shri V.K. Upadhyay	Jr. Stenographer / Comp. Operator	-	25300-80500		2016	9406240064		
13	Driver	Vacant	Driver	-	-	-	-	-		
14	Driver	Shri Govinda	Driver	-	5200-20200+19	01/04/2013	2013	7049616458		

		Sahu			00					
15	Supporting staff	Vacant	Supporting staff	-	-		-			
16	Supporting staff	Vacant	Supporting staff	-	-		-			

1.3 Total land with KVK (in ha): 50.6 ha

S. No.	Item	Area (ha)
1	Under Buildings	7.46
2	Under Demonstration Units	2.0
3	Under Crops	25.0
4	Orchard/Agro-forestry	2.54
5	Others (specify)	13.6 fallow land
Total		50.6

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2005					Poor condition
2	Farmers Hostel	ICAR						Good condition
3	Staff Quarters (6)							
4	Demonstration Units (2)	ICAR				2012	10.8	Damage
5	Fencing		2012					Damage
6	Rain Water harvesting system							
7	Threshing floor		2007	2500				Damage
8	Farm godown							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2012	160000	200	Running condition
Tractor	2015	860000	2000	Running condition
Motor Cycle 2	2010		1,47,816	Working
Bolero(Jeep)	2019	779552	60680	working
Other (Pl. specify) Tractor Trolley	2005	80000	-	Damage

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2016	71274	Working
Xerox Machine	2016	99995	Working
Computer, Laser Printer	2008(ERNET), 2022	1,15,900	3 repairable, 2 working
Colorimeter	2006		Damage
Phamphotometer	2006		Damage
Electrical balance	2006		Damage
pH meter	2006		Damage
Electrical conductivity meter	2006		Damage
Nitrogen distrillation unit	2006		Damage

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	
2	

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	
2	AES – 2	
3	AES – 3	
4		
5		
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	
2	AES - 2	
3	AES – 3	
4	AES – 4	
5	AES – 5	
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	870.1
Forest	99.6
Waste Land	12.73
Other than cultivated area	41.11
Cultivable waste and alkaline land	11.01
Pastures	61.4
Bushes	-
Current Fallow	14.7
Other Fallow	18.9
Agricultural Land	90.7
Area Sown	548.3
Kharif	145.33
Rabi	59.91
Zaid	-
Cropping Intensity	141%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	65130
2	Well	241
3	Tube well	44920
4	Ponds	751
5	Others	4100

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Entisol (Bhata-gravelly)		81.1
2	Inceptisol (Matasi-Sandyloam)		114.8
3	Alfisols (Dorsa-clayloam)		95.7
4	Vertisols (Kanhari-clayey)		157.5
5	Bharri		92.5

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
1.	Rice	439.6	732.1	2239
2.	Soybean	0.2	24.3	865
3.	Blackgram	0.7	3.5	409
4.	Pigeonpea	90.9	13.5	672
5.	Groundnut	1.1	2.9	1434
6.	Wheat	21	21.7	1032
7.	Lathyrus	209.9	42.6	445
8.	Chickpea	1.2	107.7	1185
9.	Mango	2.7	9.3	3400
10.	Banana	1.9	61.8	32000
11.	Papaya	1.2	48.2	40000
12.	Gauva	0.8	6.1	7500
13.	Lemon	0.4	2.4	6000
14.	Ber	0.1	1.5	10500
15.	Cluster beans	1.5	11.3	7500
16.	Bhindi	4.3	38.9	9000
17.	Onion	1.4	39.2	28000
18.	Potato	2.2	48.6	24000

19.	Bottle gourd	2.5	64	25000
20.	Cabbage	4.6	83.5	18000
21.	Brinjal	5.1	87.2	17000
22.	Cauliflower	4.8	96.9	20000
23.	Tomato	6.9	209.3	30000

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	14	26.7	13.2
Feb. 2023	10	30.4	16.5
Mar. 2023	13	34.9	20.5
Apr. 2023	14	39.4	25.3
May. 2023	20	41.4	28.6
Jun. 2023	203	35.7	27.2
July. 2023	390	29.7	34.5
Aug. 2023	358	29.2	24.1
Sept. 2023	223	30.3	23.7
Oct. 2023	60	30.4	21.0
Nov. 2023	10	28.6	16.9
Dec. 2023	8	26.5	13.6

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>		 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>		 MT wool	 kg
Goats		 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>		---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	q/ month	 q/ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Bori	Dhamdha	Purada	Paddy, Gram	Imbalanced use of fertilizer	INM
2	Durg	Durg	Belaudi	Paddy, wheat, Gram	High amount use of fertilizer	Nutrient management
3	Durg	Durg	Pisegaon	Summer Greengram	Low yields of Summer due to incidence of yellow mosaic virus	Integrated Disease Management
4	Durg	Durg	Beloudi	Rice	Yield loss due to infestation of disease and pest like BPH, stem borer sheath blight etc.	Integrated Pest Management
5	Durg	Durg	Borai	Chickpea	Low yield of crop between 30-40% due to incidence of fungal disease.	Integrated Disease Management
6	Durg	Durg	Belodi	Onion	Low yield of local variety in late kharif/ pre rabi and low market price during harvest time of rabi	Varietal replacement
7	Dhamdha	Dhamdha	Purda,	Tomato	Physiological disorder due to no	Integrated

			Chicha		use of Micronutrient	nutrient management
8	Dhamdha	Dhamdha	Litiya	Okra	Low yield of Okra due to nutrition deficiency, sucking pests and root rot incidences Lack of awareness about bio fertilizers and bio agents	Integrated crop management

Priority / Thrust areas

S. No.	Particulars
1.	Integrated Pest Management
2.	Integrated Disease Management
3.	Varietal replacement
4.	Integrated nutrient management
5.	Integrated crop management
6.	Income generation
7.	Nutritional security
8.	Value addition

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants

Seed Production (Qtl.)	Planting material (Nos.)
250	

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enter prise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Trainin g if any	Title of traini ng for extens ion perso nnel if any	Extens ion activit ies	Supply of seeds, planting materials etc.
1	IDM	Rice	Heavy loss due to bacterial leaf blight of rice, effecting in a yield loss of up to 30-40 % observed	Assessment of bacterial leaf blight (BLB) in transplanted rice	Assessment of IPM practices for management of yellow mosaic disease in Summer Greengram	IDM in rice	IPM in kharif crop	Field day	Chemical fungicide & YST
2	IDM	Chick pea	Low yield of crop between 30-40% due to incidence of color rot disease.	Assessment of seed treatments for management of color rot disease in Chickpea	Assessment of cow urine based botanical pesticide for control of major pest in rice	IDM in Chickpe a	IPM in rabi crop	Field day	Cow urine based botanical pesticide & Bio-agent
3	Varieta l replace ment	Onion	Low yield of local variety in late kharif/ pre rabi and low market price during harvest time of rabi	Assessment of kharif onion varieties	Demonstration of Vertical gardening techniques and foliar application of Boron to increase the productivity of Bottle gourd	-	-	Field day	Micronurti ent
4	Integrat ed nutrient manage ment	Tomat o	Physiological disorder due to no use of Micronutrient	Assessment of different Micronutrient formulations in Tomato	Demonstration of humic acid and zinc sulfate on keeping quality and yield of tomato	-	-	Field day	humic acid and zinc sulfate
5	Integrat ed crop manage ment	Okra	Low yield of Okra due to nutrition deficiency, sucking pests and root rot incidences Lack of awareness about bio fertilizers and bio agents.	Assessment of Integrated crop management technologies					
6	Nutriti on security	Morin ga leaves powde r +tomat o powde r	Wide prevalence of anemia among adolescent girls	Assessment of Iron rich soup powder for anemic adolescent girls	Demonstration of Nutritional garden for household nutrition security	Protein and energy rich diet .	-	Field day	Soup powder
7	Nutriti on security	Morin ga leaves powde r +goose berry	Lack of knowledge about moringa leaves powder processing	Assessment of Sensory evaluation of moringaprash among farm women	Demonstration of Oyster mushroom value added products at household		-	Field day	-
8	Income generati	CR Dhan-	Low income of farm families	Assessment of income enhancement through		Processi ng of	-	-	-

	on	310 rice +tomato powder		CR Dhan-310 rice papad with tomato flavor		rice papad.			
9	Value addition	Elephant foot - yam	Lack of knowledge about yam processing	Assessment on processing of Yam Pickle making .	-	Processing of yam pickle	-	--	-

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tube r Crops	TOTAL
IDM	01		01							02
Nutritional garden-FLD	-	-	-	-	Seasonal vegetables	-	-	-	-	01
Value addition-FLD	-	-	--	-	Ouster mushroom S	-	-	-	-	01
Nutritional security - OFT	-	-	-	-	Dried Moringa leaves and Tomato powder	Gooseberry	-	-		02
Income generation	CR-310 rice									01
Value addition									Yam	01
Varietal replacement					Assessment of kharif onion varieties					1
Integrated nutrient management					Assessment of different Micronutrient formulations in Tomato					1
Integrated crop management					Assessment of Integrated crop management technologies					1

					s					
TOTAL										

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)

OFT-1 (Soil Science)

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of INM module for improving soil health	
Problem diagnosed	Use of imbalanced fertilizer	
Farmers' Practices	Use of Chemical fertilizer	
Details of technologies selected for assessment	T ₁	Organic manure 25% + 75% chemical fertilizer
	T ₂	Organic manure 75% + 25% chemical fertilizer
	T ₃	Organic manure 30% + PSB+ 50% chemical fertilizer
Source of technology	IGKV, Raipur	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	35000	
Critical input	Vermi compost	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	Yield q/ha, B:C Ratio, organic carbon (%)	

OFT-2 (Soil Science)

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of Natural Farming for improving soil Organic carbon	
Problem diagnosed	No use of organic manure	
Farmers' Practices	Use of Chemical fertilizer	
Details of technologies selected for assessment	T ₁	Beejamrit+ Jeevamrit 1500 L/ ha + Ghanjeevamrit 8 qt per ha
	T ₂	Beejamrit+Jeevamrit 2000 L/ha + Ghanjeevamrit 12 qt per ha
	T ₃	-
Source of technology	Gurukul, Kurukshetra 2022	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	Rs. 22000	
Critical input	Ghanjeevamrit, Drum, Jiggery, Besan etc.	
Performance indicators: (v) Growth and Yield attributes (vi) Technical- yield (q/ ha) (vii) Economic (viii) Social – Employment generation	No of Tillers /plant, yield q/ha, B:C Ratio, organic carbon (%)	

OFT-3 (Soil Science)

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of Natural Farming for improving soil Organic carbon
Problem diagnosed	No use of organic manure

Farmers' Practices	Use of Chemical fertilizer	
Details of technologies selected for assessment	T ₁	Jeevamrit 1500 L. per ha + Ghanjeevamrit 8 qt per ha
	T ₂	Jeevamrit 2000 L. per ha + Ghanjeevamrit 12 qt per ha
	T ₃	-
Source of technology	Gurukul, Kurukshetra 2022	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	Rs. 24000	
Critical input	Ghanjeevamrit, Drum, Jiggery, Besan etc.	
Performance indicators: (ix) Growth and Yield attributes (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	No of Tillers /plant, yield q/ha, B:C Ratio, organic carbon (%)	

OFT-4 (Plant Protection)

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of bacterial leaf blight (BLB) in transplanted rice	
Problem diagnosed	Heavy loss due to bacterial leaf blight of rice, effecting in a yield loss of up to 30-40 % observed	
Farmers' Practices	Indiscriminate use of chemicals without proper way	
Details of technologies selected for assessment	T ₁	Seed treat with bleaching powder (100g/l) followed by application of bleaching powder (5kg/ha) with irrigation water & spray fresh cow dung extract @ 20g/l at fortnightly interval
	T ₂	Foliar spray of copper fungicide (0.2%) with strepto cycline (250 ppm)
Source of technology	TNAU, 2015	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	Rs. 22000/-	
Critical input	Chemical fungicide	
Performance indicators: (xiii) Growth and Yield attributes (xiv) Technical- yield (q/ ha) (xv) Economic (xvi) Social – Employment generation	Disease incidence (%) Yield (qt/ha) B:C ratio 180	

OFT-5 (Plant Protection)

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of seed treatments for management of collar rot disease in Chickpea	
Problem diagnosed	Low yield of crop between 30-40% due to incidence of fungal disease.	
Farmers' Practices	No use of any seed treatments	
Details of technologies selected for assessment	T ₂	Seed treatment with <i>Trichoderma harzianum</i> @ 6gm/kg of seed + Soil incorporation of <i>Trichoderma harzianum</i> inoculums @ 3 kg mix with 100 kg Vermicompost
Source of technology	IGKV, Raipur 2017	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	Rs. 22000/-	
Critical input	Bio-agent	
Performance indicators: (xvii) Growth and Yield attributes (xviii) Technical- yield (q/ ha) (xix) Economic (xx) Social – Employment generation	Disease incidence (%) Yield (qt/ha) B:C ratio 150	

OFT- 6 (Horticulture)

Crop / Enterprise	Tomato	
Title of on farm trial	Assessment of Integrated Nutrient Management in Tomato	
Problem diagnosed	Imbalance dose of fertilizer (More N & less P & K).	
Farmers' Practices	Use of more N & less P & K fertilizers.	
Details of technologies selected for assessment	T ₁	FYM 5 tons / ha & inoculation of bio-fertilizer @ 4 kg. each of Azotobacter, Azospirillum & PSB per ha.+ 75% of soil test based fertilizer (STBF)
	T ₂	FYM 5 tons / ha & inoculation of bio-fertilizer @ 4 kg. each of Azotobacter, Azospirillum & PSB per ha.+ 100% of STBF.
Source of technology	OUAT	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	12000/-	
Critical input	P & K fertilizers	
Performance indicators: (xxi) Growth and Yield attributes (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	no. of fruits / plant & yield (Q / ha), net return, BC ratio	

OFT- 7 (Horticulture)

Crop / Enterprise	Tomato	
Title of on farm trial	Assessment of performance of Micronutrient formulations in tomato	
Problem diagnosed	Physiological disorder due to no use of Micronutrient	
Farmers' Practices	Application of macronutrients alone	
Details of technologies selected for assessment	T ₁	TNAU Micronutrient liquid (Liquid formulation of micronutrient, to be applied as foliar application (10 ml / litre) during 45th, 60th 90th and 120th day after planting)
	T ₂	IIHR Vegetable special (Powder formulation of micronutrient, to be applied as foliar application (3 gram / litre) during 45th, 60th 90th and 120th day after planting)
	T ₃	-
Source of technology	IIHR, Bangalore and TNAU, Coimbatore	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	Rs. 14000	
Critical input	Micronutrients	
Performance indicators: (xxv) Growth and Yield attributes (xxvi) Technical- yield (q/ ha) (xxvii) Economic (xxviii) Social – Employment generation	No. Of fruit/plant, pest and disease incidence, yield and yield attributes, economics	

OFT- 8 (Horticulture)

Crop / Enterprise	Okra	
Title of on farm trial	Assessment of Integrated crop management technologies	
Problem diagnosed	Low yield of Okra due to nutrition deficiency, sucking pests and root rot incidences Lack of awareness about bio fertilizers and bio agents.	
Farmers' Practices	No application of bio fertilizers and bio agents	
Details of technologies selected for assessment	T ₁	Soil test based fertilizer recommendation, Soil application of bio fertilizers and arka consortia (4kg/acre), Foliar spraying of IIHR vegetable special (4kg/acre)
	T ₂	Neem cake –50 kg / acre (2 splits at planting and 30 DAP); Yellow sticky traps 12 nos / acre; Neem oil @ 0.3 %

Source of technology	TNAU
Plot size	0.4 ha
No. of farmers	04
Total cost	15000/-
Critical input	Micronutrients, Yellow sticky traps, Pheromone traps
Performance indicators: (xxix) Technical- yield (q/ ha) (xxx) Economic (xxxi) Social – Employment generation	No. Of fruit/plant, Yield (q/ha) ,Sucking pest infestation/ m ² , Yield, B:C Ratio

OFT -9 (Animal Science)

1	Enterprise	Osmanabadi Goats
2	Title of on-farm trial	Assessment of Performance of Osmanabadi Breeding buck
3	Problem diagnosed	Low prolificacy of local breeding bucks
4	Farming situation	Low prolificacy of local breeding bucks
5	Production system and thematic area	Livestock Production Management
6	Farmers' practices	Use of Local breeding buck
7	Details of technologies selected for assessment/refinement Treatments	T ₁ - Use of local Breeding buck T ₂ . Use of Osmanabadi Breeding buck
8	Source of technology	DSVCKV Durg
9	No. of animals	36
10	No. of farmers	04
11	Critical input	Osmanabadi Breeding buck
12	Cost of input	Rs. 36000
13	Total cost	Rs. 40000
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Sex ratio, Litter size at birth, Birth weight of kid (kg), Kidding interval (days), Fertility rate (%), Prolificacy rate (%), Kidding rate (%)

OFT - 10 (Animal Science)

1	Enterprise	Sonkukri chicken
2	Title of on-farm trial	Assessment of F1 generation of Sonkukri (native male x PB2 female) chicken
3	Problem diagnosed	Slow growth of native chicken
4	Farming situation	Semi Intensive
5	Production system and thematic area	Poultry production & management
6	Farmers' practices	Rearing of native chicken
7	Details of technologies selected for assessment/refinement Treatments	T ₁ - Rearing of native chicken T ₂ . Rearing of F1 generation of Sonkukri (native male x PB2 female) chicken
8	Source of technology	DSVCKV Durg
9	No. of animals	120 (30 each)
10	No. of farmers	04

11	Critical input	Sonkukri (native male x PB2 female) chicken
12	Cost of input	Rs. 3600/-
13	Total cost	Rs. 4200/-
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Monthly Body weight up to 20 weeks, Mortality rate

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of INM for improving soil health
Year/Season:	Kharif-2024
Farming situation:	Irrigated
Problem diagnosis:	Use of imbalanced fertilizer
Thematic area:	INM
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Chemical fertilizer
T2 –Recommended Practice-	Organic manure 25% + 75% chemical fertilizer
T3- Recommended Practice-	Organic manure 75% + 25% chemical fertilizer
Date of sowing:	5.7.2424
Date of harvesting:	10.10.24
Source of technology:	IGKV, Raipur
Characteristics of technology:	improving soil health
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	Better to increasing microorganism
Recommendations for Deptt. Personnel	Very good to improve soil health
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Natural Farming for improving soil Organic carbon
Year/Season:	Kharif-2024

Farming situation:	Irrigated
Problem diagnosis:	No use of organic manure
Thematic area:	NM
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Chemical fertilizer
T2 –Recommended Practice-	Beejamrit+ Jeevamrit 1500 L/ ha + Ghanjeevamrit 8 qt per ha
T3- Recommended Practice-	Beejamrit+Jeevamrit 2000 L/ha + Ghanjeevamrit 12 qt per ha
Date of sowing:	5.7.2424
Date of harvesting:	10.10.24
Source of technology:	Gurukul, Kurukshetra 2022
Characteristics of technology:	improving soil health
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	Better to increasing to verm
Recommendations for Deptt. Personnel	Very good to improve in microorganism
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Natural Farming for improving soil Organic carbon
Year/Season:	Rabi-2023-24
Farming situation:	Irrigated
Problem diagnosis:	No use of organic manure
Thematic area:	NM
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Chemical fertilizer
T2 –Recommended Practice-	Jeevamrit 1500 L. per ha + Ghanjeevamrit 8 qt per ha
T3- Recommended Practice-	Jeevamrit 2000 L. per ha + Ghanjeevamrit 12 qt per ha
Date of sowing:	25.11.2024
Date of harvesting:	10.4.2025
Source of technology:	Gurukul, Kurukshetra 2022
Characteristics of technology:	improving soil health
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	Better to increasing microorganism
Recommendations for Deptt. Personnel	Very good to improve soil health
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of bacterial leaf blight (BLB) in transplanted rice
Year/Season:	2024/Kharif
Farming situation:	Low land
Problem diagnosis:	Heavy loss due to bacterial leaf blight of rice, effecting in a yield loss of up to 30-40 % observed
Thematic area:	Integrated disease management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of chemicals without proper way
T2 –Recommended Practice-	Seed treat with bleaching powder (100g/l) followed by application of bleaching powder (5kg/ha) with irrigation water & spray fresh cow dung extract @ 20g/l at fortnightly interval
T3- Recommended Practice-	Foliar spray of copper fungicide (0.2%) with strepto cycline (250 ppm)
Date of sowing:	25/07/2024 (Aprox)
Date of harvesting:	28/11/2024 (Aprox)
Source of technology:	IGKV, 2013
Characteristics of technology:	Effective against bacterial leaf blight disease
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of seed treatments for management of Collor rot in Chickpea
Year/Season:	2024/Rabi
Farming situation:	Midland
Problem diagnosis:	Low yield of crop between 30-40% due to incidence of fungal disease
Thematic area:	Integrated disease management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	

T1 – Farmers Practice-	No use of any seed treatments
T2 –Recommended Practice-	Seed treatment with Trichoderma @ 6gm/kg of seed
T3- Recommended Practice-	Seed treatment with Burn Engine oil @ 10 ml/kg of seed
Date of sowing:	30/11/2024 (Aprox)
Date of harvesting:	30/03/2024 (Aprox)
Source of technology:	IGKV, Raipur / ICAR-NCIPM, New Delhi, 2017
Characteristics of technology:	Economically cheap
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Integrated Nutrient Management in Tomato
Year/Season:	Kharif-2024
Farming situation:	Mid land
Problem diagnosis:	Imbalance dose of fertilizer (More N & less P & K).
Thematic area:	Integrated Nutrient Management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of more N & less P & K fertilizers.
T2 –Recommended Practice-	FYM 5 tons / ha & inoculation of bio-fertilizer @ 4 kg. each of Azotobacter, Azospirillum& PSB per ha.+ 75% of soil test based fertilizer (STBF)
T3- Recommended Practice-	FYM 5 tons / ha & inoculation of bio-fertilizer @ 4 kg. each of Azotobacter, Azospirillum& PSB per ha.+ 100% of STBF.
Date of sowing:	-
Date of harvesting:	-
Source of technology:	OUAT
Characteristics of technology:	Suitable for kharif season, duration-100-110 days, Yield potential- 20-22 t/ha.
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries	Horticulture

etc)	
Title of on-farm trial:	Assessment of performance of Micronutrient formulations in tomato
Year/Season:	Rabi 2024-25
Farming situation:	Upper low land
Problem diagnosis:	Physiological disorder due to no use of Micronutrient
Thematic area:	Nutrient management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of macronutrients alone
T2 –Recommended Practice-	TNAU Micronutrient liquid (Liquid formulation of micronutrient, to be applied as foliar application (10 ml / litre) during 45th, 60th 90th and 120th day after planting)
T3- Recommended Practice-	IIHR Vegetable special (Powder formulation of micronutrient, to be applied as foliar application (3 gram / litre) during 45th, 60th 90th and 120th day after planting)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIHR, Bangalore and TNAU, Coimbatore
Characteristics of technology: vege	Nutrient formulation for foliar spray for foliar spray of vegetables
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Integrated crop management technologies
Year/Season:	Rabi 2024-25
Farming situation:	Mid / low land
Problem diagnosis:	Low yield of Okra due to nutrition deficiency, sucking pests and root rot incidences Lack of awareness about bio fertilizers and bio agents.
Thematic area:	Integrated crop management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Refinement
Details of technology selected for assessment/ refinement:	

T1 – Farmers Practice-	No application of bio fertilizers and bio agents
T2 –Recommended Practice-	Soil test based fertilizer recommendation, Soil application of bio fertilizers and arka consortia (4kg/acre), Foliar spraying of IIHR vegetable special (4kg/acre)
T3- Recommended Practice-	Neem cake –50 kg / acre (2 splits at planting and 30 DAP); Yellow sticky traps 12 nos / acre; Neem oil @ 0.3 %
Date of sowing:	-
Date of harvesting:	-
Source of technology:	TNAU
Characteristics of technology:	-
Name of Crop/Enterprises:	Okra
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of Performance of Osmanabadi Breeding buck
Year/Season:	All-2024
Farming situation:	Extensive and semi intensive
Problem diagnosis:	Low prolificacy of local breeding bucks
Thematic area:	Livestock Production Management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Local breeding buck
T2 –Recommended Practice-	Use of Osmanabadi Breeding buck
Date of sowing:	-
Date of harvesting:	-
Source of technology:	DSVCKV Durg
Characteristics of technology:	-
Name of Crop/Enterprises:	Osmanabadi breeding buck
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science
Title of on-farm trial:	Assessment of F1 generation of Sonkukri (native male x PB2 female) chicken
Year/Season:	All-2024
Farming situation:	Backyard Farming
Problem diagnosis:	Slow growth of native chicken
Thematic area:	Poultry production & management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Rearing of native chicken
T2 –Recommended Practice-	Rearing of F1 generation of Sonkukri (native male x PB2 female) chicken
Date of sowing:	-
Date of harvesting:	-
Source of technology:	DSVCKV Durg
Characteristics of technology:	-
Name of Crop/Enterprises:	Chicks
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT: 1

Title of on-farm trial:	Assessment of Iron rich soup powder for anemic adolescent girls
Year/Season:	2024
Problem diagnosis:	Wide prevalence of anemia among adolescent girls
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutri smart initiatives
No of trials:	10 adolescent girls
No. of farmers/farm women involved	10 adolescent girls
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Consumption of iron deficient diet (RDA)
T2 –Recommended Practice-	T2- 30% ragi flour, 30% rice flour ,10% Moringa leaves powder,11%Tomato powder,4% rock salt, 10%onion garlic powder, 0.5%, black paper,0.5% Cumin and 4%sugar Soup powder @25gm/day for 3 month
Source of technology:	S.V. College of Pharmacy, Tamilnadu 2022 College of Food Technology Saralgaon, Thane. 2019
Characteristics of technology:	Enrich micronutrient .
Name of Crop/Enterprises:	Moringa leaves powder
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Home Science OFT: 2

Title of on-farm trial:	Assessment of income enhancement through CR Dhan-310 rice papad with tomato flavor .
Year/Season:	2024
Problem diagnosis:	Lack of knowledge about biofortified rice processing
Thematic area: (Focus area in DFI and nutri smart initiatives)	Income generation
No of trials:	04
No. of farmers/farm women involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Uses of 100% local available rice
T2 –Recommended Practice-	70% Rice Flour, 20% Tomato powder, 1% Red Chilli Powder, 1% Cumin, 2% Sesame seed, 2% Papad khar, 4% Salt
Source of technology:	DFT College of Food Technology Saralgaon Maharashtra,2021

Characteristics of technology:	Protein rich papad
Name of Crop/Enterprises:	CR 310 rice flour
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Home Science OFT: 3

Title of on-farm trial:	Assessment on processing of Yam pickle making
Year/Season:	2024
Problem diagnosis:	Lack of knowledge about yam processing
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value addition
No of trials:	04
No. of farmers/farm women involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Not practiced
T2 –Recommended Practice-	Processing of yum as a pickle by using salt, turmeric chili powder, lemon juice and mustard oil.
Source of technology:	Bidhan Chandra Krishi Viswavidyalaya) West Bengal 2018
Characteristics of technology:	
Name of Crop/Enterprises:	Yam
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Dept. Personnel	-
Feedback	-

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Rice	Nutrient Management	STCR based recommendation	Fertilizer	Kharif 2024	4.8	12	No. of tillers/plant, Yield qt./ha., Test weight (gm)
2	Chickpea	Integrated Nutrient Management	INM module	Vermicompost and Bio fertilizer	Rabi 2024-25	4.8	12	Yield qt./ha., Seed weight (gm)
3	Wheat crop	Natural farming	Jeevamrit and Ghanjeevamrit	Jeevamrit and Ghanjeevamrit	Rabi 2024-25	4.8	12	Yield qt./ha., Test weight (gm)
4	Rice	IPM	Management of rice pest using cow urine based botanical pesticide	Cow urine based botanical pesticide	Kharif, 2024	4.0	10	Pest infestation (%) Yield (qt/ha)
5	Green gram	IDM	Management of yellow mosaic disease through YST	Yellow sticky trap & Neem oil	Summer, 2024	4.0	10	Disease incidence (%) Yield (qt/ha)
6	Bottle gourd	Integrated Nutrient Management (INM)	Demonstration of Vertical gardening techniques and foliar application of Boron to increase the productivity of Bottle gourd	Micro-nurtient	Kharif, 2024	4.8	12	No. Of fruits /plant, yield q/ ha, economics
7	Tomato	Integrated Nutrient Management (INM)	Demonstration of humic acid and zinc sulfate on keeping quality and yield of tomato	Humic acid and zinc sulfate	Rabi 2024-25	4.8	12	No. Of fruits /plant, yield/ ha, economics
8	Seasonal vegetables	Nutritional security	Nutrition garden	Improved seeds & seasonal vegetables production	All season 2024	0.24	12	Anthropometric observation and per capita consumption /day
9	Mushroom	Value addition	Food preservation	Raw materials for value addition	Rabi 2024	-	12	Net return, economics

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	March, April, October,	340

			November, December	
2	Farmers Training	04	July, November	100
3	Media coverage	02	March, October	60
4	Training for extension functionaries	02	July, August, October , November	90

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Integrated Nutrient Management	Bottle gourd	Kharif 2024	12	4.8	Micro-nutrient	No. Of fruits /plant, yield q/ ha, economics	Yield qt./ha.	Yield qt./ha.
Integrated Nutrient Management	Tomato	Rabi 2024-25	12	4.8	humic acid and zinc sulfate	No. Of fruits /plant, yield/ ha, economics	Yield qt./ha.	Yield qt./ha.

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Chicken	Cocekraill	04	240	Cockerail chicken	Growth rate Clutch size	supplementary feeding in cockrail chicken	No supplementary feeding in cockrail chicken
Goats	-	04	40	Goats Acaricidal drugs	Disease Incidence (%)	Demonstration of different Acaricidal Drugs for control of ectoparasite	No use of drugs for control of ectoparasite

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1								
2								

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days			
2	Farmers Training			
3	Media coverage			
4	Training for extension functionaries			

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management									
Resource Conservation Technologies									
Integrated Farming									
Water management									
Seed production									
Integrated Crop Management									
Total									
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	01	01	25	10	35	5	-	5	40
Protective cultivation (Green Houses, Shade Net etc.)	01	01	25	05	30	5	-	5	35
Total	02	02	50	15	65	05	-	05	70
b) Fruits									
Management of young plants/orchards	01	01	25	05	30	05	05	5	40

[illegible]

[illegible]

[illegible]

organic inputs									
Sheep and goat rearing									
TOTAL									
(C) Extension Personnel	02	02	50	10	60	6	4	10	60
TOTAL									

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
April. 2024		Off-season vegetables cultivation	01	25	10	35	5	-	5	40
May 2024		Protected cultivation of vegetables	01	25	05	30	5	-	5	35
July 2024		Management of young plants/orchards	01	25	05	30	05	05	5	40
Oct 2024		Package & practices of Ornamental Plants production	01	20	10	30	05	05	10	40
June 2024		Techniques of production of Planting material in horticultural crops	01	20	5	25	05	05	10	35
March 2024		Protected cultivation technology in high valued horticultural crops	01	20	5	25	05	05	10	35
Livestock production										
Home Science										
20/11/24		Value addition of fruits and	03	2	15	20	-	5	5	25

		vegetables								
28/07/24		Processing of spices	03	5	10	15	-	5	5	20
Plant Protection										
27/08//2024	F/Fw	Mushroom production	01	5	20	25	5	0	05	30
25/09/2024	RY	Trichoderma production	01	20	5	25	5	0	05	30
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
March		Nutrient management	1	35	15	50	2	1		53

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
April. 2024		Nursery raising techniques in vegetable crops	01	25	10	35	5		5	40
Dec 2024		Package for production of Export potential vegetables	01	20	10	30	5		5	35
march 2024		Protective cultivation of high valued crops	01	20	10	30	5		5	35
July2024		Cultivation techniques of Fruit plant	01	20	10	30	5		5	35
June 2024		Management of newly established orchard orchards	01	20	10	30	5		5	35
Sep. 2024		Export potential of ornamental plants	01	20	10	30	5		5	35

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Aug. 2024		Propagation techniques of Ornamental Plants	01	20	10	30	5		5	35
Jan. 2024		Package & practices of Plantation crops production	01	20	10	30	5		5	35
Nov. 2024		Tuber crops production techniques	01	20	10	30	5		5	35
Livestock production										
Home Science										
10/10/24		Value addition of papaya	1	05	15	20	-	10	10	30
23/04/24		Awareness program on millets for nutritional security	1	5	15	20	5	5	10	30
Plant Protection										
25/08/2024	F/FW	Integrated Pest Management	05	80	20	100	15	5	20	120
15/09/2024	F	Integrated Disease Management	05	80	20	100	15	5	20	120
25/10/2024	F	Disease of rice & their control	01	20	5	25	3	2	05	30
30/11/2024	FW	Bio pesticides Production technique	01	20	5	25	3	2	05	30
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
September		Nutrient deficiency	1	30	15	45	1	1		47

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
June-2024		Propagation techniques & nursey management, in horticultural crops	05	15	5	20	5	5	10	30
Livestock production										
Home Science										
20-24 march 2024		Value addition of fruits and vegetables	5	-	20	20	-	10	10	30
Plant Protection										
28-30 / 07 / 2024	F/FW	Mushroom production technology	03	10	20	30	0	0	0	30
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
November		Soil testing	1	15	3	18	3	2	5	23

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
November-2024		Precision farming and	05	15	5	20	5	5	10	30

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		Hi-tech horticulture								
Livestock production										
Home Science										
28/09/24	Aganwadi worker	Preparation of protein & calcium rich food	1	-	12	12	-	10	10	22
28/11/24	Aganwadi worker	Processing and preparation of soybean product	1	-	12	12	-	10	10	22
Plant Protection										
13/08/2024	IS	IPM in Kharif crop	01	20	5	25	3	2	05	30
29/11/2024	IS	IPM in Rabi crop	01	20	5	25	3	2	05	30
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
October		Fertilizer management	1	15	8	22	1	2	3	25

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/RY/EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1.	Cultivation of soybean in Ridge & furrow method	Resource Conservation Technologies	01	PF	01	20	3	5	2	25	5	30	Department of Agriculture
2.	Crop planning for improving cropping intensity	Cropping Systems	01	PF	01	20	3	5	2	25	5	30	Department of Agriculture

3.	Cultivation of pulse in place of summer paddy	Crop Diversification	02	PF	02	40	6	10	4	50	10	60	Department of Agriculture
4.	Method of seed production of finger millets	Seed production	01	PF	01	20	3	5	2	25	5	30	Department of Agriculture
5.	Cultivation of oilseed crop	Integrated Crop Management	05	PF	05	80	15	20	5	100	20	120	Department of Agriculture
6.	Cultivation of Horticultural crops	Integrated Crop Management	01	PF	01	20	3	5	2	25	5	30	Department of Horticulture
7.	Organic farming	INM	1		2	50	2	10	1	60	3	63	-
8.	National nutrition month (awareness program)	Nutrition security	02	FW	02	10	50	60	10	30	40	100	WCD

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	05	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	04	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	05	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total										

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	Rajeshwari	250
OILSEEDS			
PULSES	Soybean	JS-9752	20
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava / Mango / custard apple/drumstick/jackfruit and other	-	5000
SPICES			
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			

Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			10000
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	

2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Borai	Durg	15
2	Barhapur	Dhamdha	50
3	Thanod	Durg	08
4	Balodi	Durg	13
5	Maloud	Durg	12
6	Kodiya	Durg	10
7	Hanoda	Durg	10
8	Pisegaon	Durg	05
9	Purda	Dhamdha	35
10	Litiya	Dhamdha	17
11	Chicha	Dhamdha	15

1. No. of farm families selected per village :

2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	100	100	4	nil
Water Samples	-	-	-	-nil
Total	100	100	4	nil

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
3F oil palm pvt Ltd	Training

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes/No

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _____ 1000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Fodder	All	Nepier, Para grass	Improvement fodder mass	1000

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Mushroom	Oyster Mushroom Production	15	50 kg Mushroom
Nutritional Garden	Seasonal vegetables	2000	-
Mango	Different varieties of Mango	1500	-
Mango/Citrus Orchard	Different varieties of Mango and Citrus	10000	-
Natural Farming Demo unit	Jeevamrit and Ghanjeevamrit	400	Jeevamrit – 2000 L Ghanjeevamrit- 15 qt.
Vermi compost unit	Vermi compost and production of verm	250	Vermi compost- 200 qt. Verm- 80 kg
Fodder Cafeteria Unit	Fodder production	1000	Demonstration of different fodders

ANNUAL ACTION PLAN 2024

KVK Durg-II

Year of sanction: 2016-17

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Vijay Jain	-	9425213284	Kvk.durg@igkv.ac.in

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Vijay Jain	Sr. Scientist & Head	Horticulture	156900	01/03/1995	2016-17	9425213284	vjhort@gmail.com	
2	Subject Matter Specialist	Sh. Ishwari Kumar	SMS	Entomology	71100	06/09/2012	2016-17	9993816173	sahuikrjn77@gmail.com	
3	Subject Matter Specialist	Smt. Lalita Ramteke	SMS	Soil Science & Agril. Chemistry	73200	06/09/2012	2016-17	9826175348	lalitanages@rediffmail.com	
4	Subject Matter Specialist	Smt. Neetu Swarnkar	SMS	Agronomy	71100	07/09/2012	2017-18	9977375766	neet.v21@gmail.com	
5	Subject Matter Specialist	Dr. Kamal Narayan	SMS	Horticulture	71100	11/09/2012	2018-19	9669066314	kamalnarayan37@gmail.com	
6	Subject Matter Specialist	Sh. Vinay Kumar Nayak	SMS	Farm Machinery and Power	71100	01/10/2012	2016-17	9669424836	nayak_vinay25@yahoo.co.in	
7	Subject Matter Specialist	Sh. P. B. Rahangdale	SMS	Livestock Production Management	69000	19/02/2013	2018-19	7869209980	dr Rahangdale@gmail.com	

8	Programme Assistant	Smt. Sweta M Shrivastava	Programme Assistant	Plant Pathology	43600	20/10/2014	2018-19	9589786205	shrivastavaagripatho@gmail.com	
9	Computer Programmer/Programme Assistant	Shri Kishor Kumar Singh	Computer Programmer	Computer Application	46200	12/09/2012	2017-18	9753230666	pkishorsingh@gmail.com	
10	Farm Manager	Smt. Aarti Tikariha	Farm Manager	Agronomy	46200	12/09/2012	2017-18	9926545549	verma.aarti2503@gmail.com	
11	Assistant	Sh. M.S. Baghel*	Accountant / superintendent	-	20900	26/03/2021	2020-21	9981373139	-	
12	Jr. Stenographer / Comp. Operator	Vacant	-	-	-	-	-	-	-	
13	Driver	Sh. Govind Ram Sahu	Driver	-	30300	18/04/2008	-	-	-	
14	Driver	Sh. Bhism Verma*	Driver	-	14200	14/07/2022	2022-23	6264504151	bhishmverma1996@gmail.com	
15	Supporting staff	Sh. Kisan Kumar Kanvar*	Supporting staff	-	11360	23/11/2021	2021-22	7354522038	-	
16	Supporting staff	Sh. Bimlesh*	Supporting staff	-	11360	09/11/2021	2021-22	6267550280	-	

*contractual staff

1.3 Total land with KVK (in ha): 21.2

S. No.	Item	Area (ha)
1	Under Buildings	2.50
2	Under Demonstration Units	0.40
3	Under Crops	13.4
4	Orchard/Agro-forestry	1.8
5	Under Roads	1.6
6	Under Ponds	1.5
Total		21.2

1.4 Infrastructural Development:**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	-	-	-	-	-	-
2	Farmers Hostel	ICAR	-	-	-	-	-	-
3	Staff Quarters (6)	Nil	Nil	Nil	Nil	Nil	Nil	Nil
4	Demonstration Units (2)	NHM, MNREGA	-	-	-	-	-	-
5	Fencing	IGKV	-	-	-	-	-	-
6	Rain Water harvesting system	Nil	Nil	Nil	Nil	Nil	Nil	Nil
7	Threshing floor	Nil	Nil	Nil	Nil	Nil	Nil	Nil
8	Farm godown	Nil	Nil	Nil	Nil	Nil	Nil	Nil

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2019	687936.00	1810 h	Working
Motor Cycle 2	-	-	-	-
Bolero(Jeep)	2018	774890.00	110000	Working
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2018-19	44990	Working
Xerox Machine	2018-19	84994	Working
Computer, Laser Printer	2018-19 and 2021-22	49665, 75000	Working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	20.06.2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Moderately to gently sloping Chhattisgarh Mahanadi Basin, Hot Moist/Dry Sub-humid Transitional ESR With Deep Loamy to Clayey Red and Yellow Soils

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	-
2	AES - 2	-
3	AES – 3	-
4	AES – 4	-
5	AES – 5	-
6	AES – 6	-

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
?	?	?	?

AES-2 (name)

Strength	Weakness	Opportunities	Threats
?	?	?	?

AES-3 (name)

Strength	Weakness	Opportunities	Threats
?	?	?	?

AES-4 (name)

Strength	Weakness	Opportunities	Threats
?	?	?	?

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	231.99
Forest	0
Waste Land	41.114
Other than cultivated area	43.161
Cultivable waste and alkaline land	11.013
Pastures	19.412
Bushes	0
Current Fallow	5.217
Other Fallow	7.519
Agricultural Land	147.724
Area Sown	208.269
Kharif	145.719
Rabi	62.55
Zaid	-
Cropping Intensity	141 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	65130
2	Well	44920
3	Tube well	241
4	Ponds	751
5	Others	4100

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Entisol	Entisols are sandy mineral soils low in organic matter, natural fertility, and water-holding capacity. They have weak or no diagnostic subsurface layers and are well to excessively well drained and acidic in nature.	12.953
2	Inseptisol	Inceptisols are soils of relatively new origin and are characterized by having only the weakest appearance of horizons, or layers, produced by soil-forming factors. They are the most abundant on Earth, occupying almost 22 percent of all nonpolar continental land area.	31.738
3	Alfisol	Alfisols are moderately leached soils that have relatively high native fertility. These soils have mainly formed under forest and have a subsurface horizon in which clays have accumulated. Alfisols are primarily found in temperate humid and subhumid regions of the world.	35.081
4	Vertisol	Vertisols are characterized by a clay-size-particle content of 30 percent or more by mass in all horizons (layers) of the upper half-metre of the soil profile, by cracks at least 1 cm (0.4 inch) wide extending downward from the land surface	64.996
5	Kachhar	Kachhar soil is formed by the deposition of the river load as it flows from its upper to its lower course. It is light and porous, therefore easily tillable. It is a fertile soil as it is rich in minerals, especially potash and lime	00.830
Total			145.598

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
Kharif				
1	Rice	134380	3356810	2498
2	Maize	1400	2900	3530
3	Pigeonpea	2690	18400	1120
4	Soybean	3430	19100	950
Rabi				
1	Wheat	16845	235830	1400
2	Maize	1522	61640	4050
3	Summer Rice	7068	266460	3770
4	Chickpea	15318	130200	850
5	Lathyrus	10337	46520	450
6	Mustard	3059	12240	400

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	4	26.05	11.54
Feb, 22	0	31.94	13.56
Mar, 22	49	34.07	20.17
Apr, 22	42	38.12	23.90
May, 22	77	39.68	25.54
Jun, 22	506	30.60	24.86
July, 2022	303	29.20	23.64
Aug., 2022	400	29.90	24.03
Sept., 2022	10	29.13	19.23
Oct. 2022	5	29.20	19.31
Nov. 2022	3	27.21	13.89
Dec. 2022	44	25.41	13.60

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	10877/296816	 MT.	 kg
Buffalo	51122	 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>	8/7464	 MT wool	 kg
Goats	61499	 MT	 kg
Pigs Crossbred/ Indigenous	260/1334	---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2023)

S.No	KVK	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Durg-II	Patan	Ameri	Summer Rice	Low profit share in summer Rice	Crop Diversification
2	Durg-II	Patan	Arasnara	Scented Rice	High input cost due to use of inorganic fertilizer and pesticides	Wealth from organic produce
3	Durg-II	Patan	Ghughwa	Scented Rice	High input cost due to use of inorganic fertilizer and pesticides	Wealth from organic produce
4	Durg-II	Patan	Pahanda(A)	Scented Rice	High input cost due to use of inorganic fertilizer and pesticides	Wealth from organic produce
5	Durg-II	Patan	Bharar	Scented Rice	High input cost due to use of inorganic fertilizer and pesticides	Wealth from organic produce
6	Durg-II	Patan	Pahanda(A)	Rice	Aquatic weeds "Algea" in Rice Field	Integrated Crop Management
7	Durg-II	Patan	Bhatagaon	Chickpea	Low yield of crop due to use of traditional method of cultivation	Standardization of Cropping System
8	Durg-II	Patan	Kuruddih	Chickpea	Low yield of crop due to use of traditional method of cultivation	Standardization of Cropping System
9	Durg-II	Patan	Jheet	Mustard	Low yield of crop due to use of traditional method of cultivation	Standardization of Cropping System
10	Durg-II	Patan	Mahuda	Vermicompost	Women were not aware to produce quality compost	Promotion of SHG, Cooperative system for input as well as output of farm produce.
11	Durg-II	Patan	Kuruddih	Vermicompost	Women were not aware to produce quality compost	Promotion of SHG, Cooperative system for input as well as output of farm produce.
12	Durg-II	Patan	Ameri	Vermicompost	Women were not aware to produce quality compost	Promotion of SHG, Cooperative system for input as well as output of farm produce.
13	Durg-II	Patan	Kumhari	Vermicompost	Women were not aware to produce quality compost	Promotion of SHG, Cooperative system for input as well as output of farm produce.
14	Durg-II	Patan	Amleshwar	Elephant foot yam	High tuber requirement for planting	Integrated Crop Management
15	Durg-II	Patan	Ghughwa	Bottle gourd	Low fruit set in bottle gourd	Integrated Crop Management

16	Durg-II	Patan	Kumhari	Banana	Uneven bunch filling in Banana	Integrated Crop Management
17	Durg-II	Patan	Marra	Kitchen Garden	Weed problem in kitchen garden	Integrated Crop Management
18	Durg-II	Patan	Batang	Kitchen Garden	Unavailability of multicut/leafy vegetable	Integrated Crop Management
19	Durg-II	Patan	Kumhari	Potato	Unavailability of seed of traditional variety and leaf curl in Potato	Integrated Crop Management
20	Durg-II	Patan	Parsada	Okra	Mosaic in Okra	Integrated Crop Management
21	Durg-II	Dhamdha	Malpurikala	Banana	Uneven bunch filling in Banana	Integrated Crop Management
22	Durg-II	Patan	Ameri	Maize	Maize fall army worm	Integrated Crop Management
23	Durg-II	Patan	Batang	Wheat	Wheat stem borer	Integrated Crop Management
24	Durg-II	Patan	Tulsi	Rice	Rice stem borer and leaf folder	Integrated Crop Management
25	Durg-II	Patan	Pahanada (A)	Rice	Brown plant hopper	Integrated Crop Management
26	Durg-II	Dhamdha	Matra	Mustard	Rice stem borer and leaf folder	Integrated Pest Management
27	Durg-II	Patan	Amlehwar, Pahanda(A)	Goat	Diarrhea in goat	Livestock Production Management
28	Durg-II	Patan	Mahuda, Pahanda(A)	Dairy cow	Intestinal worm infestation in animal	Livestock Health Management
29	Durg-II	Dhamdha	Darbarmokhl i	Quail	Low income through indigenous bird rearing	Livestock Production Management
30	Durg-II	Patan	Kumhari	Dairy cow	Low milk production due to poor balance feeding	Livestock Production Management
31	Durg-II	Patan	Pahanda (A)	Dairy cow	Poor milk yield due to non availability of balance concentrate feed and green fodder	Livestock Production Management
32	Patan	Patan	Khamhariya	Enterprise-Vermicompos t	High cost of vermicompost production	Income generation through SHG
33	Patan	Patan	Batang	Enterprise-Vermicompos t	High cost of vermicompost production	Income generation through SHG
34	Patan	Patan	Karga	Wheat and chick pea	Not aware for soil health -liquid solution of culture ,fertilizer application and nutrient management	Need to Balance fertilization with sustainable techniques

35	Patan	Patan	Karga	Chickpea	Infestation of broad leaved weeds in chickpea leading yield loss	ICM through introducing post emergence herbicide on chickpea for control of BLW
36	Patan	Patan	Pahanda, Batang	Lathyrus	Low yield due to poor cultivation package of practice in Lathyrus	Introducing improved utera technique for cultivation of Lathyrus
37	Patan	Patan	Arasnara, Ameri. Bharar	Scented Rice	Unavailability of short heightened scented fine Rice under organic farming	Introducing of short heightened scented fine Rice variety C.G. Dubraj Trombey under organic farming
38	Patan	Patan	Karga, Jheet	Wheat	Unavailability of crop variety suitable for late sown condition	Introducing suitable variety for late sown condition

Priority / Thrust areas

S. No.	Particulars
1.	Cost reduction in paddy
2.	Indiscriminate use of pesticide
3	Low cropping intensity
4	Un availability of dwarf organic fine and scented rice variety
5	Reduction in area of oilseed & pulses due to uncertain heavy rain
6	Required late sown heat tolerance wheat varieties
7	Low yield of turmeric & ginger due to unfavourable condition for weeding and earthing up
8	Unavailability of flower in local market during hot summer

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
16	78	9	119

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
103	2492	1960	5899

Seed Production (Qtl.)	Planting material (Nos.)
486	209859

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Crop Production	Scented Rice	Unavailability of short heighted, fine grain variety of scented Rice		Demonstration of organic cultivation of Scented Rice	-	-	-	Seeds of scented Rice variety
2	ICM	Algae cide	Loss of yield due to infestation of algae in rice	-	Demonstration on use of CuSO4 for control of algae in Rice	-	-	-	CuSO4
2	ICM	Herbicide in Chickpea	Unavailability of post emergence herbicide for control of BLWs in Chickpea	Assessment of "Topramezon" herbicide for control of broad leaved weed	-	-	-	-	Post-Emergence herbicide "Topramezon"
3	Integrated Crop Management	Wheat	Low yield of wheat due to heat stress during	Assessment of heat tolerance wheat variety	-	-	-	-	Seeds of Wheat variety "Kanishka"

			growing period of crop caused forced maturity in initial stage of crop	"Kanishk a"					
4	INM	Wheat	Farmers not applied fertilizer according to soil health card	Assessment of soil test based fertilizer application on "Wheat"	-	-	-	-	Soil testing
5	Precision Agriculture	Rice	Timely unavailability of urea, poor management of urea, transportation & high cost	Assessment of Nano urea application on Rice crop	-	-	-	-	Nano urea
6	INM	Ghurwa/Compost	Traditional method requires long duration to decomposition, not fully decomposed, produce available once in a year	Assessment of Smart Ghurwa Khad Technique	-	-	-	-	Trichoderma viridi, PSB, Azotobacter
	INM	Rice	Injudicious use of Urea	Assessment of Leaf Color Chart(LCC) to improve nitrogen	-	-	-	-	Through Leaf Color Chart

				use efficiency in Rice					
7	INM	Mustard	Farmers not apply split dose of nitrogen in Mustard	-	Demonstration on application of nitrogen in split dose in Mustard	Farmers training on application of nitrogen in split dose in Mustard	Training of extension personnel on management	Group discussion, field day on nutrient management	urea
8	INM	Vermicompost	High cost of vermicompost unit		Demonstration on low cost "heap method" of vermicomposting	Farmers training on low cost "heap method" of vermicomposting	Training of extension personnel on management	Group discussion, field day on nutrient management	Worms
9	Integrated Crop Management	Onion	Cloudy weather & continuous drizzling which creates the problem of foliar as well as soil-borne diseases. Prices of onion increases very rapidly in October and remains high till January-	Assessment of Onion production technology for kharif onion	-	-	-	-	Seed & BBF on hire basis

			February						
10	Integrated Crop Management	Turmeric	Low yield of turmeric due to unfavorable condition for weeding & earthing up	Assessment of economics of turmeric cultivation using Mulching	-	-	-	-	Plastic mulch, Turmeric seed
11	Varietal evaluation	Gaillardia	- Scarcity of flower during hot summer - Low quality flower during summer season	Assessment of Gaillardia for flower production during hot summer season	-	-	-	-	Gaillardia seedling
12	Integrated Crop Management	Coriander	Low yield of coriander due to unavailability of seed of improved variety of coriander	-	FLD on HYV C.G. Shree Chandrah ashni Dhaniya-2 of Coriander with improved package of practices	Farmers training on improved production technology of coriander	Training of extension personnel on improved production technology of coriander	Group discussion, field day	Coriander seed
13	Nutritional security	Kitchen garden	Improper utilization of Badi	-	FLD on scientific Badi/Kitchen garden for nutritional security & additional income source of farm family	Farmers training on Kitchen garden	Training of extension personnel on Kitchen garden	Group discussion, field day	Vegetable seedlings
14	AEG	Vegetable/Weeder	Weeding/labor cost, time consuming	Assessment of single row weeder for					

				weeding in Vegetabl e crops					
1 5	AEG	Paddy / Seed cum Fertiliz er drill		Assess ment of line sowing of paddy at modify row to row spacing					
1 6	AEG	Veget able/ Weed er	Weeding/ labour cost, time consuming	Assessm ent of single row weeder for weeding in Vegetabl e crops					
1 7	AEG	Musta rd/ Seed cum Fertiliz er drill	Seed rate, excess plant population	Assessm ent of line sowing of mustard by inclined plate planter					
1 8	AEG	Wheat / Seed cum Fertiliz er drill	Seed rate, uneven seed distributio n due to broadcasti ng of seed		FLD on line sowing of wheat by seed cum fertilizer drill	calibra tion of seed cum fertiliz er drill for sowin g of Wheat			
1 9	AEG	Corian der/ Seed cum fertilize r drill	poor germinatio n, water logging due to traditional practice of sowing		FLD on line sowing of coriander by seed cum fertilizer drill	calibra tion of seed cum fertiliz er drill for sowin g of			

						Corian der			

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Crop Production										
Integrated Pest Management										
Integrated Crop Management										
Crop Diversification										
Varietal evaluation										
INM										
Organic farming										
Precision Agriculture										
AEG										
Vermicomposting										
TOTAL										

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
LPM	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Paddy
Title of on farm trial	Refinement in use of chemicals against rice panicle mite <i>Stenotarsonemus spinki</i> Smiley
Problem diagnosed	- Rice panicle mite, <i>Stenotarsonemus spinki</i> Smiley causes the yield losses (discoloured & chaffy grains) 4.90% to 23.70% . - Farmers unknown about spraying stages of the crop for better management of rice panicle mite.
Farmers' Practices (T ₁)	Spaying of Ethion or Hexythiazox or Abamectin at milking to Dough stage

Details of technologies selected for assessment (T ₂)	Spraying of Diafenthuron 50 % WP @ 1.50 ml/lit. + propiconazole 25 % EC @ 1.00 ml/lit. of water (Two spraying at booting and panicle initiation stages)
(T ₃)	Spiromesifen 22.9% SC @ 1 ml/+ propiconazole 25 % EC @ 1.00 ml/lit. of water (Two spraying at booting and panicle initiation stages)
Source of technology	Acharya N.G. Ranga Agricultural University, Hyderabad, Telangana. 2013
Plot size	0.2 ha
No. of farmers	06
Total cost	Rs.7500/-
Critical input	Diafenthuron 50 % WP ,, Propiconazole 25 % EC and – Spiromesifen 22.9% SC
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	% damaged grains//panicle, yield (qt./ha) and B:C ratio

OFT-2

Crop / Enterprise	Tomato
Title of on farm trial	Assessment of Chlorantraniliprole & Indoxacarb for Tomato fruit borer, <i>Helicoverpa armigera</i> Hub. in tomato
Problem diagnosed	Tomato fruit borer, <i>Helicoverpa armigera</i> (Hubner), is the most destructive insect pest causing average percent damage to fruits is 24.65%, reducing the market value and quality of the fruit and found to cause a yield loss up to 35 %
Farmers' Practices (T ₁)	Indiscriminate use of insecticides (Emamectin Benzoate , Cartap Hydrochloride , Flubendiamide, Profenophos, Lambda Cyhalothrin , Thiamethoxam 12.6% + Lambda Cyhalothrin)
Details of technologies selected for assessment (T ₂)	Spraying of Chlorantraniliprole 18.5 SC @ 150 ml /ha 25 DAT, larval population crossed ETL and Indoxacarb 14.5 SC @ 450 ml /ha as soon as the larval population crosses ETL i.e. 48 DAT
(T ₃)	-
Source of technology	Chaudhary Charan Singh Haryana Agricultural University, Hisar, 2022
Plot size	0.20 ha.
No. of farmers	06
Total cost	Rs.7500/-
Critical input	Chlorantraniliprole 18.5 SC and Indoxacarb 14.5 SC
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	% damaged fruit, yield (qt./ha) and B:C ratio

OFT-3

Crop / Enterprise	Mustard
Title of on farm trial	Assessment of Entomopathogenic fungi, <i>Lecanicillium lecanii</i> for Management of Mustard aphid: <i>Lipaphis erysimi</i> Kalt.
Problem diagnosed	- Mustard Aphid (<i>Lipaphis erysimi</i>): This is a major pest of mustard. It causes loss to the crop from December to March. This insect can cause loss from 25-40 % - Use of chemical insecticides that's are hazardous to living being
Farmers' Practices (T ₁)	Chemical management of mustard aphid (Diamethoate, Thiamethoxam, Imidachlopid, Imidachlopid + Chorpyriphos)
Details of technologies selected for assessment (T ₂)	Spraying of Entomopathogenic fungi, <i>Lecanicillium lecanii</i> @ 10 ml/lit. of water
(T ₃)	-
Source of technology	National Institute of Plant Health Management, Department of Agriculture & Cooperation. Ministry of Agriculture, Government of India
Plot size	0.20 ha.
No. of farmers	06
Total cost	Rs.6500/-
Critical input	Entomopathogenic fungi, <i>Lecanicillium lecanii</i>
Performance indicators: (i)Growth and Yield attributes (ii) Technical- yield (q/ha) (iii) Economic (iv) Social- Employment generation	Aphids population/plant, cost reduction (Rs./ha.) yield (qt./ha) and B:C ratio

OFT – 04

Crop / Enterprise	Cabbage
Title of on farm trial	Assessment of IPM module for management of Diamond Back Moth, <i>Plutella xylostella</i> in cabbage
Problem diagnosed	- The estimated losses by diamond back moth, <i>Plutella xylostella</i> in cabbage crop at least 17-99 percent - Use of more hazardous chemical insecticides
Farmers' Practices (T ₁)	Indiscriminate use of insecticides (Emamectin Benzoate, , Flubendiamide, Profenophos, Lambda Cyhalothrin, Indoxacarb, Indoxacarb + Novaluron)
Details of technologies selected for assessment (T ₂)	Three releases of <i>Trichogramma chilonis</i> @ 1 lakh/ha at 10 days interval after 30 DAT + one spray of Bt 10 ml/lit. of water at 15days after release of <i>Trichogramma</i> + one spray of Spinosad 2.5% SC @ 1.5 ml/ of water
(T ₃)	-
Source of technology	Crop protection division, IIVR, Varanasi
Plot size	0.20 ha.
No. of farmers	06

Total cost	Rs.6500/-
Critical input	<i>Trichogramma chilonis</i> , Bt. And Spinosad
Performance indicators: (i)Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	No. of larvae/plant or head, yield (qt./ha) and B:C ratio

OFT-5

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of soil test based fertilizer application on “Wheat”
Problem diagnosed	Farmers not applied fertilizer according to soil health card
Farmers' Practices	T ₁ application of fertilizer without soil testing
	T ₂ Recommendation of fertilizer after soil testing
Source of technology	IGKV
Plot size	2.0
No. of farmers	5
Total cost	2600/-
Critical input	Soil sampling and testing
Performance indicators: (v)Technical- yield (q/ ha) (vi)Economic (vii)Social – Employment generation	No. of tillers/plant, yield , economics

OFT-6

Crop / Enterprise	Rice
Title of on farm trial	Assessment of Leaf Color Chart(LCC) to improve nitrogen use efficiency in Rice
Problem diagnosed	Injudicious use of Urea
Farmers' Practices	Fertilizer dose 120:60:40 kg/ ha (Basal 60 N+ top dress 30N &30N)
Details of technologies selectedfor assessment	T ₁ Fertilizer dose 120:60:40 kg/ ha (Basal 60 N+ top dress 30N &30N)
	T ₂ - Application of fertilizer according to LCC
Source of technology	IGKV
Plot size	5 unit
No. of farmers	5
Total cost	900.0
Critical input	Leaf color Chart

Performance indicators: (viii) Technical- yield (q/ ha) (ix) Economic (x) Social – Employment generation	No. of tillers/plant, Yield, economics

OFT-7

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of Nano urea application on Rice crop	
Problem diagnosed	Timely unavailability of urea, poor management of urea, transportation & high cost	
Farmers' Practices	Fertilizer dose 120:60:40 kg/ ha (Basal + top dress)	
Details of technologies selected for assessment	T ₁	Fertilizer dose 120:60:40 kg/ ha (Basal + top dress)
	T ₂	50% N, 100% P & K (as basal)+ 2 spray of Nano urea @ 4ml/ liter (Top dress)
Source of technology	-	
Plot size	0.40	
No. of farmers	05	
Total cost	1045	
Critical input	Nano urea	
Performance indicators: (xi) Technical- yield (q/ ha) (xii) Economic (xiii) Social – Employment generation	No. of tillers/plant, Lodging %, economics	

OFT-8

Crop / Enterprise	Enterprise	
Title of on farm trial	Assessment of Smart Ghurwa Khad Technique	
Problem diagnosed	Traditional method requires long duration to decomposition ,not fully decomposed ,produce available once in a year	
Farmers' Practices	Traditional method of Ghurwa Khad	
Details of technologies selected for assessment	T ₁	Traditional method of Ghurwa Khad
	T ₂	▪ Base of ghurwa made compact with polythene sheet ,divide of pit in 2 parts in particular size, added @ 2 kg Trichoderma for fast decomposition ,Final produce mix with different cultures-PSB+ Azospirillum+ Azotobactor @ 2.5 L/ha at the time of spreading in the field. • Collection of manure two time in a year.
Source of technology	-	
Plot size	05	
No. of farmers	05	
Total cost	450	
Critical input	Trichoderma viridi, PSB, Azotobactor	
Performance indicators: (xiv) Technical- yield (q/ ha) (xv) Economic (xvi) Social – Employment	Quality of compost ,time of composting , economics	

generation	

OFT-9

Crop / Enterprise	Herbicide in Chickpea	
Title of on farm trial	Assessment of “Topramezon” herbicide for control of broad leaved weed	
Problem diagnosed	- Yield loss in chickpea from broad leaved weeds - Unavailability of post emergence herbicide for control of BLW in Chickpea. - Unavailability of labours for hand weeding in Chickpea during critical period of weed control	
Farmers’ Practices	No weeding in Chickpea	
Details of technologies selected for assessment	T ₁	Application of PE herbicide “Topramezon” for control of BLW in Chickpea at 20-25 DAS @ 19.4 g ai /ha
	T ₂	-
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	Rs. 4300/-	
Critical input	Post-Emergence herbicide “Topramezon”	
Performance indicators: (xvii) Technical- yield (q/ ha) (xviii) Economic (xix) Social – Employment generation	No. of weeds/m ² , No. of pods/plant, yield (q/ ha), Net Return and B:C Ratio	

OFT-10

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of heat tolerance wheat variety “Kanishka”	
Problem diagnosed	Low yield of wheat due to heat stress during growing period of crop caused forced maturity in initial stage of crop	
Farmers’ Practices	Lok-1	
Details of technologies selected for assessment	T ₁	Lok-1
	T ₂	Growing of heat tolerance variety of Wheat “Kanishka”
Source of technology	IGKV, Raipur	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	Rs. 1250/-	
Critical input	Seeds of Wheat variety “Kanishka”	
Performance indicators: (xx) Technical- yield (q/ ha) (xxi) Economic (xxii) Social – Employment generation	No. of spikelet/plant, yield (q/ ha), Net Return and B:C Ratio	

OFT-11

Crop / Enterprise	Onion
Title of on farm trial	Assessment of Onion production technology for kharif onion

Problem diagnosed	Cloudy weather & continuous drizzling which creates the problem of foliar as well as soil-borne diseases. Prices of onion increases very rapidly in October and remains high till January-February
Farmers' Practices	Kharif onion for bulb is not in practice
Details of technologies selected for assessment	T ₁ Kharif onion var. Bhima Super, Nursery raising in May-June & use of BBF T ₂ Kharif onion var. Bhima Dark Red, Nursery raising in May-June & use of BBF
Source of technology	Directorate of Onion and Garlic Research, Pune, Maharashtra, 2017
Plot size	2000 m ²
No. of farmers	04
Total cost	12000.0
Critical input	Seed of improved variety, BBF machine on hire basis
Performance indicators: (xxiii) Technical- yield (q/ ha) (xxiv) Economic (xxv) Social – Employment generation	Weight of tuber (g/tuber), tuber yield (q/ha.)

OFT-12

Crop / Enterprise	Turmeric
Title of on farm trial	Assessment of economics of turmeric cultivation using Mulching
Problem diagnosed	Low yield of turmeric due to unfavorable condition for weeding & earthing up
Farmers' Practices	Conventional method of turmeric cultivation
Details of technologies selected for assessment	T ₁ Turmeric cultivation under drip & mulching T ₂ -
Source of technology	PAU, Ludhiana, 2016
Plot size	2000 m ²
No. of farmers	04
Total cost	40000.0
Critical input	Mulching film, seed of improved variety
Performance indicators: (xxvi) Technical- yield (q/ ha) (xxvii) Economic (xxviii) Social – Employment generation	Plant height (cm), number of functional leaves per plant, Rhizome yield (g/plant), Rhizome yield (q/ha)

OFT-13

Crop / Enterprise	Gaillardia
Title of on farm trial	Assessment of Gaillardia for flower production during hot summer season
Problem diagnosed	Scarcity of flower & Low quality flower during hot summer
Farmers' Practices	Marigold
Details of technologies selected for assessment	T ₁ Gaillardia T ₂ -
Source of technology	-
Plot size	1000 m ²
No. of farmers	04
Total cost	14800.0
Critical input	Seed/seedlings of Gaillardia
Performance indicators: (xxix) Technical- yield (q/ ha) (xxx) Economic (xxxi) Social – Employment generation	No. of flowers per plant, fresh weight of flower (g), Flower Yield (g/plant), Flower Yield (q/ha)

OFT-14

Crop / Enterprise	Paddy/ Seed cum Fertilizer drill

Title of on farm trial	Assessment of line sowing of paddy at modify row to row spacing	
Problem diagnosed		
Farmers' Practices	Line sowing at 22.5 to 25 cm row to row spacing	
Details of technologies selected for assessment	T ₁	Line Sowing of Paddy at 15 cm row to row spacing
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	4	
Total cost	Rs. 8000/-	
Critical input	Seed cum fertilizer drill	
Performance indicators: (xxxii) Growth and Yield attributes (xxxiii) Technical- yield (q/ ha) (xxxiv) Economic (xxxv) Social – Employment generation	Seed rate kg/ha, No. of plant/m ² , No. of weed/m ² , Yield, B:C ratio	

OFT-15

Crop / Enterprise	Vegetable/ Weeder	
Title of on farm trial	Assessment of single row weeder for weeding in Vegetable crops	
Problem diagnosed	Weeding/labour cost, time consuming	
Farmers' Practices	Hand weeding, weeding by small tool	
Details of technologies selected for assessment	T ₁	Use of single row weeder in vegetable crop
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	0.1 ha	
No. of farmers	4	
Total cost	8000/-	
Critical input	single row weeder for weeding	
Performance indicators: (xxxvi) Growth and Yield attributes (xxxvii) Technical- yield (q/ ha) (xxxviii) Economic (xxxix) Social – Employment generation	Labour cost, weed population, time saving, yield, B: C ratio	

OFT-16

Crop / Enterprise	Mustard/ Inclined plate planter	
Title of on farm trial	Assessment of line sowing of mustard by inclined plate planter	
Problem diagnosed	Seed rate, excess plant population	
Farmers' Practices	Line sowing / broadcasting	
Details of technologies selected for assessment	T ₁	Line Sowing of mustard by inclined plate planter
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	4	
Total cost	10000/-	
Critical input	Inclined plate planter	
Performance indicators: (xl) Growth and Yield attributes (xli) Technical- yield (q/ ha) (xlii) Economic (xlili) Social – Employment generation	Seed rate kg/ha, No. of plant/m ² , Yield, B:C ratio	

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Refinement in use of chemicals against rice panicle mite <i>Stenotarsonemus spinki</i> Smiley
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	- Rice panicle mite, <i>Stenotarsonemus spinki</i> Smiley causes the yield losses (discoloured & chaffy grains) 4.90% to 23.70% . - Farmers unknown about spraying stages of the crop for better management of rice panicle mite
Thematic area:	Integrated Pest Management
No of trials:	06
No. of farmers involved	06
Type of OFT (Assessment/ Refinement):	Refinement
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spaying of Ethion or Hexythiazox or Abamectin at milking to Dough stage
T2 –Recommended Practice-	Spraying of Diafenthuron 50 % WP @ 1.50 ml/lit. + propiconazole 25 % EC @ 1.00 ml/lit.of water (Two spraying at booting and panicle initiation stages)
T3- Recommended Practice-	Spiromesifen 22.9% SC @ 1 ml/+ propiconazole 25 % EC @ 1.00 ml/lit.of water (Two spraying at booting and panicle initiation stages)
Date of sowing:	Last week of June to 1 st week of July 2024
Date of harvesting:	Last week of Oct. to 1 st week of Nov. 2024
Source of technology:	Acharya N.G. Ranga Agricultural University, Hyderabad, Telangana. 2013
Characteristics of technology:	Control of rice panicle mite, <i>Stenotarsonemus spinki</i> Smiley by spraying of Diafenthuron 50 % WP @ 1.50 ml/lit. + propiconazole 25 % EC @ 1.00 ml/lit.of water (Two spraying at booting and panicle initiation stages) and Spiromesifen 22.9% SC @ 1 ml/+ propiconazole 25 % EC @ 1.00 ml/lit.of water (Two spraying at booting and panicle initiation stages)
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 02

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Chlorantraniliprole & Indoxacarb for Tomato fruit borer, <i>Helicoverpa armigera</i> Hub. in tomato
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Tomato fruit borer, <i>Helicoverpa armigera</i> (Hubner), is the most destructive insect pest causing average percent damage to fruits is 24.65%, reducing the market value and quality of the fruit and found to cause a yield loss up to 35 %
Thematic area:	Integrated Pest Management
No of trials:	06
No. of farmers involved	06
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of insecticides (Emamectin Benzoate , Cartap Hydrochloride , Flubendiamide, Profenophos, Lambda Cyhalothrin , Thiamethoxam 12.6% + Lambda Cyhalothrin)
T2 –Recommended Practice-	Spraying of Chlorantraniliprole 18.5 SC @ 150 ml /ha 25 DAT, larval population crossed ETL and Indoxacarb 14.5 SC @ 450 ml /ha as soon as the larval population crosses ETL i.e. 48 DAT
T3- Recommended Practice-	-
Date of sowing:	Last week of June to 1 st week of July 2024
Date of harvesting:	2 nd week of Sep. to 2 st week of Dec. 2024
Source of technology:	Chaudhary Charan Singh Haryana Agricultural University, Hisar, 2022
Characteristics of technology:	Spraying of Chlorantraniliprole and Indoxacarb
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 03

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Entomopathogenic fungi, <i>Lecanicillium lecanii</i> for Management of Mustard aphid: <i>Lipaphis erysimi</i> Kalt.
Year/Season:	Rabi 2025
Farming situation:	Irrigated
Problem diagnosis:	Mustard Aphid (<i>Lipaphis erysimi</i>): This is a major pest

	of mustard. It causes loss to the crop from December to March. This insect can cause loss from 25-40 % Use of chemical insecticides that's are hazardous to living being
Thematic area:	Integrated Pest Management
No of trials:	06
No. of farmers involved	06
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Chemical management of mustard aphid (Diamethoate, Thiamethoxam, Imidachloprid, Imidachloprid + Chorpyriphos)
T2 –Recommended Practice-	Spraying of Entomopathogenic fungi, <i>Lecanicillium lecanii</i> @ 10 ml//lit. of water
T3- Recommended Practice-	-
Date of sowing:	1 st and 2 nd week of Dec. 2024
Date of harvesting:	2 nd and 3 rd week of March 2025
Source of technology:	National Institute of Plant Health Management, Department of Agriculture & Cooperation. Ministry of Agriculture, Government of India
Characteristics of technology:	Spraying of Entomopathogenic fungi, <i>Lecanicillium lecanii</i> @ 10 ml//lit. of water that is safer for living being and atmosphere
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 04

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM module for management of Diamond Back Moth, <i>Plutella xylostella</i> in cabbage
Year/Season:	Rabi 2025
Farming situation:	Irrigated
Problem diagnosis:	- The estimated losses by diamond back moth, <i>Plutella xylostella</i> in cabbage crop at least 17-99 percent - Use of more hazardous chemical insecticides
Thematic area:	Integrated Pest Management
No of trials:	06
No. of farmers involved	06
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of insecticides (Emamectin Benzoate, , Flubendiamide, Profenophos, Lambda Cyhalothrin, Indoxacarb, Indoxacarb + Novaluron)
T2 –Recommended Practice-	Three releases of <i>Trichogramma chilonis</i> @ 1 lakh/ha at 10 days interval after 30 DAT + one spray of Bt 10 ml/lit. of water at 15days after release of <i>Trichogramma</i> + one spray of Spinosad 2.5% SC @ 1.5 ml/ of water
T3- Recommended Practice-	-
Date of sowing:	2 nd and 3 rd week of Nov. 2024
Date of harvesting:	Last week of Feb. to 1 st week of March 2025
Source of technology:	Crop protection division, IIVR, Varanasi
Characteristics of technology:	3 releases of <i>Trichogramma chilonis</i> & spraying of Bt and Spinosad is safer for living being and atmosphere
Name of Crop/Enterprises:	Cabbage
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 05

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of soil test based fertilizer application on “Wheat”
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Farmers not applied fertilizer according to soil health card
Thematic area:	INM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of fertilizer without soil testing
T2 –Recommended Practice-	Recommendation of fertilizer after soil testing
T3- Recommended Practice-	-
Date of sowing:	Second week of Nov, 2024

Date of harvesting:	Third week of Feb, 2025
Source of technology:	IGKV
Characteristics of technology:	Soil sampling and analysis
Name of Crop/Enterprises:	Crop
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 06

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Leaf Color Chart(LCC) to improve nitrogen use efficiency in Rice
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Injudicious use of Urea
Thematic area:	INM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Fertilizer dose 120:60:40 kg/ ha (Basal 60 N+ top dress 30N &30N)
T2 –Recommended Practice-	Application of fertilizer according to LCC
T3- Recommended Practice-	-
Date of sowing:	Second week of July, 2024
Date of harvesting:	Last week of Nov, 2024
Source of technology:	IGKV
Characteristics of technology:	Low cost technology , fertilizer use efficiency
Name of Crop/Enterprises:	Crop
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 07

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Nano urea application on Rice crop
Year/Season:	Kharif 2024
Farming situation:	Irrigated

Problem diagnosis:	Timely unavailability of urea, poor management of urea, transportation & high cost
Thematic area:	Precision Agriculture
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Fertilizer dose 120:60:40 kg/ ha (Basal + top dress)
T2 –Recommended Practice-	50% N, 100% P & K (as basal)+ 2 spray of Nano urea @ 4ml/ liter (Top dress)
T3- Recommended Practice-	-
Date of sowing:	Second week July- 2024
Date of harvesting:	Last week of Nov, 2024
Source of technology:	-
Characteristics of technology:	Easy transportation ,easy handling and increase fertilizer use efficiency
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 08

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Smart Ghurwa Khad Technique
Year/Season:	Rabi 2024
Farming situation:	-
Problem diagnosis:	Traditional method requires long duration to decomposition ,not fully decomposed ,produce available once in a year
Thematic area:	INM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional method of Ghurwa Khad
T2 –Recommended Practice-	Base of ghurwa made compact with polythene sheet. divide of pit in 2 parts in particular size, added @ 2 kg/pit Trichoderma for fast decomposition ,Final produce mix with

	different cultures-PSB+ Azospirillum+ Azatobactor @ 2.5 L/ha at the time of spreading in the field. • Collection of manure two time in a year.
T3- Recommended Practice-	-
Date of sowing:	Last week of Dec- 2024
Date of harvesting:	Second week June, 2024
Source of technology:	-
Characteristics of technology:	Collect good quality of compost , high nutrient percentage
Name of Crop/Enterprises:	Enterprises
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 09

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of “Topramezon” herbicide for control of broad leaved weed
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Unavailability of post emergence herbicide for control of Broad leaved weeds in Chickpea.
Thematic area:	ICM
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No weeding in Chickpea
T2 –Recommended Practice-	Hand weeding in Chickpea
T3- Recommended Practice-	Application of PE herbicide “Topramezon” for control of BLW in Chickpea at 20-25 DAS @ 19.4 g ai /ha
Date of sowing:	First Week of November
Date of harvesting:	Second week of March
Source of technology:	IGKV, Raipur
Characteristics of technology:	Topramezon is a post emergence herbicide recommended for control of broad leaved weeds in chickpea
Name of Crop/Enterprises:	Herbicide in Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 10

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of heat tolerance wheat variety "Kanishka"
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low yield of wheat due to heat stress during growing period of crop caused forced maturity in initial stage of crop
Thematic area:	Varietal evaluation
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Lok-1 / PBW 343
T2 –Recommended Practice-	Growing of heat tolerance variety of Wheat "Kanishka"
T3- Recommended Practice-	-
Date of sowing:	First Week of December
Date of harvesting:	First week of April
Source of technology:	IGKV, Raipur
Characteristics of technology:	Kanishka variety of wheat has character of heat tolerance
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 11

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Onion production technology for kharif onion
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Cloudy weather & continuous drizzling which creates the problem of foliar as well as soil-borne diseases. Prices of onion increases very rapidly in October and remains high till January-February
Thematic area:	Integrated Crop Management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Kharif onion for bulb is not in practice
T2 –Recommended Practice-	Kharif onion var. Bhima Super, Nursery raising in May-June
T3- Recommended Practice-	Kharif onion var. Bhima Dark Red, Nursery raising in May-June
Date of sowing:	June, 2023
Date of harvesting:	Oct-Nov, 2023
Source of technology:	Directorate of Onion and Garlic Research, Pune, Maharashtra , 2017
Characteristics of technology:	The Onion varieties are suitable for Kharif season & BBF technology provide protection from damping off disease
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 12

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture

Title of on-farm trial:	Assessment of economics of turmeric cultivation using Mulching
Year/Season:	Kharif 2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield of turmeric due to unfavorable condition for weeding & earthing up
Thematic area:	Integrated Crop Management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Conventional method of turmeric cultivation
T2 –Recommended Practice-	Turmeric cultivation under drip & mulching
T3- Recommended Practice-	-
Date of sowing:	June, 2023
Date of harvesting:	Feb-March, 2024
Source of technology:	PAU, Ludhiyana, 2016
Characteristics of technology:	Mulching technology can solve the problem of weed in turmeric crop
Name of Crop/Enterprises:	Turmeric
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT: 13

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Gaillardia for flower production during hot summer season
Year/Season:	Summer 2023
Farming situation:	Irrigated
Problem diagnosis:	Scarcity of flower & Low quality flower during hot summer
Thematic area:	Varietal evaluation
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Marigold

T2 –Recommended Practice-	Gaillardia
T3- Recommended Practice-	-
Date of sowing:	Feb- 2023
Date of harvesting:	May-June, 2023
Source of technology:	-
Characteristics of technology:	Gaillardia can flower during hot summer
Name of Crop/Enterprises:	Gaillardia
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-14

Name of Discipline	Agricultural Engineering
Title of on-farm trial:	Assessment of line sowing of paddy at modify row to row spacing
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	
Thematic area:	AEG
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Line sowing at 22.5 to 25 cm row to row spacing
T2 –Recommended Practice-	Line Sowing of Paddy at 15 cm row to row spacing
T3- Recommended Practice-	
Date of sowing:	June 2024
Date of harvesting:	November 2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Sowing seeds at proper depth. complete soil coverage of seeds. Protection of seeds from birds. contributes in weeding
Name of Crop/Enterprises:	Paddy/Seed cum fertilizer drill
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-15

Name of Discipline	Agricultural Engineering
Title of on-farm trial:	Assessment of single row weeder for weeding in Vegetable crops

Year/Season:	2024/rabi
Farming situation:	Irrigated
Problem diagnosis:	Weeding/ labour cost, time consuming
Thematic area:	AEG
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Hand weeding, weeding by small tool
T2 –Recommended Practice-	Use of single row weeder in vegetable crop
T3- Recommended Practice-	
Date of sowing:	November 2024
Date of harvesting:	January 2025
Source of technology:	IGKV, Raipur
Characteristics of technology:	Weeder is suitable for operation between the crop row. Weeding is done by the rotary weeding attachment.
Name of Crop/Enterprises:	Paddy/Sprinkler irrigation system
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-16

Name of Discipline	Agricultural Engineering
Title of on-farm trial:	Assessment of line sowing of mustard by inclined plate planter
Year/Season:	2024/rabi
Farming situation:	Rainfed /irrigated
Problem diagnosis:	Seed rate, excess plant population
Thematic area:	AEG
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Line sowing / broadcasting
T2 –Recommended Practice-	Line Sowing of mustard by inclined plate planter
T3- Recommended Practice-	
Date of sowing:	November 2024
Date of harvesting:	March 2025
Source of technology:	IGKV, Raipur
Characteristics of technology:	To sow seeds of proper row width into soil for creating evenly spaced crop rows and metered seed gaps.

Name of Crop/Enterprises:	Mustard/Inclined plate planter
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details
-	-

Information about Home Science OFT:

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

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

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Paddy	Integrated Pest Management	Neem oil based ITK	Neem oil	Kharif 2024-25	4.80	12	No. DH & WEH / Sq.m, % Leaf damage, yield (q/ha), B:C ratio
2	Maize	Integrated Pest Management	IPM module-pheromone traps, <i>Metarhizium</i> , Emamectin benzoate 5 SG and Chlorantraniliprole 18.5% SC	Pheromone traps, <i>Metarhizium</i> , Emamectin benzoate and Chlorantraniliprole	Rabi 2024-25	4.80	12	% plant damage, Catches male moth/weak, yield, B:C ratio
3	Vermicompost	INM	Demonstration on low cost "heap method" of vermicomposting	Worms	Kharif 2024	Size 12x 4x1.5	12	Time of composting, quality, B:C Ratio
4	Mustard	INM	Demonstration on application of nitrogen in split dose in Mustard	Fertilizer-Urea	Rabi 2024	5.0	12	Number of siliqua /plant, yield, B:C Ratio
5	Rice	ICM	Use of algicide to control algae in rice	CuSO ₄	Kharif 2024	5	12	No of tiller per m ² , yield and economics

6	rice	CP	Organic cultivation of scented Rice	Rice scented variety	Kharif 2024	8	25	No of tiller per m ² and economics
7	Coriander	Integrated crop management	FLD on HYV C.G. Shree Chandrahashni Dhaniya-2 of Coriander with improved package of practices.	Seed, Trichoderma viridi, PSB culture	Rabi 2023	4.0	10	No. of umbels per plant, seed yield (q/ha), B: C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6	October February, March 2025	160
2	Farmers Training	20	June, July, August, October, November ,December 2024, January 2025	510
3	Media coverage	8	August, December 2024 January 2025	Mass
4	Training for extension functionaries	6	June, November 2024, February 202	120

Details of FLD on Enterprises Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Seed cum fertilizer drill	Coriander	Rabi 2024	12	5	seed cum fertilizer drill for sowing of coriander	Seed saving (kg/ha), No. of plants/m ² , No. of branches/plant, yield, B:C ratio	Seed saving (kg/ha), No. of plants/m ² , No. of branches/plant, yield, B:C ratio	Seed saving (kg/ha), No. of plants/m ² , No. of branches/plant, yield, B:C ratio
Seed cum fertilizer drill	Wheat	Rabi 2024	12	5	seed cum fertilizer drill for sowing of wheat	Seed saving (kg/ha), No. of plants/m ² , yield, B:C ratio	Seed saving (kg/ha), No. of plants/m ² , yield, B:C ratio	Seed saving (kg/ha), No. of plants/m ² , yield, B:C ratio

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of	No. of	Critical	Performance	* Data on parameter in

		farmers	animals, poultry birds etc.	inputs	parameters / indicators	relation to technology demonstrated	
						Demo.	Local check

**Milk production, meat production, egg production, reduction in disease incidence etc.*

Other Enterprises

Enterpris e	Variety/ breed/Speci es /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No .	Crop	Thema tic area	Technology for demonstration	Critical inputs	Season and year	Are a (ha)	No. of farmers/ demonstration	Parameters identified

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1				
2				

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	2	1	30	10	40	8	2	10	50
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	--	-	-	-	-	-	-	-	-
Seed	2	1	40	0	40	8	2	10	50

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	03	1	-	36	-	7	7	7	43
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-
Total	03	1	-	36	-	7	7	7	43
VI Agril. Engineering									
Total	10	1 day	108	32	140	58	20		78
VII Plant Protection									
Integrated Pest	3	1	60	0	60	15	0		75

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others				SC/ST			Grand Total
			Male	Female		Total	Male	Female		Total
issues										
Total	01	01	0	32	-	32	5	-	-	5
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-
Grand Total	52	1	580	222	802	167	130	304	1133	
(B) RURAL YOUTH										
Mushroom Production	9	3	0	15	15	0	15	15	270	
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Seed production	1	1	20	0	20	5	0	5	25	
Planting material production	1	1	20	0	20	5	0	5	25	
Vermi-culture	02	0 1	07	22	29	02	11	13	42	
Value addition	-	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	02	1	5	10	15	15	20	35	50	
Para extension workers	-	-	-	-	-	-	-	-	-	-
TOTAL	15	-	52	47	99	27	46	73	412	
(C) Extension Personnel										
Productivity enhancement in field crops	2	1	35	5	40	15	5	20	60	
Integrated Pest Management	2	1	35	5	40	15	5	20	60	
Integrated Nutrient management	2	1	35	5	40	15	5	20	60	
Protected cultivation technology	2	1	35	5	40	15	5	20	60	

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	2	1	35	5	40	15	5	20	60
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL	12	1	210	30	240	90	30	120	360

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	2	1	30	10	40	8	2	10	50
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-
Integrated Farming									
Water	2	1	40	0	40	10	0	10	50

of low/minimum cost diet									
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-
Total									
VI Agril. Engineering	6	1	120	0	120	30	0	30	150
VII Plant Protection	-	-	-	-	-	-	-	-	-
Integrated Pest Management	3	1	60	0	60	15	0	15	75
Integrated Disease Management									
Bio-control of pests and	3	1	60	0	60	15	0	15	75

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
August 2023	-	Weed management	1	3	10	40	8	2	10	50
July 2023	-	Seed production technique	1	40	0	40	8	2	10	50
October 2023	-	Integrated Crop Management	1	40	0	40	10	0	10	50
Horticulture										
August 2023	-	Vegetable production technique	1	40	0	40	8	2	10	50
July 2023	-	Turmeric seed production	1	40	0	40	8	2	10	50
October 2023	-	Coriander Production Technique	1	40	0	40	8	2	10	50
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Home Science										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Plant Protection										
June 2023	-	Integrated Pest Management	1	60	0	60	15	0	15	75
August 2023	-	Integrated Disease Management	1	60	0	60	15	0	15	75
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Soil Science										

June 2023	-	Soil fertility management	1	18	16	34	4	8	14	48
August 2023	-	Integrated Nutrient management	1	11	15	26	7	11	18	44
October 2023	-	Production and use of organic input	1	18	19	37	6	11	17	81
October 2023	-	Micro nutrient deficiency in crop	1	7	6	13	4	6	15	28
December 2023	-	Nutrient Use Efficiency	1	12	15	27	6	13	19	46

2. Off Campus

[illegible]

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Home Science										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Plant Protection										
July 2023	-	Integrated Pest Management	1	60	0	60	15	0	15	75
September 2023	-	Integrated Disease Management	1	60	0	60	15	0	15	75
April,2024	F & FM/ RURAL YOUTH	Low cost Trichoderma production Technique	01	10	10	20	05	05	10	30
May, 2024	F & FM/ RURAL YOUTH	Low cost Trichoderma production Technique	01	10	10	20	05	05	10	30
Nov, 2024	F & FM/ RURAL YOUTH	Low cost Trichoderma production Technique	01	10	10	20	05	05	10	30
Dec, 2024	F & FM/ RURAL YOUTH	Low cost Trichoderma production Technique	01	10	10	20	05	05	10	30
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
April,2024	F & FM	Oyster Mushroom Production Technique	02	10	10	20	05	05	10	30
May, 2024	F & FM	Oyster Mushroom Production Technique	02	10	10	20	05	05	10	30
Oct, 2024	F & FM	Oyster Mushroom Production Technique	02	10	10	20	05	05	10	30
Nov, 2024	F & FM	Oyster Mushroom Production Technique	02	10	10	20	05	05	10	30
Dec, 2024	F & FM	Oyster Mushroom Production Technique	02	10	10	20	05	05	10	30

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Soil Science										
June 2023	-	Soil fertility management	01	12	13	25	09	11	20	45
July 2023	-	Fertilizer use efficiency	01	12	13	25	09	12	21	46
Oct 2023	-	Vermicompost production	01	12	13	25	09	12	21	46
November 2023	-	Compost management	01	12	13	25	09	13	22	47

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

[illegible]

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Scientific visit to farmers field	150	500	100	600	4	2	6	504	102	606
Farmers visit to KVK	1500	1200	300	1500	3	2	5	1203	305	1500
Diagnostic visits	150	250	50	300	10	5	15	260	55	315
Exposure visits	2	150	50	200	0	0	0	150	50	200
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	-
Soil health Camp	5	200	50	250	1	1	2	201	51	252
Animal Health Camp	2	100	0	100	4	2	6	104	2	106
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	1	50	0	50	0	2	2	50	2	52
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	5	0	60	60	0	0	0	0	60	60
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	5	120	30	150	6	4	10	126	34	150
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	1960	4540	1270	5810	67	37	104	4607	1312	5899

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	Vikram TCR	150.00
	Scented rice	CG Jawaphool trombey	15.00
	Ragi	Chhattisgarh ragi-3	6.00
OILSEEDS	Soybean	JS-20116	120.00
PULSES	Chickpea	CG chana -2	70.00
	Lathyrus	Mahathiwara	50.00
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)	Coriander	CG shri chandrahasini dhaniya-2	20.00
	Sunhemp	JRJ-610	5.00
	Turmeric	Roma	50.00

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava	Allahabad Safeda	2010
	Pomegranate	Super Bhagwa	500
	Jackfruit	Local	930
	Papaya	Red lady	224
	Karounda	Seeded	14125
	Lime	Kagji lime	189
	Beal	Local	1273
	Mango	Seeded (root stock)	358
SPICES	Turmeric (pro-tray nursery)	Roma	120000
VEGETABLES	Tomato	Kashi adarsh	10000
	Brinjal	Pant samrat	10000
	Knolkhol	Hybrid	5000
	Cabbage	Hybrid	5000
	Cauliflower	Hybrid	5000
	Moringa	PKM-1	2500
	Chilli	Hybrid	5000
FOREST SPECIES	-	-	
	-	-	
	-	-	
ORNAMENTAL CROPS	Marigold	Pusa Basanti	5000.00
	Marigold	Pusa Narangi	5000.00
	Gaillardia	Local	20000.00
PLANTATION CROPS			
Others (specify)	Marigold	Pusa Basanti	

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	<i>Rhizobium</i>			
3				
BIOFERTILIZERS				
1	Vermicompost	-	-	20000
2	NADEP	-	-	
3				
BIO PESTICIDES				
1	Dasparni ark			

2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-	-	-	-
SHEEP AND GOAT	-	-	-	-
POULTRY	Quail	Japanese quail	28000	-
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
January 2023	Quarterly	PDF form of KVK newsletter will be developed and circulated online
April 2023	Quarterly	
July 2023	Quarterly	
October 2023	Quarterly	

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Nil	Nil	Nil

Success stories/Case studies identified for development as a case: 4

Indicate the specific training need analysis tools/methodology followed for (Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Ruhi	Patan	13

1. No. of farm families selected per village :

2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: NA

List of equipments purchased: Nil

Sl. No.	Name of the Equipment	Qty.	Condition
1	-	-	-

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	NA	NA	NA	NA
Water Samples	NA	NA	NA	NA
Total	NA	NA	NA	NA

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
State agriculture department	Short Term Research Extension Project

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
Short Term Research Project (SREP)	Research trial to be conducted at farmers fields

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Action plan for Flagship programmes implemented at KVK

Name of Flagship programmes-NICRA

Month	Activity details	Targeted

		Beneficiaries /Area/Coverage
Jan	- Demonstration of green gram in place of summer paddy - Animal Health Camp - Training on quail farming - Demonstration on quail farming	10 50 20 10
Feb	- Training & demonstration on vermicomposting - Training & Demonstration of Azolla cultivation - Meeting under VCRMC	20 20
March	- De-silting & cleaning of irrigation canal - Field day on heat tolerance late sown wheat	- 100
April	- Awareness camp on Soil health & collection of soil sample - Field day on BBF - Training on crop residue management	50 100 30
May	- Training on climate resilient technology for kharif season - Demonstration of vegetable under mulching	30 10
June	- DSR in Rice - Green Manuring of Dhaincha in rice field - Short duration pigeon pea on rice bund	20 20 40
July	- Animal health camp - Demonstration of Napier for the availability of green fodder	50 10
August	- Demonstration & training on nutritional garden - Meeting under VCRMC	20
September	- Demonstration on Preventive spray of pesticide for the control of Rice panicle mite - Meeting under VCRMC - Exposure visit on BBF, Vermicomposting, Mushroom cultivation & precision farming	10
October	- Improved Utera of lathyrus - Training on climate resilient technology for Rabi season	20 12
November	- Chickpea under BBF - Demonstration on heat tolerance & late sown var. Kanishka of Wheat under zero till seed cum ferti drill - Preventive control of Mustard Aphid	20 20 20
December	Demonstration & training on mushroom cultivation	10

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 135 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	C.G. Devbhog	Scented variety of Rice	20
		C.G. Trombey Dubraj	Scented variety of Rice	20
		Dubraj Selection -1	Scented variety of Rice	20
		C.G. Javaful Mutant 1	Scented variety of Rice	20

		Swarna	Crop duration- 145-150 days	20
		MTU-1010	Crop duration- 110-115days	20
		MTU-1318	Crop duration- 145-150 days	20
		C.G. Dhan 1919	-	20
		Vikram TCR	-	20
Wheat	Rabi	C.G. -1023	-	20
		C.G. -1036	-	20
		C.G. -1029	-	20
		C.G. -1040	-	20
		C.G. -1044	-	20
		C.G. Gehu-4	-	20

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermicompost Production unit	25 pit (3.1x 0.78)	60.45	350 q
Azola demonstration unit	02 (2.7x1.8)	10	Used for demonstration purpose
Quail breeding unit	01(9.1x4.5)	41.8	12000 chicks
Mushroom spawn production unit	01 (9.1x4.5)	41.8	150 q

KVK Gariaband

Year of sanction: 2012

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Manish Chourasia		8249307840	Kvk.gariaband@igkv.ac.in

1.2 Staff Position on (31th Dec.2023)

[illegible]

1.3 Total land with KVK (in ha): 20.00

S. No.	Item	Area (ha)
1	Under Buildings	2.00
2	Under Demonstration Units	2.50
3	Under Crops	11.50
4	Orchard/Agro-forestry	2.00
5	Others (specify)	2.00
Total		20.00

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2021	550	1.40 Cr.	2018	-	complete
2	Farmers Hostel	-	-	-	-	-	-	
3	Staff Quarters (6)	-	-	-	-	-	-	
4	Demonstration Units (Vermicompost, NADEP)	Zila panchayat	10.02.2020	100	4.58 Lac	-	-	complete
5	Fencing							
6	Rain Water harvesting system	-	2018	225	-	2017	-	complete
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	RKVY, SMSP	2022	450	0.35 Cr	2020	-	complete

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Motor Cycle 1	2014	45000		
Bolero(Jeep)	2018	577103		
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2012	53492.00	
Xerox Machine	2012	39421.00	
Video Camera (Handy cam model)	2013	49750.00	
Computer, Laser Printer	2012	38934.00	
UPS 600 VA (400 VA)	2012	5831.00	
Laptop	2020	48000.00	

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	15 June 2024
2	

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Chhattisgarh Plain (Blocks - Fingeshewar, Chhura, Mainpur, Devbhog and Gariyaband)
2	AES – 2	
3	AES – 3	
4		
5		
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Chhattisgarh Plain
2	AES - 2	
3	AES – 3	
4	AES – 4	
5	AES – 5	
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district AES-1 (name)

Strength	Weakness	Opportunities	Threats
- Water availability - Relatively low consumption of chemical fertilizer use by farmers - Easy approach to connect capital	- Imbalanced use of fertilizer by farmers. - Lack of awareness about improved and hybrid varieties. - Lack of Knowledge about improved cultivation practices. - Lack of use of agriculture equipments.	Better input use and their management through IPM, IDM and INM technologies for increasing crop production Popularization of improved variety of vegetables Need to organize vocational trainings on fisheries, mushroom production, vermin compost production, sericulture, lac cultivation, dairy etc, for self employment of rural youth Women Empowerment in Agriculture and Entrepreneurship development among farm women Processing and value addition of fruits and vegetables Post harvest technology Production and use of Organic inputs Improved variety & seed in horticulture Nursery management in horticulture Lac cultivation	Low income of farm families & Seasonal unemployment.

AES-2 (name)

Strength	Weakness	Opportunities	Threats
☐	☐	☐	☐

AES-3 (name)

Strength	Weakness	Opportunities	Threats
☐	☐	☐	☐

AES-4 (name)

Strength	Weakness	Opportunities	Threats
☐	☐	☐	☐

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	585494
Forest	295000
Waste Land	26654
Other than cultivated area	3560
Cultivable waste and alkaline land	-
Pastures	29157
Bushes	-
Current Fallow	5887
Other Fallow	3717
Agricultural Land	225547
Area Sown	225373
Kharif	4840
Rabi	41807
Zaid	-
Cropping Intensity	155 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	39398
2	Well	2552
3	Tube well	26500
4	Ponds	1510
5	Others	3640

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Entisols		1.8447
2	Inceptisols		4.6325
3	Alfisols		2.8399
4	Vertisols		3.5350
5	Alluvial		1.6441

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
1	Rice	104132	2464.80	23.80
2	Maize	17240	773.70	43.70
3	Black gram	8654	37.20	4.30
4	Pigeon pea	5384	47.00	8.45
5	Groundnut	4160	63.20	15.20

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	0.00	30.07	8.51
Feb. 2023	0.00	32.73	10.30
Mar. 2023	19.40	36.10	17.40
Apr. 2023	59.90	37.48	20.53
May. 2023	22.10	39.71	22.19
Jun. 2023	172.40	40.20	23.72
July. 2023	274.80	32.31	24.12
Aug. 2023	95.20	30.95	23.38
Sept. 2023	195.20	31.50	23.33
Oct. 2023	25.20	32.58	18.19
Nov. 2023	0.00	31.48	14.74
Dec. 2023	0.00	0.00	0.00

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	92844	14645 MT.	157.73 kg
Buffalo	16820	7337.5 MT.	436.23 kg
Sheep			
<i>Crossbred/ Indigenous</i>	7716	12.63 MT wool	1.63 kg
Goats	40295	0.46 MT	0.011 kg
Pigs <i>Crossbred/ Indigenous</i>	7139	0.06 MT	0.008
Rabbits	-	-	-
Poultry			
Hens	108959	0.75 Lakh eggs	0.69 eggs/ bird/yr
Turkey and others	4191	-	-
Category	Area	Production	Productivity
Fish	6812.50 (ha)	25351.00 (q)	3.72 q/ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Gariyaband	Fingeshwar	Kopra	Paddy, Vegetables, Fisheries	- Imbalanced use of fertilizer by farmers. - Lack of awareness about improved and hybrid varieties. - Lack of Knowledge about improved cultivation practices. - Low income of farm families & Seasonal unemployment.	- Popularization of improved variety of vegetables. - Promotion of Integrated farming system - Promotion of improved varieties of prominent cereal, oilseed and pulse crops grown in the district. - Improved variety & seed in horticulture. - Nursery management in horticulture
2	Gariyaband	Chhura	Khatti	Paddy		
3	Gariyaband	Chhura	Atarmara	Paddy		
4	Gariyaband	Chhura	Panduka	Paddy		
5	Gariyaband	Chhura	Rajankatta	Paddy, Chickpea		
6	Gariyaband	Chhura	Pachpedi	Paddy		
7	Gariyaband	Gariyaband	Maalgaon	Paddy		
8	Gariyaband	Gariyaband	Sadohli	Paddy		
9	Gariyaband	Gariyaband	Fulkarra	Paddy		
10	Gariyaband	Gariyaband	Tavarbahara	Paddy		
11	Gariyaband	Gariyaband	Mardakala	Chickpea		
12	Gariyaband	Gariyaband	Kochway	Paddy, Vegetables		
13	Gariyaband	Gariyaband	Hardi	Paddy		
14	Gariyaband	Gariyaband	Patharmohanda	Paddy		
15	Gariyaband	Gariyaband	Kokdi	Paddy		
16	Gariyaband	Gariyaband	Bindranavagadh	Paddy		
17	Gariyaband	Gariyaband	Khamhari	Mustard		

Priority / Thrust areas

S. No.	Particulars
1.	Declining soil Fertility due to rice-rice cropping system
2.	Less productivity in pulses due to use of local varieties with less yield potential
3.	Low yield of gram due to incidence of wilt disease
4.	Low yield of wheat due to imbalanced use of fertilizer and late sowing
5.	Low yield in Vegetables due to local variety
6.	Nutrient exhaustion due to heavy feeder crop
7.	Poor yield due to improper nutrient management practices
8.	Injudicious use of N & P and no use of K & micronutrient in rice, maize and Blackgram
9.	Unemployment of rural youths
10	Poor accessibility of health care and poor adoption of management practices
11.	Lack of use of farm equipments

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
15	112	14	124

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
50	1500	250	5000

Seed Production (Qtl.)	Planting material (Nos.)
450.00	16500

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal Assessment	Rice	Insect-pest infestation (BPH, Panicle mite)	Assessment of Rice var. MTU 1153					
2	Varietal Assessment	Wheat	Low yield due to late sowing of wheat	Assessment of Wheat var. CG 1029 (Kanishka) under late sown irrigated conditions					
3	Natural farming	Chickpea	Reduction in soil fertility due to continuous use of chemical fertilizers	Assessment of Chickpea under Natural farming practices					
4	INM	Rice	Imbalance Nutrient Management	Assessment of foliar application of Nano Urea in Rice					
5	INM	Chickpea	Imbalance Nutrient Management	Assessment of foliar application of WSF (19:19:19) NPK in Chickpea					
6	INM	Mustard	Imbalance Nutrient Management	Assessment of foliar application of WSF					

				(19:19:19) NPK in Mustard					
7	IPM	Brinjal	Not using IPM technology	Assessment of IPM technology for management of Brinjal shoot and fruit borer					
8	IPM	Rice	Resistance development on insects for insecticides which used regularly by farmers	Assessment of IPM technology for BPH in Rice					
9	IPM	Cauliflower	Lack of knowledge about trap crops and better substitute for chemical insecticides, resistance development in DBM for few insecticides	Assessment of Biological management technique against DBM in cauliflower					
10	Pest Management	Mustard	Using chemical pesticides	Assessment of biopesticides (neem oil and Dashparni ark) for management of Mustard aphid					
11	Precision Agriculture (Farm Mechanization)	Paddy	High seed rate, Poor germination due to no proper depth and coverage of seed into soil	Assessment on Seed cum fertilizer drill for line sowing of Rice					
12	Water Management	Tomato	Excess soil moisture due to uncontrolled irrigation method causes pests and disease problems	Assessment of Drip Irrigation on yield of Tomato					
13	Resource Conservation technology	Lathyrus			Demonstration on Utera technique in Lathyrus				
14	Varietal Demonstration	Mustard			Demonstration of Mustard				

					var. CG Sarson – 1				
15	Nutrient Management	Rice			Demonstration of Nutrient Management in Rice				
16	Nutrient Management	Wheat			Demonstration of Nutrient Management in Wheat				
17	IPM	Chickpea			Integrated Pest Management in Chickpea Pod Borer				
18	IPM	Rice			Integrated pest management in rice				
19	Precision Agriculture (Farm Mechanization)	Paddy			Demonstration of Combine Harvester for Paddy Crop				
20	Precision Agriculture (Farm Mechanization)	Paddy			Demonstration on Disc Harrow for Crop Residue Management				

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Variety assessment	2									2
Natural Farming			1							1
Weed Management										0
Nutrient Management	1	1	1							3
IPM	1	1			2					4
Agriculture Engineering	1				1					2
ICM										0
TOTAL	5	2	2		3					12

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
-	-	-	-	-	-	-	-	-
TOTAL	0	0	0	0	0	0	0	0

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise		
Title of on farm trial		
Problem diagnosed		
Farmers' Practices		
Details of technologies selected for assessment	T ₁	
	T ₂	
	T ₃	Rows can be added if necessary
Source of technology		
Plot size		
No. of farmers		
Total cost		
Critical input		
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation		

OFT -2

1	Enterprise	
2	Title of on-farm trial	
3	Problem diagnosed	
4	Farming situation	
5	Production system and thematic area	
6	Farmers' practices	
7	Details of technologies selected for assessment/refinement Treatments	T ₁ T ₂ (Rows can be added if necessary)
8	Source of technology	
9	No. of animals	
10	No. of farmers	
11	Critical input	
12	Cost of input	
13	Total cost	
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Rice var. MTU 1153
Year/Season:	Kharif, 2024
Farming situation:	Rainfed Midland
Problem diagnosis:	Insect-pest infestation (BPH, Panicle mite)
Thematic area:	
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cultivation of rice variety MTU – 1010
T2 –Recommended Practice-	Rice var. MTU-1153 Non lodging, tolerant to BPH and Blast with low grain shattering , Duration - 120 days, Yield- 45- 50 q/ha, Released in 2015 from RARS, Maruteru, AP
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur(2015)
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Wheat var. CG 1029 (Kanishka) under late sown irrigated conditions
Year/Season:	Rabi, 2024
Farming situation:	Irrigated Lowland / Midland
Problem diagnosis:	Low yield due to late sowing of wheat
Thematic area:	
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cultivation of wheat variety GW 366
T2 –Recommended Practice-	Wheat var. CG 1029 (Kanishka) Duration 115-120 days, potential yield 45-50 q/h 2015 from RARS, Maruteru, AP
Date of sowing:	-
Date of harvesting:	-

Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Chickpea under Natural farming practices
Year/Season:	Rabi, 2024
Farming situation:	Irrigated Midland
Problem diagnosis:	Reduction in soil fertility due to continuous use of chemical fertilizers
Thematic area:	
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Conventional method
T2 –Recommended Practice-	Seed treatment with Beejamrit + soil application of Ghanjeevamrit @250kg/ha + Jeevamrit @ 500 lit / ha /+Spray of Neemastra / Bramhastra
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKV, Gwalior
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of foliar application of Nano Urea in Rice
Year/Season:	Kharif, 2024
Farming situation:	Semi irrigated / Lowland
Problem diagnosis:	Imbalance Nutrient Management
Thematic area:	
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalanced fertilizer application (64:46:30), NPK Kg/ha
T2 –Recommended Practice-	T1 = (64 : 46 : 30) NPK Kg/ha T2 = (100:60:40) NPK Kg/ha (RDF) T3 = (50 : 60: 40) NPK Kg/ha + Two foliar application of IFFCO Nano urea (2-4 ml per lit) @ 25- 30 DAT and 55-60 DAT
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Indian Farmers Fertilizer Cooperative Ltd, IFFCO, New Delhi (2020)
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of foliar application of WSF (19:19:19) NPK in Chickpea
Year/Season:	Rabi, 2024
Farming situation:	Semi irrigated / Midland
Problem diagnosis:	Imbalance Nutrient Management
Thematic area:	INM
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Fertilizer dose (18:46:15) NPK kg/ha, No use of WSF
T2 –Recommended Practice-	T1 = (18:46:15) NPK Kg/ha T2 = (18:46:15) NPK Kg/ha + Two foliar application of WSF (19:19:19) NPK @ 25 DAS and 50 DAS (5-6 gm per lit)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	TNAU, Coimbatore (2019)
Characteristics of technology:	

Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc.)	Soil Science
Title of on-farm trial:	Assessment of foliar application of WSF (19:19:19) NPK in Mustard
Year/Season:	Rabi, 2024
Farming situation:	Semi irrigated / Midland
Problem diagnosis:	Imbalance Nutrient Management
Thematic area:	INM
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Fertilizer dose (64:46:30) NPK kg/ha, No use of WSF
T2 –Recommended Practice-	T1 = (64:46:30) NPK kg/ha T2 = (64:46: 30) NPK Kg/ha + Two foliar application of WSF (19:19:19) @ 25-30 DAS and 50-60 DAS (5-6 gm per lit)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	TNAU, Coimbatore (2019)
Characteristics of technology:	
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of IPM technology for management of Brinjal fruit and shoot borer
Year/Season:	Kharif,2024
Farming situation:	Irrigated
Problem diagnosis:	Not using IPM technology
Thematic area:	IPM
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of chemical insecticide
T2 –Recommended Practice-	T2: Use of pheromone trap 5 trap/acre for mass collection, replace lures with fresh lures after every 15-20 days interval. Release egg and larval parasitoids <i>Trichogramma</i> 1-1.5 lakh/ha, 4-5 times at weekly intervals and using <i>Bracon sp.</i> If borer incidence crosses ETL 5% infestation, apply Chlorantraniliprole 18.50% SC 60ml/acre, Emamectine benzoate 5%SG 80-100g/acre
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV,Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of IPM technology for BPH in Rice
Year/Season:	Kharif,2024
Farming situation:	Irrigated
Problem diagnosis:	Resistance development on insects for insecticides which used regularly by farmers.
Thematic area:	IPM
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Not using recommended dose of insecticides and using same insecticides from many years.

T2 –Recommended Practice-	Alternate wetting and drying technique, spray Azadiractine 500ppm @2.5ml/lit., <i>Metarhizium anisoplea</i> 1.15%WP 3gram/liter, Light traps 5traps/acre, Buprofenzine 25% 300ml/acre
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	Krishi Darshika, IGKV (2023)
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Biological management technique against DBM in cauliflower
Year/Season:	Rabi,2024
Farming situation:	Irrigated
Problem diagnosis:	Lack of knowledge about trap crops and better substitute for chemical insecticides, resistance development in DBM for few insecticides
Thematic area:	IPM
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Using chemical insecticides indoxacarb
T2 –Recommended Practice-	1.Grow mustard as trap crop. Raise 2 rows of mustard for every 25 rows of cauliflower, sow first mustard crop 15 days prior to cauliflower planting. 2. Install pheromone trap for management of DBM adults @ 5 traps/acre 3. Spray of Neem oil 2ml/liter 4. Reduce insects colonizing on mustard to prevent defoliation of entire plant by applying Spinosad 45 SC 0.01% at 15 days interval starting from 15 days after sowing.
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	Krishi Darshika, IGKV (2023)
Characteristics of technology:	
Name of Crop/Enterprises:	Cauliflower
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of biopesticides (neem oil and Dashparni ark) for management of Mustard aphid
Year/Season:	Rabi,2024
Farming situation:	Irrigated
Problem diagnosis:	Using chemical pesticides
Thematic area:	IPM
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Using chemical insecticides
T2 –Recommended Practice-	Preparation of Dashparni ark, Application after observing aphids on field and repeating after 15 days interval.
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	Krishi Darshika, IGKV (2023)
Characteristics of technology:	
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering
Title of on-farm trial:	Assessment on Seed cum fertilizer drill for line sowing of Rice
Year/Season:	Kharif, 2024
Farming situation:	Irrigated
Problem diagnosis:	High seed rate, Poor germination due to no proper depth and coverage of seed into soil
Thematic area:	Precision Agriculture (Farm Mechanization)
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcasting method
T2 –Recommended Practice-	Tractor operated Seed cum fertilizer drill, Row to Row spacing- 25 cm & Adjustable, No. of Rows Available 9.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering
Title of on-farm trial:	Assessment of Drip Irrigation on yield of Tomato
Year/Season:	Rabi, 2024
Farming situation:	Irrigated
Problem diagnosis:	Excess soil moisture due to uncontrolled irrigation method causes pests and disease problems.
Thematic area:	Precision Agriculture
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Flood irrigation
T2 –Recommended Practice-	Drip irrigation and fertigation, spacing - (45 x 30 cm)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	

Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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 Dept. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Lathyrus	Resource Conservation technology	Utera technique Lathyrus var. Prateek / Mahateora Seed treatment with Rhizobium, PSB and Trichoderma @ 5g/kg seed, Foliar application of NPK (19:19:19) at 30 DAS	Seed, Biofertilizers (Rhizobium, PSB) , Trichoderma	Rabi 2024	4.80	12	Plant height, Root Nodule/plant, No. of pods /plant, Yield (q/ha), B:C ratio
2	Mustard	Varietal Demonstration	Improved Variety Mustard var. CG Sarson-1, Seed treatment with Azospirillum + PSB, Line Sowing, IPM	Seed, Biofertilizers, Trichoderma	Rabi 2024	4.00	10	Plant height (cm/plant), No. of Siliqua/ plant, No. of seeds/siliqua, Yield (q/ha)
3	Rice	Nutrient management	Improved Variety i.e. Chhattisgarh Deobhog + RDF (100:60:40) NPK Kg/ha	Seeds	Kharif 2024	4.00	10	No. of panicles/m ² , Plant Height (cm), Yield (q/ha), B:C ratio
4	Wheat	Nutrient management	Improved Variety i.e. Kanishka + RDF (100:60:40) NPK Kg/ha	Seeds	Rabi,2024	2.00	10	No of effective tillers/plant, Plant Height (cm), Grain Yield (q/ha), B:C ratio
5	Chickpea	Pest management	IPM	Pheromone traps, <i>Trichogramma chilonis</i> , neem oil	Rabi,2024	2.80	7	No. of affected pod per square meter, yield q/ha, B:C ratio
6	Rice	IPM	Seed treatment, Plant spacing, alternate wetting and drying, Pheromone traps, application of Trico cards	Pheromone traps, Trico cards	Kharif,2024	4.00	10	For stem borer- No. of moths/plant, For BPH- No.of adults /plant.

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	02	Nov, Feb	100
2	Farmers Training	05	July, Aug, Oct, Dec, Jan	
3	Media coverage	03		
4	Training for extension functionaries	02	July, Nov	

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Combine Harvester	Paddy	Kharif 2024	05	4		Field capacity, Cost of operation	Demons. of Combine Harvester	Manual Harvesting
Disc Harrow	Paddy	Kharif 2024	10	4		Field capacity, Cost of operation	Demons. of Disc Harrow	Directly burn/ploughing

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
0	0	0	0	0	0	0	0

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
0	0	0	0	0	0	0	0

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Blackgram	ICM	•Improved variety, Seed treatment with Bio-fertilizer i.e. Rhizobium + PSB, Use of Insecticides and Fungicides for disease and insect control	Seed, Biofertilizers	Kharif 2022	20	50	Yield q/ha
2	Groundnut	ICM	•Improved variety, Line Sowing, Seed treatment with Bio-fertilizer i.e. Rhizobium + PSB, Use of Insecticides and Fungicides for disease and insect control	Seed, Biofertilizers	Kharif 2022	10	25	Yield q/ha
3	Chickpea	ICM	High Yielding Variety (RVG 202), Line sowing through seed drill, Seed treatment with Rhizobium + PSB	Seed, Biofertilizers	Rabi 2022	20	50	yield q/ha
4	Mustard	ICM	High Yielding Variety (CG Sarson-1), Seed treatment with Azospirillum+ PSB	Seed, Biofertilizers	Rabi 2022	20	50	yield q/ha

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	Oct-Nov,	100
2	Farmers Training	5	March-April	100
3	Media coverage	3	-	-
4	Training for extension functionaries	1	-	20

A) ON Campus

[illegible]

[illegible]

[illegible]

B) OFF Campus

[illegible]

1. On Campus

[illegible]

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Dec	F &FW	Integrated Crop Management (Pulse)	1							30
Nov	F &FW	Integrated Crop Management (Oilseed)	1							30
		Integrated Farming System	1							30
July	F &FW	Resource Conservation Technology	1							30
April	F &FW	Seed production (Cereal Crop)	1							30
June	F &FW	Weed Management (Kharif Crop)	1							30
May	F &FW	Resource Conservation Technology	1							30
April, Nov	F &FW	Organic/Natural farming	1							60
Horticulture										
Livestock production										
Home Science										
Plant Protection										
Jan	F &FW	Management of store grain pest on cereals	1							30
Jan	F &FW	Management of store grain pest on pulses	1							30
June-July	F &FW	Introduction with new chemicals for management of rice insect pest	1							30
Feb	F &FW	Management of vegetable's insect pest	1							30
March	F &FW	Precautions and safety measures during pesticides application	1							30
April	F &FW	Integrated pest management in orchid	1							30
Oct	F &FW	Preparation of botanicals insecticides	1							30
Nov.	F &FW	Lac Production	1							30
Dec.	F &FW	Bee keeping	1							30

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
April May	F &FW	Soil sampling, testing and SHC	1							60
Jun	F &FW	Nutrient management in Kharif Crops (Rice, Blackgram, Groundnut)	1							30
Aug Sept	F &FW	Use of water soluble fertilizer	1							60
Oct Nov	F &FW	Nutrient management in Rabi Crops (Wheat, Chickpea , Mustard)	1							60
Dec	F &FW	Importance of Biofertilizers	1							30
Agril. Engineering	F & FW	Use & benefits of summer ploughing	1							30
June, Dec	F & FW	Application and Use of Disc Harrow in crop residue management	1							30
June	F & FW	Use & Benefits of seed cum fertilizer drill	1							30
April	F & FW	Use and Benefits of Micro irrigation system	1							30
May	F & FW	Importance and use of plastics in agriculture	1							30
March	F & FW	Different techniques of irrigation and its management,	1							30
April	F & FW	Importance of drip irrigation in vegetable and fruits	1							30
March	F & FW	Use of traditional technique of irrigation method for Orchards	1							30

Vocational Training Programme for Rural Youth:

[illegible]

[illegible]

Training Programme for Extension Functionaries:

[illegible]

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	Swarna	200
		Vikram TCR	225
		Dubraj Selection 1	25
OILSEEDS	Mustard	CG Sarso-1	48
	Linseed	RLC 153	15
PULSES	Chickpea	RVG 202	50
VEGETABLES	Palak	All Green	2.0
Spices	Coriander	CG Chandrahasini Dhaniya 2	2.5
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava	L-49	1000
	Guava	Allahabad Safeda	1000
	Karonda	Pink	1000
	Papaya	Red Lady	3000
SPICES	-	-	-
VEGETABLES	Chilli	Kashi Anmol	3000
	Brinjal	Kashi Sandesh	3000
	Tomato	Kashi Aman	3000
	Drum Stick	PKM-1	500
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	-	-	-
Others (specify)	-	-	-

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			1000
2	NADEP			
3	Azolla			100
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published**KVK News Letter**

Date of start	Periodicity	Number of copies to be published
January to March 2024	Q1	
April to June 2024	Q2	
July to September 2024	Q3	
October to December 2024	Q4	

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	1		
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Interface, Line Dept
2	Rural Youth	Interface
3	In-service personnel	Line Dept
4	methodology for identifying OFTs/FLDs	Interface, Line Dept
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name: Khatti, Aasra, Bodrabandha, Dhawalpur

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Hardi	Gariaband	10
2	Baghmar	Gariaband	22
3	Kokdi	Gariaband	2
4	Marouda	Gariaband	4
5	Bhendri	Gariaband	35
6	Ghatod	Gariaband	32
7	Bodrabanda	Chhuura	30
8	Mohabhatta	Gariaband	25
9	Baruka, Kopra, Panduka, Barula, Potiya, Fulkarra, Maroda, Paragaon, Bindranavagarh	Gariyaband, Chhura, Fingeshwar	12,30,25,8, 15,12,5,4,25
10	Maalgaon, Sadouli, Tavabahara	Gariyaband	5, 6,5

1. No. of farm families selected per village : 25
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	-	-	-
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	-	-	-	-
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
IFFDC	Technical Support,
NIWCYD	Training, Demo, Tech. Support

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes

Name of Programme	Nature of linkage
-	-

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Action plan for Flagship programmes implemented at KVK
(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes - Natural farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Round the year	Kisan Ghosti, Method Demonstration, Group meetings, Exhibition, Literature preparation and distribution	1250
January	3 On campus trainings	120
February	3 On campus trainings	120
March	2 On campus trainings	80
July	Demonstration of natural farming practices in Paddy	6
December	Demonstration of natural farming practices in Chickpea	6

Planning for Crop CafeteriaTotal Area of Crop cafeteria: **2150 Sq m**

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	Indira Barani Dhan-1, Purnima, CG. Barani Dhan-2, Indira Aerobic-1 Bastar Dhan-1	5 (Short duration variety, 105 to 120 days)	125
		Indira Sugandhit Dhan-1, Vikram TCR, IGKV R-1	3 (Medium duration variety , 120 to 130 days)	75
		CG. Zinc Rice, Dubraj Sel.-1, Swarna	3 (Long duration variety , above 130 days)	75
Wheat	Rabi	CG-04, CG- 03, CG-1036, CG 1023, CG-1029	-	125
Maize	Rabi	C.P. B 472	Baby Corn, Sweet Corn	50
Chickpea	Rabi	CG Chana-2, RVG- 202, RVG- 203, RVG- 204	-	100
Linseed	Rabi	RLC 153, RLC 92	-	50
Mustard	Rabi	CG Sarso-1, Giriraj	-	50
Vegetables	Rabi	Kashi Aman, Kashi Sandesh, Kashi Anmol	Tomato, Brinjal, Chilli	100
Vegetables	Rabi	Anika, All Green	Broccoli, Palak	200

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Dairy Unit	Sahiwal- Cow-6, Calf- Male 4, Female - 2	4000	
Poultry Unit	Kadakhnath chicks – 25	400	
Mushroom unit	Oyster mushroom (Ghar-Ghar mushroom invented by KVK Gariaband)	20	
Vermi compost unit	Vermi khad and verms production	200	
Fruit Orchard	Mango Guava Coconut	900	
Shade Net	Veg. seedling and planting material prod.	1500	

[illegible]

1.3 Total land with KVK (in ha):20

S. No.	Item	Area (ha)
1	Under Buildings	0.50
2	Under Demonstration Units	1.00
3	Under Crops	13.00
4	Orchard/Agro-forestry	2.50
5	Others (specify)	3.00
Total		20

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	24.02.2009	750 sqm	4216872			
2	Farmers Hostel	ICAR	28.04.2009	305 sqm	2725730			
3	Staff Quarters (6)	ICAR	12.12.2012	G-89.14 H-129.14 I-72.85	3927000			
4	Demonstration Units (2) Dairy							
5	Fencing	ICAR						
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown							
9	Poly house	DMF	2017	1000	1500000.00			Complete

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2013	160500.00	-	Condemned
Motor Cycle	2007	40000.00	-	Working
Bolero(Jeep)	2018	619912.00	-	Working
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
-	-	-	-

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	05.06.2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	-
2	AES – 2	-
3	AES – 3	-

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	-
2	AES - 2	-
3	AES – 3	-
4	AES – 4	-
5	AES – 5	-
6	AES – 6	-

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	4,46,674
Forest	79.439
Waste Land	
Other than cultivated area	
Cultivable waste and alkaline land	
Pastures	
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	
Area Sown	3,14,395
Kharif	257.231
Rabi	34.720
Zaid	
Cropping Intensity	123

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	229520 (K)
2	Well	280 (K), 480 (R)
3	Tube well	160 (R)
4	Ponds	7740 (K), 22360 (R)
5	Others	1560 (K), 4680 (R)

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Bhata Soil		29635 (11.3%)
2	Matasi Soil		69744 (26.6%)
3	Dorsa Soil		88737 (33.9%)
4	Kanhar Soil		72884 (28.2%)

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
1	Paddy	1151666	6730937.080	4438
2	Maize	6	157.080	2618
3	Finger millet	4	16.400	410
4	Pigeon pea	15	136.200	908
5	Blackgram	10	70.300	703

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	-	26	10
Feb. 2023	-	32	11
Mar. 2023	-	37	16
Apr. 2023	-	40	19
May. 2023	-	44	22
Jun. 2023	-	44	25
July. 2023	-	38	26
Aug. 2023	-	35	26
Sept. 2023	-	36	24
Oct. 2023	-	36	20
Nov. 2023	-	33	16
Dec. 2023	-	30	11

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	Sahiwal -9	 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>		 MT wool	 kg
Goats		 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>		---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	q/ month	 q/ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Janjgir	Navargh	Various	Paddy, Mushroom	Insect Pest and diseases	-
2	Akaltara	Akaltara	Various	Paddy, Vegetable	Insect Pest and diseases	-
3	Baloda	Baloda	Various	Paddy, Mushroom	Insect Pest and diseases	-
4	Dabhra	Dabhra	Various	Paddy, Vegetable	Insect Pest and diseases	

Priority / Thrust areas

S. No.	Particulars
1.	Enhancement of productivity of rice in Kharif
2.	Efficient and maximum utilization of rice bund with Pigeon pea (Some of the area under other crop)
3.	Enhancement of area under Oil seed, Pulses & Horticulture crops
4.	Efficient utilization of soil moisture for rabi crops
5.	Reduction in cost of production (Reduction of pesticide loads, labour casting etc.)
6.	Adoption of Integrated farming system
7.	Availability of Green Fodder round the year for milk production
8.	Promoting small scale entrepreneurship and enterprises like mushroom, vermicompost, Trichoderma, processed food product

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants

Seed Production (Qtl.)	Planting material (Nos.)

B. Abstract of interventions to be undertaken

[illegible]

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

[illegible]

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	-	
Title of on farm trial	-	
Problem diagnosed	-	
Farmers' Practices	-	
Details of technologies selected for assessment	T ₁	-
	T ₂	-
	T ₃	Rows can be added if necessary
Source of technology	-	
Plot size	-	
No. of farmers	-	
Total cost	-	
Critical input	-	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	-	

OFT -2

1	Enterprise	-
2	Title of on-farm trial	-
3	Problem diagnosed	-
4	Farming situation	-
5	Production system and thematic area	-
6	Farmers' practices	-
7	Details of technologies selected for assessment/refinement Treatments	T ₁ - T ₂ - (Rows can be added if necessary)
8	Source of technology	-
9	No. of animals	-
10	No. of farmers	-
11	Critical input	-
12	Cost of input	-
13	Total cost	-
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	-

Detailed Information about OFT:

OFT-1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of high yielding scented rice variety
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Unavailability of high yielding scented variety, Use of desi Scented variety which are tall, low yield and highly susceptible for pests
Thematic area:	Crop Production
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Desi scented rice variety
T2 –Recommended Practice-	High yielding scented rice variety C.G. Deobhog
T3- Recommended Practice-	Trombey Dubraj Mutant -1
Date of sowing:	July-2024
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	Varietal Evaluation

Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of high yielding rice variety MTU-1318
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Rice variety Swarna is highly susceptible for pests
Thematic area:	Crop Production
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Rice variety-Swarna
T2 –Recommended Practice-	High yielding rice variety MTU-1318
T3- Recommended Practice-	-
Date of sowing:	July-2024
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	Varietal Evaluation
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-03

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of high yielding variety of wheat under late sown irrigated conditions (CG gehu-4)
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low productivity
Thematic area:	Crop Production
No of trials:	4
No. of farmers involved	4

Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Old variety
T2 –Recommended Practice-	High yielding variety of wheat (CG gehu-4)
T3- Recommended Practice-	-
Date of sowing:	Dec.-2024
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	Varietal Evaluation
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-04

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of performance of linseed as relay crop under Rice based cropping system (RLC 143)
Year/Season:	Rabi 2024-25
Farming situation:	Rainfed
Problem diagnosis:	Low productivity
Thematic area:	Crop Production
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Rice -Fallow
T2 –Recommended Practice-	Relay cropping of Linseed with proper agronomic practices: Var (RLC 143), Seed rate 30 kg/ha, Seed treatment Thiram + Rhizobium + PSB + Trichoderma), RDF (20:50:20 kg NPK/ha), optimum DOS 15 days after flowering, Staggered sowing, 2% DAP spray at maximum branching & pod initiation stage, Rice stubble ht. 30 cm
T3- Recommended Practice-	-
Date of sowing:	Oct.-2024
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	Relay cropping
Name of Crop/Enterprises:	Linseed
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-05

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of effect of molybdenum and boron for curd quality and yield in cauliflower for rabi season
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Low curd keeping quality flavour and yield due to deficiency of micro nutrients
Thematic area:	INM
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of imbalance fertilizer and no use of micro nutrient
T2 –Recommended Practice-	RDF (NPK 120:60:60) + 2 kg sodium molybdate and 20 kg boron/ha as basal application
T3- Recommended Practice-	-
Date of sowing:	Oct.-2024
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	INM
Name of Crop/Enterprises:	Cauliflower
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-06

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of pre emergence herbicide in rabi onion
Year/Season:	Rabi 2024-25
Farming situation:	Irrigated
Problem diagnosis:	Highly weed infestation in early growth stages
Thematic area:	IWM
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	

T1 – Farmers Practice-	Hand weeding
T2 –Recommended Practice-	application of oxiflurofen 23.5% @400 g/ha PPI with one hand weeding at 30-35DA
T3- Recommended Practice-	-
Date of sowing:	Nov.-2024
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	IWM
Name of Crop/Enterprises:	onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-07

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection (Entomology)
Title of on-farm trial:	Assessment of Integrated pest management against shoot and fruit borer of Brinjal
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	Low production due to heavy infestation of shoot and fruit borer
Thematic area:	Plant Protection
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Only Chemical control
T2 –Recommended Practice-	Light trap,pheromone trap,Botanical Extract(Neem) Spinosad 45 % SC @ 60 ml /acre or chlorantraneiliprole 18.5 SC @25 ml /acre
T3- Recommended Practice-	-
Date of sowing:	July.-2024
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	IPM
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-08

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection (Entomology)
Title of on-farm trial:	Assessment of miticide against Rice panicle mite
Year/Season:	Kharif 2024
Farming situation:	Irrigated
Problem diagnosis:	20-30 % panicle damage
Thematic area:	Plant Protection
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Only insecticide and miticide
T2 –Recommended Practice-	Diafenthuron 50% WP@ 1.5 g/liter of water + propiconazole 25 % EC @ 1 ml /L
T3- Recommended Practice-	-
Date of sowing:	July.-2024
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	Application of chemical pesticide(miticide)
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-09

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection (Entomology)
Title of on-farm trial:	Assessment of Integrated pest management against stem borer of Wheat
Year/Season:	Rabi 2024-24
Farming situation:	Irrigated
Problem diagnosis:	Stem borer is the main insect causing damage
Thematic area:	Plant Protection
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	

T1 – Farmers Practice-	Only Chemical control
T2 –Recommended Practice-	Light trap,pheromone trap,Botanical Extract,Biocontrol (Trichogramma,chilonus,) Spinosad 45 SC @160 ml/ha. And Chlorantraniliprole 18.5 SC @60ml/ha.
T3- Recommended Practice-	-
Date of sowing:	Dec.-2024
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	IPM
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-10

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection (Entomology)
Title of on-farm trial:	Assessment of verticillium against mustard aphid
Year/Season:	Rabi 2024-24
Farming situation:	Irrigated
Problem diagnosis:	Aphid causes heavy damage
Thematic area:	Plant Protection
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Only Chemical control
T2 –Recommended Practice-	Use of <i>Verticillium lecanii</i> (entomophagus fungi) @ 10 ml/L of water
T3- Recommended Practice-	-
Date of sowing:	Dec.-2024
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	Plant Protection
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-11

Name of Discipline (like Agronomy/Horticulture/	Plant Protection

Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Easy, Reliable and Safe Substrate Sterilization Technique for Oyster Mushroom
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	The contamination of substrate with competitor molds of Oyster mushroom like cobweb (<i>Cladobotryum spp.</i>) and green mold (<i>Trichoderma spp.</i>) which leads poor quality with low production of Oyster mushroom in farmers grown mushroom bags.
Thematic area:	Disease management in Mushroom.
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Only Chemical control with higher dose.
T2 –Recommended Practice-	Thiophanate-methyl 60 ppm + formalin 500 ppm.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-Directorate of Mushroom Research , Solan
Characteristics of technology:	Sterilization Technique for Oyster Mushroom
Name of Crop/Enterprises:	Oyster Mushroom
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-12

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of bio-control agents against Sclerotinia stem rot disease of Mustard.
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Due to soil borne nature of disease and its sclerotia can survive up to 10 years in soil. The soil of this district is mostly loamy, high water holding capacity, compact and very seeks in beneficiary soil microbes which favor the development of this disease.
Thematic area:	Disease management in Mushroom.
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Only Chemical control
T2 –Recommended Practice-	Seed treatment of <i>T. harzianum</i> @10g/kg seed followed by foliar spray of <i>Pseudomonas fluorescence</i> (oil based) @10ml/L at flower initiation stage.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-Directorate of Rapeseed-Mustard Research, Bharatpur
Characteristics of technology:	Sterilization Technique for Oyster Mushroom
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-13

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Azoxystrobin fungicide on management of Rice Sheath Blight Disease.
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Heavy loss due to infection of sheath blight disease because of low land and canal irrigation and lack of knowledge in application of new generation fungicide at appropriate dose in right timing.
Thematic area:	Plant Disease Management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Only Chemical control and use of ineffective fungicides.
T2 –Recommended Practice-	Azoxystrobin 23% SC @ 0.16 kg ai/ha at after 7 days of panicle differentiation stage.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Acharya N. G. Ranga Agricultural University, Andhra Pradesh
Characteristics of technology:	Use of Azoxystrobin fungicide for rice sheath blight disease
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-14

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of fungicide on management of blast disease of rice.
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Heavy loss up to 30% due to infection of leaf and neck blast disease , low land highly irrigated, excessive use of nitrogen fertilizer and lack of knowledge in application of new generation fungicide at appropriate dose .
Thematic area:	Plant Disease Management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Only Chemical control
T2 –Recommended Practice-	Azoxystrobin 18.2 % + Difenaconazole 11.4% SC at 30-45 DAS and at booting stage
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	TNAU, Coimbatore
Characteristics of technology:	Use of Azoxystrobin fungicide for blast disease of paddy
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-15

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Farm Mechanization
Title of on-farm trial:	Assessment of Straw Reaper for collection of paddy straw.
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Paddy stubble burning is major problem to clear the field for sowing Rabi crop
Thematic area:	Farm Mechanization
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Manual method
T2 –Recommended Practice-	Straw collection with the help of Straw reaper
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CCSHAU, Haryana
Characteristics of technology:	Straw collection with the help of Straw reaper
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-16

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Farm Mechanization
Title of on-farm trial:	Assessment of Multi-crop planter for sowing of pigeon pea.
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Traditional method of sowing requires more seed rate
Thematic area:	Farm Mechanization
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional method of sowing
T2 –Recommended Practice-	Sowing with the help of planter
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CCSHAU, Haryana
Characteristics of technology:	Sowing with the help of planter
Name of Crop/Enterprises:	Pigeon pea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-17

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Farm Mechanization

Title of on-farm trial:	Assessment of Stripping of groundnut by groundnut stripper
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Traditional method of stripping is labour intensive and time consuming operation and this causes blisters on hands
Thematic area:	Farm Mechanization
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Hand stripping
T2 –Recommended Practice-	Stripping by groundnut stripper
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	Stripping by groundnut stripper
Name of Crop/Enterprises:	Groundnut
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details
-	-

Information about Home Science OFT:

Title of on-farm trial:	-
Year/Season:	-
Problem diagnosis:	-
Thematic area: (Focus area in DFI and nutri smart initiatives)	-
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 Dept. Personnel	-
Feedback	-

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Colocasia	Crop production	Demonstration on High yielding variety of colocasia, (Variety- Indira Arvi-1)	Seed	Rabi 2024-25	0.100 ha	5	Size and wt of corms , yield and B:C ratio
2	Turmeric	Crop production	Demonstration on High yielding variety of Turmeric (Variety- C.G. haldi-3)	Seed	Kharif-2024	0.100 ha	5	Size and wt of rhizome , yield and B:C ratio
3	Black gram	Crop production	Demonstration on High yielding variety of black gram (Variety- Indira urd-1)	Seed	Summer 2025	5 ha	12	No. of pod/plant, no. of seed/pod, Test wt., yield, B:C ratio
4	Paddy	Crop management	Demonstration of crop management practices in line sown direct seeded Rice	Herbicide, POL	Kharif-2024	5 ha	12	No. of effective tillers/m ² , yield, Net Return Rs./ha, B:C ratio, weed density
5	Paddy	Plant Protection	Demonstration of Integrated pest management against Brown plant hopper of Paddy	Fungicide, Insecticide	Kharif-2024	5 ha	12	No. of BPH per plant , Yield (q/ha), B:C Ratio
6	Paddy	Plant Protection	Demonstration of Integrated pest management against stem borer of Paddy	Fungicide, Insecticide	Rabi-2024	5 ha	12	No. of Dead Heart per meter square No of White Ear head per meter square
7	Blackgram	Farm Mechanization	Demonstration of Multi-crop planter for sowing of Blackgram	POL	Rabi-2024	5 ha	12	Yield, B: C Ratio, cost of operation, Seed rate
8	Lathyrus	Farm Mechanization	Demonstration of Happy Seeder to Utilize Soil Moisture for Cultivation of Lathyrus	POL	Rabi-2024	5 ha	12	Yield, B:C Ratio, Energy Saving

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	-	-
2	Farmers Training	2	-	-
3	Media coverage	2	-	-
4	Training for extension functionaries	2	-	-

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

-	--	--	--	-	-	-	-

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Mustard		Seed treatment ,Line sowing					
2								

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	1	-	-
2	Farmers Training	3	-	-
3	Media coverage	1	-	-
4	Training for extension functionaries	1	-	-

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	1							
Resource Conservation Technologies									
Integrated Farming	1	1							
Water management									
Seed production	1	1							
Integrated Crop Management	1	1							
Total									
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	1	1							
Protective cultivation (Green Houses, Shade Net etc.)	1	1							
Total									
b) Fruits									
Management of young	1	1							

[illegible]

[illegible]

[illegible]

[illegible]

B) OFF Campus

[illegible]

management									
Soil and Water Conservation									
Integrated Nutrient Management	1	1							
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing	1	1							
IV Livestock Production and Management									
Dairy Management	1	1							
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies									
Rural Crafts									
Women and child care									
Total									
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management	1	1							
Integrated Disease Management	1	1							
Bio-control of pests and diseases	1	1							

Production of bio control agents and bio pesticides									
VIII Fisheries									
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development	1	1							
Group dynamics									
Formation and Management of SHGs									
Mobilization of social capital									
Entrepreneurial development of farmers/youths									
WTO and IPR issues									
XI Agro-forestry									
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs	1	1							
Sheep and goat rearing									
TOTAL									
(C) Extension Personnel									
TOTAL									

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
		Weed Management	1							
		Different type of sowing method in Paddy	1							
		Crop management in Paddy	1							
		Water Harvesting Management system	1							
		Integrated nutrient Management in paddy	1							
Horticulture										
		Nursery management in vegetable crop	1							

		Improved cultivation technique of Rabi vegetable crops	1							
Livestock production										
Home Science										
Plant Protection		IPM on stem borer of Paddy	1							
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Agril. Engineering		Farm Machinery scope, importance and its utilization	1							
Agril. Engineering		Micro irrigation system and its installation	1							
Agril. Engineering		Use of mulcher to utilize soil moisture	1							

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
		Improved Utera Techniques	1							
		Integrated nutrient Management in paddy	1							
		Seed production of chickpea	1							
		Seed production of Blackgram	1							
Horticulture										
		Off season vegetable cultivation	1							
		Protected cultivation	1							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		technique								
		Mushroom production training	1							
		Nursery management in vegetable crop	1							
Livestock production										
Home Science										
Plant Protection		Demonstration of bio-control agents	1							
		IPM on vegetable pest under backyard farming	1							
		Disease management of paddy pest disease	1							
		Production of jivamrit .nimastra ,bijamrit under natural farming	1							
		Importance of Bioagent under IPM on paddy pest	1							
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Agril. Engineering		Importance of farm machinery and its maintenance	1							
Agril. Engineering		Maintenance of drip irrigation under protected cultivation	1							
Agril. Engineering		Calibration of seed drill, adjustment and maintenance of agril. machineries	1							
Agril. Engineering		Crop residue management after harvesting paddy crop	1							
Agril.		Energy and water	1							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Engineering		conservation								
Agril. Engineering		Custom hiring centers and its scope	1							

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Lectures delivered as resource persons	15									
Newspaper coverage	15									
Radio talks	6									
TV talks	0									
Popular articles	6									
Extension Literature	2									
Advisory Services	12									
Scientific visit to farmers field	20									
Farmers visit to KVK	800									
Diagnostic visits	25									
Exposure visits	2									
Ex-trainees Sammelan	3									
Soil health Camp	3									
Animal Health Camp	0									
Agri mobile clinic	2									
Soil test campaigns	0									
Farm Science Club Conveners meet	6									
Self Help Group Conveners meetings	6									
Mahila Mandals Conveners meetings	2									
Celebration of important days (specify)	10									
Others (pl. specify)										
Total										

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	Devbhog, CG Dhaan 1919,Rajeshwari,MTU-1318	70
OILSEEDS	Mustard	CG-Sarso	150-200
PULSES	Chickpea	RVG	500
	Blackgram	Indira Urd	250
	Pigeonpea		200
	Lathyrus		50
VEGETABLES	Brinjal		
	Cabbage		
	Coriander		
	Cauliflower		
	Tomato		
	Ladyfinger		
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango		
	Guava		
SPICES			

VEGETABLES	brinjal		
	Cabbage		
	Cauliflower		
	Tomato		
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS		-	-	-
1	Trichoderma	-	-	-
2	Rhizobium	-	-	-
3		-	-	-
BIOFERTILIZERS		-	-	-
1	Vermicompost	-	-	-
2	NADEP	-	-	-
3		-	-	-
BIO PESTICIDES		-	-	-
1	Dasparni arkl	Different types of leaves		
2	Pesticides	-	-	-
3		-	-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Milching	Sahiwal	9	
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	-	-	-

Success stories/Case studies identified for development as a case: 04 (no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	8
2	Rural Youth	2
3	In-service personnel	12
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	-	-	-

1. No. of farm families selected per village :

2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	-	-	-

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	-	-	-	-
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
-	-

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
Training	Dissemination of technology

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

-	-

Action plan for Flagship programmes implemented at KVK
 (NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
-	Seed Hub	-
-	Agri Drone	-
-	SC SP NICRA	-

Planning for Crop Cafeteria
 Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Mushroom Unit			
Fisheries			
Dairy Unit			
Sericulture			
Mother orchard			
Vermicompost			

ANNUAL ACTION PLAN 2024

KVK Jashpur

Year of sanction: 2007

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Shri Rakesh Kumar Bhagat	-	6263636208	kvkjashpur@yahoo.in

1.2 Staff Position on (31th Dec.2023)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	-	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Shri R.K. Bhagat	SMS	Soil Science	56100-177500 69000	18.09.2014	2020	62636 36208	bhagatrakesh.a gb@gmail.com	
3	Subject Matter Specialist	Shri P.K. Kujur	SMS and I/c SSH	Vegetable science	56100-177500 56100	08.10.2018	2018	95848 93582	pradeep.kujur9 4@gmail.com	
4	Subject Matter Specialist	Er. Anita Lakra	SMS	APFE	56100-177500 56100	31.12.2018	2020	62601 60393	anilakra92@gm ail.com	
5	Subject Matter Specialist	Shri M.K. Patel	SMS	Agricultural Extension	56100-177500 56100	03.10.2023	2023	90098 39100		
6	Subject Matter Specialist	Shri S.K. Bhuarya	SMS	Agrometeorology	56100-177500 56100	05.09.2019	2019	78692 09132	shivbhuaarya@ gmail.com	
7	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
8	Programme Assistant	-	-	-	-	-	-	-	-	-
9	Computer Programmer / Programme Assistant	Shri Manish Verma	PA	Computer Science	35400-112400 38700	24.10.2019	2019	62642 53934	manish1509197 9@gmail.com	-
10	Farm Manager	-	-	-	-	-	-	-	-	-
11	Assistant	-	-	-	-	-	-	-	-	-
12	Jr. Stenographer / Comp. Operator	Shri Lepa Ram	AG-II	-	Contractual	-	2022	94242 52902	rlepa554@gmai l.com	
13	Driver	Shri Bachchan Ram	Driver	-	Contractual	-	2022	79746 23826	bacchansidar@ gmail.com	
14	Driver	Shri Jeevan Painkra	Driver	-	Contractual	-	2022	92945 19136	Jeevanpainkra1 922@gmail.co m	
15	Supporting staff	Shri Manoj Narange	Peon	-	Contractual	-	2022	83050 54093	manojnarange1 2@gmail.com	
16	Supporting staff	Shri Abhay Lal	Watch man	-	Contractual	-	2022	93407 70308	-	

1.3 Total land with KVK (in ha): 15.217

S. No.	Item	Area (ha)
1	Under Buildings	0.047
2	Under Demonstration Units	2.65
3	Under Crops	6.00
4	Orchard/Agro-forestry	5.20
5	Others (specify)	1.32
Total		15.217

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq. m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq. m)	Status of construction
1	Administrative Building	ICAR	2014	469	5400000	-	-	-
2	Farmers Hostel	-	-	-	-	-	-	-
3	Staff Quarters (6)	-	-	-	-	-	-	-
4	Demonstration Units (2)	Other	2021-22	-	-	-	-	-
5	Fencing		2016					
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor Power Tiller (John Deer)	2019	584403	2461 hrs	Running
Motor Cycle (Hero Honda Glamour)	2010	44015	12434	Running
Bolero(Jeep) BS VI	2021	784265	95632	Damage Not Working

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Android Projector	2023	21500.00	Running
CCTV camera	2024	49000.00	Running
Smart TV	2024	48500.00	Running

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	20 June 2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	High altitude plain area around the 700 msl (<i>Path</i> area of Manora, Jashpur, Bagicha, Sanna)
2	AES – 2	Low altitude area around <700 msl (Kunkuri, Bagicha, Kansabel, Duldula)
3	AES – 3	Low fertile plain area (Pathalgaon, Kansabel, Bagicha)
4	AES – 4	Sloppy undulating low fertile area (Farsabahar, Kansabel, Duldula)

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Northern Hills (Plain area, yellow to medium soil)
2	AES - 2	Northern Hills (yellow to medium soil)
3	AES – 3	Northern Hills (red to light red soil, yellow to medium black soil)
4	AES – 4	Northern Hills (small gravel, coarse particles)

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
Horticultural crop	Far distance and weak communication	Horticultural crop	Monitoring due to long distance

AES-2 (name)

Strength	Weakness	Opportunities	Threats
Oilseed crop, vegetables	Low organic carbon, poor water holding capacity	Oilseed crop, vegetables	few Mechanization available

AES-3 (name)

Strength	Weakness	Opportunities	Threats
Oilseed crop, vegetables, pulses	low water irrigation facility	Oilseed crop, vegetables, pulses	Mechanization, water and nutrient

AES-4 (name)

Strength	Weakness	Opportunities	Threats
Few oilseed crop	erosion	Land leveling, soil and water conservation	High cost

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	645741.00
Forest	229834.00
Waste Land	44222.00
Other than cultivated area	78265.00
Cultivable waste and alkaline land	8717.00
Pastures	43100.00
Bushes	-
Current Fallow	26976.00
Other Fallow	17246.00
Agricultural Land	257782.00
Area Sown	313981.00
Kharif	265632.00
Rabi	48349.00
Zaid	-
Cropping Intensity	129 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	21194
2	Well	10858
3	Tube well	1500
4	Ponds	3000
5	Others	9500

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Inceptisols (Matasi): Sandy loam	Sandy Loam, medium shallow deep,yellow colour, PH- 5.4-6.2	107547
2	Alfisols (Dorsa): Clay loam	Clay loam, medium to moderate deep, red and brownish grey colour, PH- 5.8-6.5	59667
3	Entisols (Bhata): lateritic	Gravelly course loamy to Sandy , very shallow, reddish to dark reddish colour, PH- 5.0-5.4	58438
4	Vertisols (Kanhari): Clayey	Clayey heaver deep, dark gray brown to black colour, PH- 5.8- 6.9	53250

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	170738	3670867	21.50
2	Maize	10027	200540	20.00
3	Groundnut	12500	206250	16.50
4	Niger	24500	98000	4.00
5	Black gram	24000	123600	5.15

Weather data (Jan, 2023- Dec. 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 23	0.0	27.0	6.5
Feb, 23	0.0	30.1	7.6
Mar, 23	49.6	32.1	14.0
Apr, 23	42.0	35.3	17.2

May, 23	21.9	37.8	19.5
Jun, 23	149.6	37.4	23.3
July, 2023	239.5	30.5	23.1
Aug., 2023	205.6	29.3	21.9
Sept., 2023	376.6	29.6	21.7
Oct. 2023	29.5	30.7	16.9
Nov. 2023	0.0	29.1	12.3
Dec. 2023	36.0	29.2	21.3

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous		0 MT.	0 kg
Buffalo		0 MT.	0 kg
Sheep			
Crossbred/ Indigenous		0 MT wool	0 kg
Goats		0 MT	0 kg
Pigs Crossbred/ Indigenous		0	0
Rabbits			
Poultry			
Hens		0 Lakh eggs	0 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	0 (ha)	0 Q/ month	0 Q/ ha.

Details of Operational area / Villages (2024)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Kansabel	Kansabel	Bataikela	Paddy & Mini rice mill	problems occur during processing	Agro-processing
2	Pathalgaon	Pathalgaon	Bhaisamuda	Paddy & Mini rice mill	problems occur during processing	Agro-processing
3	Pathalgaon	Pathalgaon	Ludeg	Paddy &Mini rice mill	problems occur during processing	Agro-processing
4	Pathalgaon	Pathalgaon	Ludeg	Tomato & Processing of Tomato	No processing of Tomato	Agro-processing
5	Bagicha	Bagicha	Bagicha	Paddy & Drum seeder	Lack of Knowledge about drum seeder	Farm-Mechanization
6	Kunkuri	Kunkuri	Dhodhibahar	Paddy & Drum seeder	Lack of Knowledge about drum seeder	Farm-Mechanization
7	Bagicha	Bagicha	Bagicha	Paddy & Ambika paddy weeder	Time consuming during manually weeding	Farm-Mechanization
8	Kunkuri	Kunkuri	Dhodhibahar	Paddy & Ambika paddy weeder	Time consuming during manually weeding	Farm-Mechanization

Priority / Thrust areas

S. No.	Particulars
1.	Crop Diversification [Replacement of upland rice, replacement of local cultivars, change in cropping pattern]
2.	Crop Intensification [Introduction & popularization of new HYV's /Hybrids, seed quality, beneficial cropping pattern, judicious land use]

3	Seed Production & Seed Quality
4	INM [Soil fertility & Fertilizers Management, Soil Amelioration]
5	Soil & Water conservation
6	Farm Mechanization & Post-harvest-technology
7	Plant Protection [IPM, IDM, IWM]
8	Resource Conservation Technology
9	Integrated Farming System
10	Production & Management technology of Vegetables & Fruits crops
11	Rural Youth Empowerment [Lac & Mushroom Cultivation, Small Scale Processing & Value Addition, Preservation techniques, Vermicomposting, BGA, Soil testing]
12	Women & Child Care [balanced diet & health care, Women Empowerment]
13	LPM [Balanced Rationing, AI, Improved Breeds]
14	Safe Grain Storage
15	Processing and value addition.

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
4	210	10	220

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
10	400	20	500

Seed Production (Qtl.)	Planting material (Nos.)
200.00	15000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extensi on activities	Supply of seeds, planting materials etc.
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereal s	Oilseed s	Pulses	Commercia l Crops	Vegetables	Fruits	Flowe r	Plantati on crops	Tuber Crop s	TOTA L
IPM	-	-	-	-	Chilli, Bottlegourd	-	-	-	-	2
IDM	-	-	-	-	Tomato, Tomato	-	-	-	-	2
IWM			Blackgram	-	-	-	-	-	-	1
Natural Farming	Ragi	-	-	-	-	-	-	-	-	1
Resource conservation Technology		Mustard	-	-	-	-	-	-	-	1
Enterprises	Ragi	-	-	-	Tomato	-	-	-	-	2
Varietal replacement		Niger Mustard			Cowpea, Tomato	-	-	-	-	4
TOTAL	-	-	-	-	-	-	-	-	-	13

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
-	-	-	-	-	-	-	-	-
TOTAL								

Details of On Farm Trial (OFT)

OFT-1 (Soil Science)

Crop / Enterprise	Paddy
Title of on farm trial	Assessment of Soil Health Card (SHC) based nutrient management on productivity of Transplanted Rice (Maheshwari)
Problem diagnosed	Low yield due to improper nutrient management
Farmers' Practices	Imbalance use of Fertilizer (75:46:10) NPK kg/ha
Details of technologies selected for assessment	SHC based nutrient management
Source of technology	IGKV, Raipur
Plot size	0.80 ha.
No. of farmers	4
Total cost	-
Critical input	Seed and Fertilizer
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	No. of tillers/plant Yield (q/h) B:C ratio

OFT-2 (Soil Science)

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of Soil Health Card (SHC) based nutrient management on productivity of Wheat (CG Gehu-4)
Problem diagnosed	Low yield due to improper nutrient management
Details of technologies selected for assessment	SHC based nutrient management
Farmers' Practices	Imbalance use of Fertilizer
Source of technology	IGKV, Raipur
Plot size	0.80 ha.
No. of farmers	4
Total cost	-
Critical input	Seed and fertilizer
Performance indicators: (v) Growth and Yield attributes (vi) Technical- yield (q/ ha) (vii) Economic (viii) Social – Employment generation	No. of panicle/sq. m Yield (q/h) B:C ratio

OFT-3 Information about Extension OFT:

Title	Study on impact of CFLD oilseed (Niger, Variety – JNS-30) on the transfer of technology, production and income of farmers in Jashpur district.
Season & Year	Kharif 2024
Problem identified	The impact assessment of CFLD oilseed (Niger, Variety – JNS-30) is not conducted yet which is vital to assess the worthiness and effectiveness of this programme
Thematic Area	Impact assessment
Farming situation	-
Name of Technology Intervention under study	T1 : 25 non beneficiaries farmers with local variety and traditional practices T2 : 25 beneficiaries farmers CFLD oilseed (Niger, Variety – JNS-30)
Farmers Practice	Use of local variety and traditional practices
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
1. Extension gap 2. Technology gap. 3. Additional return 4. percent increase in yield 5. Problem faced by farmers to adopt technology.	-

OFT-4**Information about Extension OFT:**

Title	Assessment of utilization of ICT based app (Crop Doctor) in plant protection of Mustard crop by the farmers of Jashpur
Season & Year	2024-25
Problem identified	Less use of ICT based tools in agriculture by farmers
Thematic Area	ICT
Farming situation	All type
Name of Technology Intervention under study	T1-No use of Crop Doctor App in agriculture by the farmers. T2-Use of Crop Doctor App in agriculture (Plant Protection of Mustard)
Farmers Practice	All type
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
1. Utilization pattern of crop doctor app 2. Purpose of utilization 3. Accurate 4. timeliness 5. Relevance 6. Problem faced in use of crop doctor app	-

OFT-5**Information about Extension OFT:**

Title	Assessment on fungicides uses pattern of tomato farmers phytophthora root rot
Season & Year	Rabi 2024
Problem identified	High Infestation of phytophthora root rot disease in tomato
Thematic Area	Improved fungicides uses pattern of tomato crops
Farming situation	Rainfed (Farmers grow tomato crops)
Name of Technology Intervention under study	T 1: Survey on farmers fungicides use pattern of tomato crops T 2 : Training to farmers fungicides use pattern of tomato crops T3 : Training to practical and demonstration based to farmers on fungicides uses pattern of tomato crops and follow – up and tech feedback
Farmers Practice	Farmers use on own knowledge
No. of replication (Farmers)	60

Results / findings

Performance indicators/ parameters	Unit/ details
1. Uses on different fungicide 2. Fungicide use pattern 3. Knowledge level of tomato farmers on fungicide handling and safety majors. 4. Farmers perception of fungicides uses	-

OFT-6**Information about Extension OFT:**

Title	Assessment on insecticides uses pattern of mustard crops on farmers
Season & Year	Rabi 2023
Problem identified	High Infestation of phytophthora root rot disease in mustard
Thematic Area	Improved insecticides uses pattern of mustard crops
Farming situation	Rainfed (Farmers grow mustard crops)
Name of Technology Intervention under study	T 1: Survey on farmers insecticides use pattern of mustard crops T 2 : Training to farmers insecticides use pattern of mustard crops T3 : Training to practical and demonstration based to farmers on insecticides uses

	pattern of mustard crops and follow – up and tech feedback
Farmers Practice	Farmers use on own knowledge
No. of replication (Farmers)	60

Results / findings

Performance indicators/ parameters	Unit/ details
1. Uses on different insecticides 2. Insecticides use pattern 3. Knowledge level of tomato farmers on insecticides handling and safety majors. 4. Farmers perception of insecticides uses	-

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. N o.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Tomato	Varietal replacement	High yielding variety of tomato (kashi adarsh)	Seed	Rabi 2023	2.00	05/05	Yield /ha, fruits per plants, Net income (Rs), B:C Ratio
2	Tomato	Varietal replacement	High yielding variety of cow pea (kashi kanchan)	Seed	Rabi 2023	2.00	05/05	Yield /ha, fruits per plants, Net income (Rs), B:C Ratio
3	Mustard	Organic farming & Varietal	Variety- "Chhattisgarh sarson 1", Seed rate 5kg/ha, Seed treatment with Trichoderma & pseudomonas (each) 10 ml/kg of seed. Application of Bio-enriched vermicompost with Azospirillum, PSB and ZMB. Insect Pest Management with Bacillus thuringiensis and Beauveria bassiana	Crop seed, Bioagents - Trichoderma & pseudomonas, vermicompost enriched with Azospirillum, PSB and ZMB. Bio-pesticides - Bacillus thuringiensis and Beauveria bassiana	Rabi 2023	4.00	05/05	Local Check/ Farmer Practice: No. of siliqua/plant, No. of seeds/ siliqua, Yield (q/ha), Net return (Rs/ha), B:C ratio
4	Niger	Varietal evaluation	Variety- "JNS 30", Seed rate-10 kg/ha, line sowing, seed treatment with Azotobacter (10 gm/kg seed), PSB (10 gm/kg seed), Foliar application of urea @2%. PE application of Oxadiazon@ 400 g a.i./ha at 0-3 DAS	Crop seed, Bioagent – Azotobacter, PSB and Herbicide Oxadiazon @ 400 g a.i./ha for application as pre-emergence	Kharif 2023	4.00	05/05	No. of capsule/plant, No. of seeds/capsule, test weight of seed (g), Yield (q/h), Net return(Rs/ha) and B:C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	05	Jan to Dec	75
2	Farmers Training	08	Jan to Dec	100
3	Media coverage	20	Jan to Dec	-
4	Training for extension functionaries	04	Jan to Dec	50

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
-	-	-	-	-	-	-	-	-

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	-	-	-	-	-	-	-	-
2	-	-			-	-	-	-
3	-	-			-	-	-	-
4	-	-			-	-	-	-
5	-	-			-	-	-	-

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	-	-	-
2	Farmers Training	-	-	-
3	Media coverage	-	-	-
4	Training for extension functionaries	-	-	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
VI Agril. Engineering	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
VII Plant Protection	0	0	0	0	0	0	0	0	0
Integrated Pest Management	4	1	0	0	0	0	0	0	0
Integrated Disease Management	2	0	0	0	0	0	0	0	0
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0
Total	6	1	0	0	0	0	0	0	0
VIII Fisheries	0	0	0	0	0	0	0	0	0
Integrated fish farming	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0	0
Leadership development	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	2	2	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0
Total	2	2	0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0
(B) RURAL YOUTH	0	0	0	0	0	0	0	0	0
Mushroom Production	5	5	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0	0
Seed production	2	2	0	0	0	0	0	0	0
Planting material production	3	3	0	0	0	0	0	0	0
Vermi-culture	1	1	0	0	0	0	0	0	0
Value addition	1	1	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0
TOTAL	12	12	0	0	0	0	0	0	0
(C) Extension Personnel									
Productivity enhancement in field crops	1	1	0	0	0	0	0	0	0

[illegible]

B) OFF Campus

[illegible]

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Durati on in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
May	-	-	0	0	0	0	0	0	0	0
June	-	-	0	0	0	0	0	0	0	0
July	-	-	0	0	0	0	0	0	0	0
July	-	-	0	0	0	0	0	0	0	0
August	-	-	0	0	0	0	0	0	0	0
Sep	-	-	0	0	0	0	0	0	0	0
November	-	-	0	0	0	0	0	0	0	0
December	-	-	0	0	0	0	0	0	0	0
January	-	-	0	0	0	0	0	0	0	0
Horticulture										
	0	0	0	0	0	0	0	0	0	0
Livestock production										
	0	0	0	0	0	0	0	0	0	0
Home Science										
	0	0	0	0	0	0	0	0	0	0
Plant Protection										
	0	0	0	0	0	0	0	0	0	0
Agriculture Extension (Capacity Building and Group Dynamics)										
May	-	IPM in vegetable corps	1	0	0	0	0	0	0	0
June	-	Crop production (Integrated crop management)	1	0	0	0	0	0	0	0
July	-	Crop production (Deep ploughing)	1	0	0	0	0	0	0	0
August	-	Crop production (Natural farming)	1	0	0	0	0	0	0	0
Sep	-	Title	1	0	0	0	0	0	0	0
October	-	Title	1	0	0	0	0	0	0	0
Soil Science										
May	-	Training on Integrated Nutrient Management in Finger Millet	1	0	0	0	0	0	0	0
June	-	Hands on Training on production of ermin compost	1	0	0	0	0	0	0	0
July	-	Training on preparation of vermin wash	1	0	0	0	0	0	0	0
July	-	Hands on training on soil sampling	1	0	0	0	0	0	0	0
August	-	Training on soil treatment through	1	0	0	0	0	0	0	0

		biofertilizer								
Sep	-	Training on green manuring in Kharif paddy	1	0	0	0	0	0	0	0
November	-	Training on Integrated Nutrient Management in Finger Millet	1	0	0	0	0	0	0	0
December	-	Hands on Training on production of ermin compost	1	0	0	0	0	0	0	0
January	-	Training on preparation of vermin wash	1	0	0	0	0	0	0	0

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April	-	-	0	0	0	0	0	0	0	0
Horticulture										
0	0	0	0	0	0	0	0	0	0	0
Livestock production										
0	0	0	0	0	0	0	0	0	0	0
Home Science										
0	0	0	0	0	0	0	0	0	0	0
Plant Protection										
0	0	0	0	0	0	0	0	0	0	0
Agriculture Extension (Capacity Building and Group Dynamics)										
0	0	0	0	0	0	0	0	0	0	0
Soil Science										
July	-	Hands on training on application of biofertilizer in pulses	1	0	0	0	0	0	0	0
August	-	Training on application of liquid fertilizer in cereal, pulses and oil seed crops	1	0	0	0	0	0	0	0
September	-	Hands on Training on preparation of Ghanjeevamrit	1	0	0	0	0	0	0	0
October	-	Hands on Training on preparation of Beejamrit and Jeevamrit	1	0	0	0	0	0	0	0
November	-	Training on soil treatment through biofertilizer	1	0	0	0	0	0	0	0
December	-	Training on Integrated nutrient management in Millet crops	1	0	0	0	0	0	0	0

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Dec	-	Organic farming	03	0	0	0	21	9	30	30
Horticulture										
Dec	-	Small Nursery Management	03	0	0	0	21	9	30	30
	0	0	0	0	0	0	0	0	0	0
Livestock production	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Home Science	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Plant Protection	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Agriculture Extension (Capacity Building and Group Dynamics)										
Ag. Engg.	-	-	-	-	-	-	-	-	-	-
Ag. Engg.	-	-	-	-	-	-	-	-	-	-
Soil Science										
Oct	0	0	1	0	0	0	0	0	0	0
Nov	0	0	1	0	0	0	0	0	0	0
Dec	0	0	1	0	0	0	0	0	0	0

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Feb	-	Crop Production technology of pulses and oilseed	01	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
Horticulture										
April	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-
Livestock production										
0	0	0	0	0	0	0	0	0	0	0
Home Science										
0	0	0	0	0	0	0	0	0	0	0
Plant Protection										
0	0	0	0	0	0	0	0	0	0	0
Agriculture Extension (Capacity Building and Group Dynamics)										
0	0	0	0	0	0	0	0	0	0	0
Soil Science										
Oct			1	0	0	0	0	0	0	0

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Nov			1	0	0	0	0	0	0	0

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy		
	Wheat		
OILSEEDS	Mustard		
	Groundnut		
	Linseed		
PULSES	Pigeonpea		
	Blackgram		
VEGETABLES	Colocasia		
	Tomato		
	Bottlegourd		
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango		
	Guava		
SPICES	Jackfruit		
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
3				
BIO PESTICIDES				

1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Animal Husbandry	Gir		-
				-
SHEEP AND GOAT	Sheep and Goat Farming	Barbari		-
POULTRY	Poultry unit	Kadaknath		-
FISHERIES				-
Others (Specify)				-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
January	Jan to March	1000
April	April to June	1000
July	July to Sep	1000
Oct	Oct to Dec	1000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	-	-	-
2	-	-	-
3			

Success stories/Case studies identified for development as a case: (03 no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. N	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA, Line Department
2	Rural Youth	Ex Trainees
3	In-service personnel	Line Department
4	Methodology for identifying OFTs/FLDs	AES
5	Matrix ranking	-

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Kodkelkhajri	Pathalgaon	08 km

2	<i>Lamdand</i>	Kansabel	06 km
3	<i>Dumarbahar</i>	Pathalgaon	00 km
4	<i>Pemla</i>	Kansabel	10 km
5	<i>Chandagarh</i>	Pathalgaon	10 km
6	<i>Bhaisamuda</i>	Pathalgaon	11 km
7	<i>Saraitola</i>	Pathalgaon	10 km
8	<i>Bahnatangar</i>	Pathalgaon	50 km
9	<i>Ludeg</i>	Pathalgaon	13 km
10	<i>Bataikela</i>	Kansabel	25 km
11	<i>Dhodhibahar</i>	kunkuri	30 km
12	<i>Pattakeal</i>	Bagicha	50 km
13	<i>Bagiya</i>	Kansabel	40 km
14	<i>Gala</i>	Pathalgaon	45 km
15	<i>Chidora</i>	Kansabel	10 km

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment : 2016

List of equipments purchased:

Sl. No	Name of the Equipment	Qty.	Condition
1	Mini Soil Testing Kit	1	Not Working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	-	-	-	-
Water Samples	-	-	-	-
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
-	-

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
-	-

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Action plan for Flagship programmes implemented at KVK
(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
-	-	-

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 1000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif			500
Wheat	Rabi			500

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Mushroom Production and Spawn unit	Mushroom and Spawn	300	Output

ANNUAL ACTION PLAN 2024

KVK Kanker

Year of sanction: 2024

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Birbal Sahu	-	0942471093	bbsahu71@gmail.com

1.2 Staff Position on (31th Dec.2023)

S. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Sr. Scientist & Head	Dr. Birbal Sahu	Sr. Scientist & Head	Agronomy	37400-67000 + 9000	05.12.2007	15.09.2023	9424710953	bbsahu71@gmail.com	
2	SMS/ Scientist 1	Er. Narendra Haridas Tayade	SMS	FMPE	15600-39100 + 5400	01.01.2019	01.01.2019	9407909941	narendrakumarnag@gmail.com	
3	SMS/ Scientist 2	Dr. D. Suryam Dora	SMS	LPM	15600-39100 + 5400	06.10.2018	06.10.2018	9302770100	drsuryam0712@gmail.com	
4	SMS/ Scientist 3	Dr. Chandu Lal Thakur	SMS	Agronomy	15600-39100 + 5400	11.10.2018	11.10.2018	7828650576	clthakur99@gmail.com	
5	SMS/ Scientist 4	Dr. Komal Singh Keram	SMS	Soil Science	15600-39100 + 5400	23.10.2018	23.10.2018	9479273229	keramsoils@gmail.com	
6	SMS/ Scientist 5	Shri Upendra Kumar Nag	SMS	Plant Pathology	15600-39100 + 5400	01/11/2018	01/11/2018	9098642285	upnag69@gmail.com	
7	SMS/ Scientist 6	Dr. Kiran Kumar Nagraj	SMS	Horticulture	15600-39100 + 5400	15.09.2023	15.09.2023	8253077797	kiran.nagraj90@gmail.com	
8	Programme Assistant	Shri Dinesh sinha	PA (Ento)	Entomology	9300-34800/-	29.10.2014	29.10.2014	9179290663	dinesh.sinha1@gmail.com	
9	Farm Manager	Shri Pradeep Kumar Dewangan	FM	Agronomy	9300-34800/-	31.10.2019	31.10.2019	7828645754	dewangan2050@gmail.com	
10	Computer Programmer	Shri Gyaneshwar Sahu	PA (Com)	Computer	9300-34800/-	03.10.2012	03.10.2012	9893273025	gyaneshwarsahu@gmail.com	
11	Accountant / superintendent (AGI)	Meena Chauhan	AG I (Contractual)	-	20900/month	08.01.2021	08.01.2021		Contractual	
12	Stenographer (AGII)	Smt. Usha Bhardwaj	AG II	-	18420/ Month	08.01.2021	08.01.2021		Contractual	
13	Driver	Kamleshwar Sahu	Driver	12th	5200-20200/-	01.08.2018	01.08.2018	9424226816	kamsahuji@gmail.com	
14	Driver	Shri Roshan Lal Mandavi	Driver (Contractual)	-	14200/- month	12.01.2021	12.01.2021		Contractual	
15	Supporting staff, if any	Shri Harishankar Yadav	Watchman	8 th	4750-7440/-	28.06.2010	28.06.2010	9754737271	harryadav470@gmail.com	
16	Supporting staff, if any	Shri Rajesh Shori	Watchman (Contractual)	5th	11360/- month	08.01.2021	08.01.2021		Contractual	

1.3 Total land with KVK (in ha): 18.18

S. No.	Item	Area (ha)
1	Under Buildings	1.066
2	Under Demonstration Units	2.00
3	Under Crops	10.49
4	Orchard/Agro-forestry	4.624
5	Others (specify)	-
Total		18.18

1.4 Infrastructural Development:**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2012	275				
2	Farmers Hostel	ICAR	2017	100	68.00			
3	Staff Quarters (6)	NA	-	-	-			
4	Demonstration Units (Dairy, Goatry)	ICAR, TSP, DMFT	2016	30	7.00			
5	Fencing	RKVY	2012	900 rm	5.40			
6	Rain Water harvesting system	ICAR	2012	10				
7	Threshing floor	NA	-	-	-			
8	Farm godown	ICAR (Seed hub)	2018	1000q	35.00			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2023	726336	108 hr	Good
Motor Cycle 1 (Hero Honda Glamour)	2010	50000.00	110000	Yet to be condemn
Motor Cycle (Super Splendor)	2014	70000.00	40000	Good
Bolero(Jeep)	2019	600000.00	115087	Good
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
LCD TV	2013	53500.00	Good
Smart TV	2013	146450.00	Good
Photo copier	2012	53014.00	Yet to be condemn
Photo copier	2008	51953.00	Yet to be condemn
LCD Projector	2011	62268.00	Condemn
LCD Projector	2013	34428.00	Condemn
VIEWSONIC DLP PROJECTOR	2017	40000.00	Good
6 ft x 4 ft High Gain Projection Screen	2017	4900.00	Good
Sony digital camera	2011	9995.00	Condemn
Sony digital camera	2008	8990.00	Condemn
Nikon Camera	2017	23000.00	Good

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	08 April 2024
2	04 October 2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	Irrigated	Crop + Dairy + Goatry + Piggery + Poultry + Fishery+ Agro forestry + Vermi composting + Mushroom
2	Unirrigated	Crop + Piggery + Poultry + Goatry + Lac

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	Chhattisgarh Plain and Bastar plateau	Soils is a member of fine loamy, kaolinitic, isohyperthermic, deep family of Typic Haplustalfs. This series include deep, moderately well drained soils, developed from feldspathic quartzitic schist gneiss and banded granite gneiss and occurring on gently sloping upper piedmont. They are sandy loam at surface to sandy clay loam and gravelly clay towards the depth. The soils are mostly under forest vegetative cover like hars, karra, tendu, mahua and occasionally cultivated for kodo and kutaki. Shallow rooting depth, gravelly substrata, ground water, laterites permeability, low moisture holding and storage capacity, slope gradient 3-5 per cent slope and undulating topography

SWOT Analysis of each Agro-Ecological Situations of district AES-1 (name)

Strength	Weakness	Opportunities	Threats
Availability of all the natural resources	lack of awareness and technical knowledge	- Crop diversification - Integrated Farming System - Agro forestry - Production of Live stock	- Water and soil conservation - Natural resource management - Farm machinery and implements - Communication gap and skill development

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	643
Forest	156.825
Waste Land	37.487
Other than cultivated area	67.251
Cultivable waste and alkaline land	51.015
Pastures	67.116
Bushes	35.21
Current Fallow	8.236
Other Fallow	15.842
Agricultural Land	259.443
Area Sown	306.747
Kharif	216.147
Rabi	90.600
Zaid	18.25
Cropping Intensity	141.92%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	1200
2	Well	27600
3	Tube well	270
4	Ponds	2500
5	Others	20460

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Sandy loam	pH : 6-8.1	37672
2	Loamy sand	EC (dS m ⁻¹): 0.10-0.29	66211
3	Sandy clay loam	OC(%): 0.33-0.78	67345
4	Clay loam	CaCO ₃ (%): 0.82-7.96 BD (Mg m ⁻³): 1.29-1.61 Isohyperthermic (< 22 ⁰ C) Available N : 97-358 Kg ha ⁻¹ Available P : 3.31-37.28 Kg ha ⁻¹ Available K : 107-538 Kg ha ⁻¹ DTPA-Zn (mg Kg ⁻¹) : 0.12 - 2.38 DTPA-Fe (mg Kg ⁻¹) : 2.50-152.0 DTPA-Cu (mg Kg ⁻¹) : 0.12 - 8.31 DTPA-Mn (mg Kg ⁻¹) : 5.51 - 38.81	41274

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Rice	184000	4092160	22.24
2	Maize	24139	805277	33.36
3	Wheat	3250	51252	15.77
4	Chickpea	6500	57850	8.9
5	Black gram	1767	6643	3.76
6	Horse gram	7300	19272	2.64
7	Finger millet	4060	28826	7.1

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 2023	13.0	28.4	13.0
Feb, 2023	21.0	29.3	11.7
Mar, 2023	42.5	33.0	18.2
Apr, 2023	61.4	35.8	21.6
May, 2023	1.5	38.3	23.8
Jun, 2023	116.6	37.30	25.9
July, 2023	375.5	31.12	24.8
Aug., 2023	182.6	30.5	24.6
Sept., 2023	339.10	30.9	24.5
Oct. 2023	16.5	34.8	23.0
Nov. 2023	0.9	31.1	18.6
Dec. 2023	-	-	-

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	3,43,329	34.653 MT.	4.25 kg
Buffalo	21,558	4.372 MT.	4.6 kg
Sheep			
<i>Crossbred/ Indigenous</i>	2,602	0.00 MT wool	0.0 kg
Goats	1,85,263	2.662 MT	11.26 kg
Pigs <i>Crossbred/ Indigenous</i>	61,975	0.094 MT	7.3 kg
Rabbits	-		
Poultry			
Hens	8,98,114	308.749 Lakh eggs	58 eggs/ bird/yr
Turkey and others	-		
Category	Area	Production	Productivity
Fish	11,925.32 (ha)	3,86,012 Q/ month	39.10 Q/ ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Kanker	Kanker	Mohpur	Vegetables	Use of low yield local varieties	Introduction of improved varieties
2	Kanker	Kanker	Barchegindi	Chickpea	Wilt infestation and unavailability of late sown and drought tolerant varieties	introduction of improved wilt resistant, drought tolerant and late sown varieties
3	Kanker	Kanker	Nawagaon Bhavgir	Poultry	Lack of feed and housing management, livestock immunization	Proper feed and housing management, Timely vaccination

Priority / Thrust areas

S. No.	Particulars
1.	Improvement in production and productivity of major crops like Paddy, Urd, Sesame, Chickpea, Wheat, Linseed and Maize by introduction of improved varieties within the existing situation.
2.	Nutrient management in major crops for obtaining potential yield and maintaining soil fertility.

3	Diversification of existing farming systems through introduction of vegetables and fruit crops.
4	Insect pest and disease management in major crops.
5	Empowerment of women and generation of self-employment for rural youths.
6	Recycling of farm and animal wastes through vermi-composting.
7	Mechanization through introduction of improved implements.
8	Management and up gradation of indigenous cattle breeds through AI services.
9	Enhancement of profit with focus on value addition.

TECHNICAL PROGRAMME

0. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
11	55	14	85

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
73	365	417	51015

Seed Production (Qtl.)	Planting material (Nos.)
451	85000

B. Abstract of interventions to be undertaken

S. N o.	Thru st area	Crop/ Enterpri se	Identified Problem	Interventions					
				Title of OFT if any	Titl e of FL D if an y	Title of Training if any	Title of training for extensi on person nel if any	Extensi on activities	Supply of seeds, plantin g materi als etc.
1	Impro ved variet es	Rice	Low yield	Assessment of improved variety of Rice MTU 1318		Production technology of rice	Producti on technolo gy of Kharif crops	Demonstrati on	Quality Seed
	Impro ved variet es	Millet	Low yield due to use of age old variety	Assessment of different date of transplanting in finger millet		Advance Production technology of millets	Advance Producti on technolo gy of millets	Awareness programme Demonstrati on, Field day	Quality Seed
	Nutri ent mana geme nt	Millet	Low yield due to no use of fertilizer	Assessment of nutrient management practices in finger millet under Natural Farming		Nutrient management - jivamrit - ghanjivamrit-beejamrit	Nutrient manage ment - jivamrit - ghanjiva mrit-beejamrit	Awareness programme Demonstrati on, Field day	Improve d Seed
	Vermicom postin g	Vermicomposting	Slow rate of vermicomposting	Assessment of Conversion rate of vermicomposting using various quantitative ratio of cow dung & crop/plant residue.		Vermicomposting and vermi culture	Vermicomposting and vermi culture	Demonstrati on	Earthworm (E. Fetida)
	Disea se mana geme nt	Brinjal	High yield loss due to bacterial wilt in Brinjal	Assessment of Bio control agent against Bacterial Wilt in Brinjal		Disease management in Brinjal	Disease manage ment in Brinjal	Demonstrati on	Seed, Bio agent
	Disea se mana geme nt	Black gram	Low yield due to infestation of yellow mosaic	Assessment of IDM tools against yellow mosaic disease in Black gram		Disease management in Black gram	Disease manage ment in Black gram	Awareness programme, Demonstrati on,	Chemic al
	Farm mach enizat ion	Rice	Heavy infestation of weeds causing high labour cost in weeding causing yield reduction	Assessment of self propelled power weeder for weeding in rice		Weed management in Rice crop	Weed manage ment in Rice crop	Demonstrati on	Seed, self propped power weeder
	Farm mach enizat ion	Finger millet	Non availability labour in time and high cost, Lack of knowledge	Assessment of self propelled reaper for harvesting of finger millet		Production technology of Finger millet	Producti on technolo gy of Finger millet	Demonstrati on	Seed, self propped power weeder
	Crop mana geme nt	Water Melon	Low yield of existing crop (Maize)	Assessment of watermelon cultivation in upland alongwith polythene mulching		Production technology of water melon	Producti on technolo gy of water melon	Demonstrati on	Seedling s, Mulchin g sheet
	Nutri ent mana geme nt	Bottle gourd	Imbalance or no use of PGRs	Assessment of Foliar application of Ethrel PGR at 2 & 4 True leaf stages in Bottle gourd		Production technology of Bottle gourd	Producti on technolo gy of Bottle gourd	Demonstrati on	PGR
	Disea se mana geme nt	Poultry	High mortality of poultry birds due to diseases	Assessment of IDM module against poultry diseases		Poultry rearing	Poultry rearing	Demonstrati on	Chicks & Vaccine

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Farm machenization	2									2
Plant protection										-
Crop management	2				1	1				4
Varietal	1									1
Disease management			1		1					2
Pest management										-
TOTAL	5	-	1	-	2	1	-	-	-	9

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Quail	Fisheries	TOTAL
Housingh management		1						1
Vermicompost	1					0		1
TOTAL	1	1	0	0	0	2	0	2

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of improved variety of Rice MTU 1318	
Problem diagnosed	Low yield	
Farmers' Practices	Rice variety Swarna	
Details of technologies selectedfor assessment	T ₁	Rice Variety MTU 1318
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	Rs. 1500/- per trial	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No of effective tiller/sqm, No. of grains per panicle, Panicle length cm, Yield (q/ha), B:C ratio	

OFT-2

Crop / Enterprise	Finger millet	
Title of on farm trial	Assessment of different date of transplanting in finger millet	
Problem diagnosed	No protocol for sowing in Rabi season	
Farmers' Practices	No protocol for sowing in Rabi season	
Details of technologies selectedfor assessment	T ₁	15 December
	T ₂	25 December
Source of technology	IGKV Raipur	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	Rs. 1500/- per trial	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No of effective tiller/sqm, No. of Panicle per plant, Yield (q/ha), B:C ratio	

OFT-3

Crop / Enterprise	Finger millet	
Title of on farm trial	Assessment of nutrient management practices in finger millet under Natural Farming	
Problem diagnosed	Low yield due to no use of fertilizer	
Farmers' Practices	No use of fertilizer	
Details of technologies selected for assessment	T ₁	Nutrient management practices • Seed treatment with Beejamrit@5 L/5kg seed • Jeevamrit @ 500 L/ha • Ghanjeevamrit @ 250 L/ha
	T ₂	
Source of technology	IGKV Raipur	
Plot size	0.4 ha	
No. of farmers	5	
Total cost	Rs. 1000/- per trial	
Critical input	Plastic drum, Besan, Jaggery	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of effective tiller/plant, yield q/ha, change in fertility (N,P,K & OC) status of soil, B:C Ratio	

OFT-4

Crop / Enterprise	Vermicomposting	
Title of on farm trial	Assessment of Conversion rate of vermicomposting using various quantitative ratio of cow dung & crop/plant residue	
Problem diagnosed	Imbalance ratio of cow dung and crop/plant residue. Low population of earth worm	
Farmers' Practices	Soil health and nutrient management	
Details of technologies selected for assessment	T ₁	50% cow dung + 50% crop/plant residue
	T ₂	60% cow dung + 40% crop/plant residue
Source of technology	NIRDPR Hyderabad (TS)	
Plot size	6' x 4' x 3'	
No. of farmers	5	
Total cost	Rs. 1000/- per trial	
Critical input	Earthworm (<i>E. Fetida</i>)	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Earthworm population/sqm, Duration of vermicomposting days.	

OFT-5

Crop / Enterprise	Brinjal	
Title of on farm trial	Assessment of Bio control agent against Bacterial Wilt in Brinjal	
Problem diagnosed	High yield loss due to bacterial wilt in Brinjal	
Farmers' Practices	No use of bio control agent	
Details of technologies selected for assessment	T ₁	Seed treatment with Psedumonas talc based formulation 10 gm/100 gm of seed
	T ₂	Deeping of seedling for 20-30 min. in Bacillus subtilis 10ml per liter of water solution.
Source of technology	IGKV Raipur	
Plot size	0.20 ha	
No. of farmers	5	
Total cost	Rs. 1000/- per trial	
Critical input	Seed, Bio agent	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Reduction of Bacterial wilt%, Yield q/ha, B:C Ratio	

OFT-6

Crop / Enterprise	Black gram	
Title of on farm trial	Assessment of IPM tools against yellow mosaic disease in Black gram	
Problem diagnosed	Low yield due to infestation of yellow mosaic	
Farmers' Practices	No use of control measure	
Details of technologies selected for assessment	T ₁	Emida chlorpid 250ml/ha
	T ₂	Notchi leaf (Nirgundi) 10% solution 30DAS
Source of technology	TANU	
Plot size	0.20 ha	
No. of farmers	5	
Total cost	Rs. 1500/- per trial	
Critical input	Chemical	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Disease incidence, Yield q/ha, B:C Ratio	

OFT-7

Crop / Enterprise	Rice Crop	
Title of on farm trial	Assessment of self propelled power weeder for weeding in rice	
Problem diagnosed	Heavy infestation of weeds causing high labour cost in weeding causing yield reduction	
Farmers' Practices	Manual Weeding	
Details of technologies selected for assessment	T1	Self propelled power weeder
	T2	
Source of technology	Commercial make	
Plot size	0.40 ha	
No. of farmers	5	
Total cost	20000/-	
Critical input	Seed, Fertilizer and self propped power weeder	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Weed control efficiency(%), Field Efficiency(%), Fuel Consumption (l/hr), B:C ratio	

OFT-8

Crop / Enterprise	Finger Millet	
Title of on farm trial	Assessment of self propelled reaper for harvesting of finger millet	
Problem diagnosed	Non availability labour in time and high cost, Lack of knowledge	
Farmers' Practices	Manual Weeding	
Details of technologies selected for assessment	T ₁	Tractor drawn happy seeder
	T ₂	
Source of technology	Commercial make	
Plot size	0.40 ha	
No. of farmers	5	
Total cost	Rs. 20000/-	
Critical input	Seed, Fertilizer and self propelled reaper	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Field Capacity (%), Field Efficiency(%), Fuel Consumption (l/hr), Harvesting Cost (Rs/ha), Harvesting Loss (%) B:C ratio	

OFT-9

Crop / Enterprise	Water Melon	
Title of on farm trial	Assessment of watermelon cultivation in upland alongwith polythene mulching	
Problem diagnosed	Low yield of existing crop (Maize)	
Farmers' Practices	Maize	
Details of technologies selected for assessment	T ₁	Watermelon cultivation in upland situation alongwith drip and polythene mulching
	T ₂	
Source of technology	IIHR	

Plot size	0.50 ha
No. of farmers	5
Total cost	Rs. 2500/- per trial
Critical input	Seedlings, Mulching sheet
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Crop equitant Yield q/ha, B:C

OFT-10

Crop / Enterprise	Bottle gourd
Title of on farm trial	Assessment of Foliar application of Ethrel PGR at 2 & 4 True leaf stages in Bottle gourd
Problem diagnosed	Low yield due to less no. of female flower
Farmers' Practices	Imbalance or no use of PGRs
Details of technologies selected for assessment	T1 Foliar application of Ethrel PGR @ 25 ppm at 2 & 4 leaves stages in bittergourd T2
Source of technology	IGKV, Raipur
Plot size	0.20 ha
No. of farmers	5
Total cost	Rs. 2000/- per trial
Critical input	PGR
Performance indicators:	Yield q/ha., B:C ratio

OFT -11

Enterprise	Poultry
Title of on-farm trial	Assessment of IDM module against poultry diseases
Problem diagnosed	High mortality of poultry birds due to diseases
Farming situation	-
Production system and thematic area	Disease management
Farmers' practices	No vaccination & medicine
Details of technologies selected for assessment/refinement Treatments	: T ₁ : Timely vaccination Ranikhet (F-strain, Gambaro, Lasota & R2B), multivitamin : T ₂ :
Source of technology	DSVCKV, Durg
No. of animals	50 birds
No. of farmers	5
Critical input	Chicks & Vaccine
Cost of input	Rs. 4000/- per Trial
Total cost	Rs. 20000.00
Performance indicators Observation to be recorded	Weight gain in three months (kg/birds) Morbidity (%), Mortality (%)

Information about Extension OFT:

Title	
Season & Year	
Problem identified	
Thematic Area	
Farming situation	
Name of Technology Intervention under study	

Farmers Practice	
No. of replication (Farmers)	

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Rice	Insect management	Demonstration of use of <i>Metarhizium anisopliae</i> as Bio control agent against rice brown plant hopper population	<i>Metarhizium anisopliae</i>	Kharif 2024	5.00	10	Insect infestation/spm, Yield q/ha, B:C Ratio
2	Chickpea	Disease management	Demonstration of use of biocontrol agent in chickpea	<i>Trichodarma</i> , <i>Pseudomonas</i> and Carbendazime	Rabi 2024	5.00	10	Disease severity /spm, Yield q/ha, B:C Ratio
3	Rice	Nutrient Management	Introduction of soil test based nutrient management in upland rice (T.Y. 40q/ha)	Seed, Fertilizer, Plant protection Kit	Kharif 2024	4.00	10	Plant population/sqm, No. of tillers/sqm, Yield (q/ha), B:C Ratio, PHSTV
4	Maize	Nutrient Management	Introduction of soil test based nutrient management in maize (T.Y. 60q/ha)	Seed, Fertilizer, Plant protection measure,	Kharif 2024	4.00	10	Cob length (cm), No. of grains per cob, Yield (q/ha), B:C Ratio, PHSTV
5	Finger millet	Crop Management	Demonstration of improved variety of Finger millet with ICM Practices	Seed, Bio fertilizer	Kharif 2024	4.00	10	Plant population/sqm, No. of tillers/sqm, Yield (q/ha), B:C Ratio
6	Kodo millet	Crop Management	Demonstration of improved variety of Kodo millet with ICM Practices	Seed, Bio fertilizer	Kharif 2024	4.00	10	Plant population/sqm, No. of tillers/sqm, Yield (q/ha), B:C Ratio
7	Maize	Weed Management	Introduction of Weed Management in Maize	Herbicide	Kharif 2024	4.00	10	Weed biomass (sqm), Yield (q/ha), B:C ratio
8	Marigold	Crop Management	Demonstration of pinching effect on yield of African Marigold	Seed	Rabi 2024	0.20	5	Plant height, No. of Branches, Duration of Flowering, No of Flower per plant, Flower Yield per plant
9	Ivy Gourd	Intensive cropping	Demonstration of Multi story cropping	Planting material	Kharif 2024	0.10	5	Economics, LER, B:C ratio
10	Tomato	Varietal management	Demonstration of high yielding triple disease resistance variety of Tomato Arka Samrat	Planting material	Rabi 2024	1.00	5	Plant Height, No. of fruit per plant, Yield (q per plant),Yield q/ha, B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	8	October, November	600
2	Farmers Training	14	July, August, September	400
3	Media coverage	15	-	-
4	Training for extension functionaries	2	August	60

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Demonstration of Tractor drawn planter for sowing of millet crop	Finger millet	Kharif 2024	10	5.00	Tractor drawn planter for sowing millet crop	Yield (q per ha.), Field capacity (ha/hr), Labour Saving(man hr)		
Demonstration of Tractor drawn planter for sowing of linseed crop	Linseed	Rabi 2024	10	5.00	Tractor drawn planter for sowing of linseed crop	Yield (q per ha.), Field capacity (ha/hr), Labour Saving(man hr)		
Demonstration of Ragi (Finger Millet) Thresher	Finger Millet	Kharif 2024	10	5.00	Finger Millet Thresher (1 hp electric motor)	Yield (q per ha.), Field capacity (ha/hr), Labour Saving(man hr)		

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Goat	Graded Sirohi	5	10	Low cost bamboo floor shed	Body growth in six months (kg), Morbidity %, Mortality %		

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2024)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1								
2								

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	5	February and October	400
2	Farmers Training	10	July, September, October, November, January	300
3	Media coverage	5	July, September, October, November, January	-
4	Training for extension functionaries	2	June, October	100

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	3	3	15	15	30	30	30	60	90
Resource Conservation Technologies	1	1	5	5	10	10	10	20	30
Integrated Farming	3	3	15	15	30	30	30	60	90
Water management	2	2	10	10	20	20	20	40	60
Seed production	2	2	10	10	20	20	20	40	60
Integrated Crop Management	2	2	10	10	20	20	20	40	60
Total	13	13	65	65	130	130	130	260	390
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	2	2	10	10	20	20	20	40	60
Protective cultivation (Green Houses, Shade Net etc.)	1	1	5	5	10	10	10	20	30
Total	3	3	15	15	30	30	30	60	90
b) Fruits									
Management of young plants/orchards	1	1	5	5	10	10	10	20	30
Total	1	1	5	5	10	10	10	20	30
c) Ornamental Plants									
Total									
d) Plantation crops	1	1	5	5	10	10	10	20	30
Total	1	1	5	5	10	10	10	20	30
e) Tuber crops	2	2	10	10	20	20	20	40	60
Total	2	2	10	10	20	20	20	40	60

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
farmers/youths									
WTO and IPR issues									
Total									
XI Agro-forestry									
Total									
XII Others (Pl. Specify)									
Grand Total									
(B) RURAL YOUTH									
Mushroom Production	3	3	15	15	30	30	30	60	90
Bee-keeping	1	1	5	5	10	10	10	20	30
Seed production	1	1	5	5	10	10	10	20	30
Planting material production	1	1	5	5	10	10	10	20	30
Vermi-culture	1	1	5	5	10	10	10	20	30
Value addition	3	3	15	15	30	30	30	60	90
Sheep and goat rearing	2	2	10	10	20	20	20	40	60
Para extension workers									
TOTAL	12	12	60	60	120	120	120	240	360
(C) Extension Personnel									
Productivity enhancement in field crops									
Integrated Pest Management	2	2	10	10	20	20	20	40	60
Integrated Nutrient management									
Protected cultivation technology									
Group Dynamics and farmers organization									
Capacity building for ICT application									
Livestock feed and fodder production	1	1	5	5	10	10	10	20	30
Production and use of organic inputs									
Gender mainstreaming through SHGs									
Any other (Pl. Specify)									
TOTAL	3	3	15	15	30	30	30	60	90

[illegible]

[illegible]

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
August- September, December	90	Weed management on Kharif and Rabi crops	3	15	15	30	30	30	60	90
August	30	Resource Conservation Technologies	1	5	5	10	10	10	20	30
August- September, December	90	Integrated Farming	3	15	15	30	30	30	60	90
June	60	Water management	2	10	10	20	20	20	40	60
June-July	60	Seed production	2	10	10	20	20	20	40	60
August- September	60	Integrated Crop Management	2	10	10	20	20	20	40	60
Total	390		13	65	65	130	130	130	260	390
Horticulture										
October- March	60	Off-season vegetables	2	10	10	20	20	20	40	60
December	30	Protective cultivation (Green Houses, Shade Net etc.)	1	5	5	10	10	10	20	30
February	30	Management of young plants/orchards	1	5	5	10	10	10	20	30
June	30	Management of old Plantation	1	5	5	10	10	10	20	30
June	60	Production technology of tuber crops	2	10	10	20	20	20	40	60
June, January	60	Spices Production and Management technology	2	10	10	20	20	20	40	60
June, January	60	Production and management technology of medicinal crops	2	10	10	20	20	20	40	60
Livestock production										
June	30	Dairy Management	1	5	5	10	10	10	20	30
July, May	60	Poultry Management	2	10	10	20	20	20	40	60
August, October	60	Disease Management of livestock	2	10	10	20	20	20	40	60
August	30	Feed management	1	5	5	10	10	10	20	30
January	60	Production of quality animal	2	10	10	20	20	20	40	60

		products								
October	60	Sheep and goat rearing	2	10	10	20	20	20	40	60
Home Science	-	-	-	-	-	-	-	-	-	-
Plant Protection										
September, February	90	Integrated Pest Management	3	15	15	30	30	30	60	90
September, February	90	Integrated Disease Management	3	15	15	30	30	30	60	90
September, February	30	Bio-control of pests and diseases	1	5	5	10	10	10	20	30
September, February	30	Production of bio control agents and bio pesticides	1	5	5	10	10	10	20	30
Agriculture Extension (Capacity Building and Group Dynamics)										
September, October	90	Mushroom Production	3	15	15	30	30	30	60	90
December	30	Bee-keeping	1	5	5	10	10	10	20	30
August	30	Seed production	1	5	5	10	10	10	20	30
August	30	Planting material production	1	5	5	10	10	10	20	30
May, February	90	Value addition	3	15	15	30	30	30	60	90
Soil Science										
September	90	Vermi-compost production	3	15	15	30	30	30	60	90
October	30	Vermi-culture	1	5	5	10	10	10	20	30

2. Off Campus

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
August	60	Production technology of Kharif crops	2	10	10	20	20	20	40	60
January	60	Production technology of Rabi crops	2	10	10	20	20	20	40	60
Horticulture										
February	60	Orchard management	2	10	10	20	20	20	40	60
Livestock production										
October	60	Dairy and Poultry management	2	10	10	20	20	20	40	60
Home Science										
Plant Protection										
September	60	Disease and pest management of Kharif crops	2	10	10	20	20	20	40	60
January	60	Disease and pest management of Kharif crops	2	10	10	20	20	20	40	60
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
June	60	Soil health and Nutrient management	2	10	10	20	20	20	40	60

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration <i>n</i>	Client PF/RY/EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Small poultry farmers	Live stock production	21 days	RY	1	5	5	2	3	2	3	20	PMKVY/MMKVY
2	Mushroom grower	Income generation	21 days	RY	1	5	5	2	3	2	3	20	PMKVY/MMKVY

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	8	250	150	400	5	3	8	255	153	408
Kisan Mela	1	850	350	1200	15	10	10	865	360	1225
Kisan Ghosthi	14	250	150	400	10	5	5	260	155	415
Exhibition	8	800	500	1300	8	5	5	808	505	1313
Film Show	3	500	200	700	2	2	2	502	202	704
Method Demonstrations	6	250	150	400	3	2	2	253	152	405
Farmers Seminar	3	200	100	300	5	1	1	205	101	306
Workshop	10	350	250	600	5	1	1	355	251	606
Group meetings	8	150	100	250	5	2	2	155	102	257
Lectures delivered as resource persons	5	150	100	250	7	0	0	157	100	257
Newspaper coverage	50	Mass	Mass	Mass	7	0	0	Mass	Mass	Mass
Radio talks	2	Mass	Mass	Mass	7	0	0	Mass	Mass	Mass
TV talks	5	Mass	Mass	Mass	7	0	0	Mass	Mass	Mass
Popular articles	5	300	200	500	7	0	0	307	200	507
Extension Literature	5	300	200	500	7	0	0	307	200	507
Advisory Services	110	20000	10000	30000	7	0	0	20007	10000	30007
Scientific visit to farmers field	50	250	150	400	7	0	0	257	150	407
Farmers visit to KVK	80	6000	5000	11000	50	35	35	6050	5035	11085
Diagnostic visits	10	100	60	160	7	0	0	107	60	167
Exposure visits	4	60	60	120	7	0	0	67	60	127
Ex-trainees Sammelan	2	30	30	60	7	0	0	37	30	67
Soil health Camp	1	80	40	120	2	0	2	82	40	122
Animal Health Camp	2	100	100	200	2	1	1	102	101	203
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	1	60	30	90	2	0	0	62	30	92
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	2	10	50	60	2	0	0	12	50	62
Mahila Mandals Conveners meetings	2	0	50	50	2	0	0	2	50	52
Celebration of important days (World soil health day, Parthenium day, World Honey bee day, World Milk Day, Environment Day etc)	15	500	400	900	7	0	0	507	400	907
Others (PM Event etc)	5	500	300	800	7	0	7	507	300	807
Total	417	32040	18720	50760	209	67	81	32228	18787	51015

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	Vikram TCR, CG Devbhog	500
	Finger Millet	Indira Ragi 1	20
	Wheat	CG Genhu1, CG Genhu 2	50
OILSEEDS			
	Linseed	RLC 133	10
PULSES			
	Black gram	Indira Urd pratham	20
	Green gram	MH 421	20
VEGETABLES			
	Coriander	CG Dhaniya 1	0.80
	Okra	Arka anamika	0.25
	Spinach	All green	0.25
	Fenugreek	RMT 305	0.20
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
	Mango	Dashheri	1000
	Mango	Amrapali	500
	Mango	Mallika	200
	Mango	Langra	1000
	Mango	Nandiraj	50
	Guava	L 49	3000
	Lemon	Seedless	2000
	Custard apple	Balanagar	25
SPICES			
	Elephant foot yam	Gajendra	10
	Turmeric	Roma/Narendra Haldi 1	10
VEGETABLES			
	Sweet potato	Indira Madhur	100000 cuttings
	Tomato		
FOREST SPECIES			
	Semialata plants	-	5000
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost	Esina fetida		10000
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			500 liter
2	Jivamrit			500 liter
3	Ghan jivamrit			500 liter
4	Nimastra			500 liter
5	Bramhastra			500 liter
6				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
	Calf	Gir/Sahiwal	4	
SHEEP AND GOAT				
	Goat	Graded Sirohi	10	
POULTRY	Chicks	Kadaknath	60000	
FISHERIES	Fish	Rohu, Katla, Mrigal		100
Others (Specify)	Quail chicks	Japanees	10000	
	Ducklings	WP/Khaki cambel	50	

Literature to be Developed/Published**KVK News Letter**

Date of start	Periodicity	Number of copies to be published
01.06.2008	Quarterly	500

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Video to be upload on YouTube	Millet processing, Success story	02
2			
3			

Success stories/Case studies identified for development as a case: 2 (no.)

Indicate the specific training need analysis tools/methodology followed for (Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Mainpur	Charama	25 km
2	Puswada	Kanker	13 km
3	Kapsi	Kanker	25 km
4	Bewarti	Kanker	8 km
5	Choriya	Narharpur	20 km

1. No. of farm families selected per village :

2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2019

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Mini soil lab	1	good and working
2	pH meter	1	good and working
3	EC meter	1	good and working
4	Kjeldal distillation unit	1	good and working
5	Flame photo meter	1	To be repaired

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	1210	6290	168	-
Water Samples	98	98	43	-
Total	1308	6388	211	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
District Administration	Financial and technical guidance
Zila panchayat	Financial and technical guidance
NABARD	Financial and technical guidance
NGOs	Technical guidance
FPO and SHGs	Technical guidance
Forest department	Technical guidance
Agriculture and allied departments	Technical guidance

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
ATMA	Technical guidance and monitoring
NFSM	Technical guidance and monitoring
BGRI	Technical guidance and monitoring
Millet mission	Technical guidance and monitoring
PKVY	Technical guidance and monitoring
RKVY	Technical guidance and monitoring
Jaivik/Prakritik kheti	Technical guidance and monitoring
MKVY	Technical guidance and monitoring
NGGB	Technical guidance and monitoring

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Accreditation	Yearly Nursery/Mother orchard accreditation

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
March	Demonstration of Drone technology	20 ha
January - December	Training and establishment of units under ARYA	200 youths
January - December	Training and seed production programme with farmers	1000 q
January - December	Training and Demonstration under Natural farming	150, 16 demonstration

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 240 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	MTU 1318, Vikram TCR, Devbhog, Indira Barani, MUT 1010, Shyamala, Durgeshwari, Rajeshwari, Maheshwari, Hybrids	Early, Medium and long duration varieties suitable for different land situation	100 sqm
Finger millet	Khairf	Indira Ragi 1, Indira Ragi 2		20 sqm
Rabi	Wheat	Ratan, GW-273, Arpa		30 sqm

	Lathyrus	Prateek, Mahatiwda		20 sqm
	Linseed	Kartika, RLC-92, RLC-32		30 sqm
	Field pea	Shubhra, Vikas		20 sqm
	Green gram	Pusa vishal, Hum 1		20 sqm

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Kadaknath Hatchery Unit	Chicks production unit	8000 egg capacity	50000 Chicks
Quail	Chicks production unit	3000 egg capacity	15000 Chicks
Dairy (Milk)	Gir and Sahiwal Breed	12 cows	9000 litre
Dairy (Calf)	Gir and Sahiwal Breed	12 cows	4 no.
Goat	Graded Sirohi	20 goat	10 kids
Poultry feed unit	Poultry feed unit used at KVK farm	1 t/hour	700 q
Mushroom production unit	Oyster mushroom	-	200 kg
Spawn production	Oyster mushroom	-	250 kg
Fish	Rahu, Katla	0.20 ha	2 q
Vermi compost	Vermi compost production	0.01 ha	500 q
Earth Worm (E. Fetida)	Worms production spp (E. Fetida)	0.01 ha	100 kg
Azola production unit	Used as feed at KVK farm	3 tanks	800 kg

ANNUAL ACTION PLAN 2024

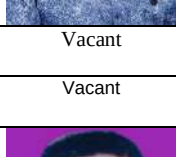
KVK Kawardha

Year of sanction: 2008

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. B. P. Tripathi		9826199312	kvk.kabirdham@igkv.ac.in

1.2 Staff Position on (31th Dec.2023)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant
2	Subject Matter Specialist	Dr. B.P.Tripathi	I/c Senior Scientist and Head	Plant Pathology	56100-177500 Level -12	06.09.2012	06.09.2012	9826199312	bp_tripathi2007@yahoo.co.in	
3	Subject Matter Specialist	Er. T. S. Sonwani	Subject Matter Specialist	F.M.P	56100-177500 Level -12	10.09.2012	10.09.2012	9893943109	tsingh_1983@yahoo.com	
4	Subject Matter Specialist	Sh. B. S. Parihar	Subject Matter Specialist	Agronomy	56100-177500 Level -12	18.09.2014	18.09.2014	8770372537	parihar.balbri ndsingh7@gmail.com	
5	Subject Matter Specialist	Dr. N. C. Banjara	Subject Matter Specialist	Horticulture	56100-177500 Level -12	08.10.2018	12.03.2024	8518868746	nanakbanjara14@gmail.com	
6	Subject Matter Specialist	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant
7	Subject Matter Specialist	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant
8	Programme Assistant	Smt. Swati Sharma	Programme Assistant	Entomology	35400-112400 Level -8	05.11.2014	05.11.2014	8839340760	sharmaswati2212@gmail.com	
9	Computer Programmer/ Programme Assistant	Mr. Yogesh Kumar Kaushik	Programme Assistant (Computer)	Information Technology	35400-112400 Level -8	12.07.2013	12.07.2013	9826660327	yogeshkumarkaus h15@gmail.com	
10	Farm Manager	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant
11	Assistant	Shri A. K. Khare	Asstt.Gr - I	Economics	28700-91300 Level -7	16.09.2009	11.08.2015	7987760012	ashokkumarkhare3@gmail.com	
12	Jr. Stenographer / Comp. Operator	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant
13	Driver	Shri Haran Ram Kaushik	Driver	Primary	25300-80500 Level -6	01.04.2013	01.04.2013	7748851885	-	

14	Driver	Shri Jagnandan Sahu (Contractual)	Driver	Graduation	14200/-	20.12.2021	20.12.2021	9754025976	-	
15	Supporting staff	Shri. Salik Ram Lodhi	Peon	Middle	19500-62000 Level 4	16.09.2008	02.01.2013	9109855505	-	
16	Supporting staff	Shri Shiv Kumar Lodhi	Watchman	Primary	19500-62000 Level 4	16.09.2008	16.09.2008	8878228420	-	

1.3 Total land with KVK (in ha): 19.68 (5.63 ha area Encroachment)

S. No.	Item	Area (ha)
1	Under Buildings	0.050
2	Under Demonstration Units	1.00
3	Under Crops	10.00
4	Orchard/Agro-forestry	2.00
5	Others (specify)	1.00
Total		14.05

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2008	290.00	550000.00	2008	290	complete
2	Farmers Hostel	Nil						
3	Staff Quarters (6)	Nil						
4	Demonstration Units (2)	MGNREGA	2018-19 To 2021-22	1197.00	6909000.00	2018-19	1197.00	complete
5	Fencing	RKVY	2012-13	285m	100000.00	2014-15	285m	Complete
			2012-13	-	962000.00	2012-13		Complete
6	Rain Water harvesting system	NIL						
7	Threshing floor	RKVY	2013-14	251	838000.00	2013-14	251	complete
8	Farm godown	ICAR	2014-15	235	250000.00	2014-15	235	complete

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2008	451015.00	200000.00	Poor condition
Motor Cycle 1	2010	43843.00	74400.00	Poor condition
Motor Cycle 2	2022	90360.00	5210.00	Good Condition
Bolero(Jeep)	2018	774890.00	112000.00	Good Condition
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Table	2009	13875.00	Good
Table	2009	4800.00	Good
Revolving Chair	.2009	6900.00	Good
Revolving Chair	2009	4740.00	Good
Steel office chair	2009	9440.00	Good
Steel Stool	2009	1680.00	Good
		5179.00	
UPS	2009	3409.00	Good
Computer Set	2009	39754.00	Good
Printer	2009	5264.00	Good
		1917.00	
Gas cylinder 19 kg	2010	3150.00	Good
Projector Screen	2011	12375.00	Good
LCD Projector	2011	62268.00	Good
Wooden chairs	2011	45675.00	Good
Wooden Table	2011	34000.00	Good
Wooden Computer Table	2011	14820.00	Good
Steel Almirah	2011	27690.00	Good
Steel Almirah	2011	9820.00	Good
Steel Book Cash	2011	15000.00	Good
		20580.00	
Conference table	2012	110700.00	Good

Office table	2012	6240.00	Good
Sofa set	2012	27290.00	Good
Center table	2012	3005.00	Good
Computer table	2012	14820.00 26720.00	Good
Fax Machine	2011	13982.00	Good
Computer Set	2011	32000.00	Good
Printer	2011	11606.00 2181.00	Good
Refrigerator	2011	15504.00	Good
Digital Camera	2011	9990.00	Good
Cooler	2011	8000.00	Good
Cooler	2011	6990.00	Good
Stabilizer	2011	6555.00	Good
UPS	2011	1785.00	Good
Power Protector	2011	997.00	Good
Photo copier Machine	2011	53014.00	Good
Computer Set	2012	79192.00	Good
Printer	2012	10106.00	Good
Printer	2012	5712.00 4751.00	Good
UPS	2012	3200.00	Good
HD TV (LED)	2012	39900.00	Good
AC	2012	29151.00	Good
Tractor	2009	451015.00	Good
Cultivator	2009	15078.00	Good
Jeep trolley	2009	35280.00	Good
Seed drill	2009	33128.00	Repairable
Tube well	2009	75352.00	Good
Irrigation System	2011	99095.00	Good
Kundam	2011	400.00	Good
Rapa	2011	840.00	Good
Darati	2011	210.00	Good
Khurpi	2011	120.00	Good
Khurpi	2011	135.00	Good
Mobile Seed Grader	2012	595080.00	Good
Chain link	2012	463080.00	Good
Straight type Angle	2012	498919.00	Good
Tube well	2013	66527.00	Good
Tube well	2013	70242.00	Good
Power sprayer cum duster	2013	5778.00	Good
Winnowing fan	2013	7875.00	Good
Chap cutter	2013	19740.00	Good
Leveller	2013	11550.00	Good
M. B. Plough	2013	20738.00	Good
Seed cum fertilizer drill	2013	40950.00	Good
Multi crop Thresher	2013	105000.00	Good
Power Reaper	2013	126200.00	Good
Tractor Trolley	2013	175812.00	Good
Electric Weight Machine	2013	13306.00	Good
Rotavator	2013	90276.00	Good
Pump set	2013	105972.00	Good

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	15.06.2024
2	

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1, Rainfed	Paddy – Soybean-
2	AES – 2, Rainfed upland	Pigeon pea – Soybean
3	AES – 3, Irrigated	Chickpea – Wheat
4	Irrigated	Sugarcane

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1, Chhattisgarh Plain Zone	
2	AES – 2, Vertisol (Kanhra-clayey)	low - lying deep bluish black soil with high moisture retention capacity. It is well suited for rabi crops, particularly wheat
3	AES – 3, Incept sol (Matasi-Sandyloam)	This is a yellow sandy soil, with an admixture of clay. It has limited moisture retention capacity. Though used for paddy
4	AES – 4, Alfisols (Dorsa-clayloam)	This type of soil is intermediate in terms of soil moisture retention between kanhra and matasi. This is best described as loamy, and is a colour between brown and yellow.
5	AES – 5, Entisol (Bhata-gravelly)	This soil is a coarse-textured, red sandy-gravelly soil, found on upland tops. It is deficient in minerals and other productivity enhancing nutrients
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district
AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	444.704
Forest	189.459
Waste Land	-
Other than cultivated area	19.517
Cultivable waste and alkaline land	
Pastures	39.039
Bushes	
Current Fallow	6.177
Other Fallow	5.169
Agricultural Land	166.26
Area Sown	69.70%
Kharif	1.88 lac ha
Rabi	1.86lac ha
Zaid	
Cropping Intensity	202 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	27900
2	Well	1780
3	Tube well	91955
4	Ponds	1820
5	Others	8000

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Vertisols (Kanhar-clayey)	Low-lying deep bluish black soil with high moisture retention capacity. It is well suited for rabi crops, particularly wheat	103.34
2	Inceptisol (Matasi-Sandy loam)	This is a yellow sandy soil, with an admixture of clay. It has limited moisture retention capacity. Though used for paddy	27.62
3	Alfisols (Dorsa-clay loam)	This type of soil is intermediate in terms of soil moisture retention between kanhar and matasi. This is best described as loamy, and is a colour between brown and yellow.	23.13
4	Entisol (Bhata-gravelly)	This soil is a coarse-textured, red sandy-gravelly soil, found on upland tops. It is deficient in minerals and other productivity enhancing nutrients	23.06
5	Others (Sandy)		16.35
	Total		198.50

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	83730	289873	3462
2	Soybean	19480	30934	1588
3	Sesame	3100	1389	448
4	Niger	1000	483	483
5	Sunflower	0000	0000	000
6	Groundnut	6510	11998	1843
7	Pigeon pea	25100	41867	1668

8	Moong	2500	1188	475
9	Urd	7410	5965	805
10	Sorghum	40	48	1188
11	Maize	9100	29484	3240
12	Kodo(Rice grass)	15300	15453	1010
13	Kutki (hellebore	1500	1230	820
14	Ragi (Finger millets)	750	589	785
15	Kulthi & Others	200	122	608
16	Wheat	16900	3803	2250
17	Maize	1700	425	2500
18	Ragi	2400	222	925
19	Barley& Others	60	00	00
20	Chickpea	93500	9444	1010
21	Sugarcane	32.400	255895	78980
22	pea	2400	198	827
23	Lentil	6200	349	563
24	Moong	700	33	468
25	Urd	900	39	429
26	Lathyrus	11000	611	555
27	Mustard	8900	454	510
28	Linseed	2800	0.99	352
29	Vegetables	9.600	225.60	23500

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023		30	11
Feb. 2023		37	17
Mar. 2023		39	20
Apr. 2023		44	29
May. 2023		46	25
Jun. 2023	162.8	46	27
July. 2023	208.8	38	29
Aug. 2023	197.4	35	27
Sept. 2023	349.9	37	26
Oct. 2023		33	20
Nov. 2023		31	15
Dec. 2023			

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	358678	 MT.	 kg
Buffalo	40090	 MT.	 kg
Sheep			
Crossbred/ Indigenous	829	 MT wool	 kg
Goats	77181	 MT	 kg
Pigs Crossbred/ Indigenous	4812	---	---
Rabbits	174		
Poultry			
Hens	168	 Lakh eggs	 eggs/ bird/yr
Turkey and others	19		
Category	Area	Production	Productivity
Fish	7194 (ha)	19500 Q/ month	 Q/ ha.

Details of Operational area / Villages (2024)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Kawardha	Kawardha	Bendarchi	OFT, FLD,	Vegetables disease	Varietal Evaluation
2	S.Lohara	S.Lohara	Khadauda kala	CFLDs, Training	Low productivity	IDM, IPM, ICM
3	S.Lohara	S.Lohara	Saliha	CFLDS, Training	Low productivity	IDM, IPM, ICM
4	Pandariya	Pandariya	Pandatari	OFT, FLD, CFLDs	Low productivity	IDM, IPM, ICM
5	Pandariya	Pandariya	Mahli	OFT, FLD, Training	Low productivity	IDM, IPM, ICM

Priority / Thrust areas

S. No.	Particulars
1.	➤ Varietal improvement in major crop like Soybean, Chickpea, urd, moong.
2.	➤ Introduction of sugarcane varieties resistant to red rot, root borer and shoot borer
3.	➤ Mechanization in sugarcane crops for harvesting and leaf scraping is required to minimize the drudgery problem.
4.	➤ Ensuring production and availability of Trichoderma viride locally
5.	➤ Need to improve mechanization in horticultural crops
6.	➤ Value addition and processing of millets is required.
17.	➤ Value addition of sugarcane and soybean byproduct is required to increase the income of farmers.

TECHNICAL PROGRAMME
A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
17	81	FLD- 13, CFLD- 3	FLD-160, CFLD- 150

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
98	3703	312	5924

Seed Production (Qtl.)	Planting material (Nos.)
1150	25000

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Weed Management	Rice	Heavy Yield Loss due to Weed Infestation,	Assessment of Chemical weed management in rice		2		2	Weedicide
2	Precision agriculture	Rice	Low yield of Rice due to Rice Sheath blight	Assessment of Integrated diseases management of Sheath blight of Rice		2		2	Fungicide
3	Precision agriculture	Rice	Low yield of Rice due to Sheath rot	Assessment of Integrated diseases management of Sheath rot of Rice		2		2	IDM inputs
4	Varietal Assessment	Soybean	Use of low yielding variety	Assessment of High yielding variety of Soybean		2		2	Seed
5	Precision agriculture	Pigeon pea	Low yield of Pigeon pea due to incidence of wilt	Assessment of <i>Trichoderma mutant culture</i> for management of Pigeon pea wilt		2		2	<i>Trichoderma culture</i>
6	Farm mechanization	Pulses	Poor quality and low pulse recovery due to traditional method of dal making.	Assessment of dehulling process of Mini Dal Mill		2		2	<i>Mini dal mill</i>
7	Precision agriculture	Banana	Heavy crop loss due to Sigatoka disease in Banana	Assessment of Integrated Disease Management of Sigatoka disease of Banana		2		2	Fungicide
8	Precision agriculture	Tomato	Heavy crop loss due to Blight disease in Tomato.	Assessment of Integrated disease management in early blight of tomato		2		2	Fungicide
9	Weed management	Chickpea	Heavy Yield Loss due to Weed Infestation	Assessment of chemical weed management in Chickpea		2		2	Weedicide
10	farm mechanization	wheat	Low yield Due to traditional method of sowing	Assessment of Happy seeder for sowing of wheat		2		2	-
11	Farm mechanization	Chickpea	Low yield Due to traditional method of sowing Because due to lack aware of moisture condition in the field causes less germinations of seeds	Assessment of Happy seeder for sowing of Chickpea		2		2	-
12	Farm mechanization	Sugarcane	Farmers generally work for leaves-removing proceeds by manually is more time and labour intensive	Assessment of Sugarcane leaf scraper		2		2	Sugarcane leaf scraper
13	Integrated Crop Management	Sugarcane + onion	Farmers only take sole sugarcane	Assessment of sugarcane Onion Intercropping		2		2	seed
14	Varietal evaluation	Chilli	Low yield due to attack of thrips and anthracnose	Assessment of High yielding variety of Chilli		2		2	Chilli
15	Varietal evaluation	Onion	Area of soybean production decreases due to low yield under Rainfed upland farming situation in the district.	Assessment of Onion cultivation under upland farming situation during Kharif season		2		2	Onion

16	Varietal evaluation	Tomato	Lack of high yielding potential variety with long distance transportation capacity, free from tomato leaf curl virus.	Assessment of High Yielding varieties of Tomato		2		2	Tomato
17	Nutrient management	Vegetables	Low productivity due to low fertilizer use efficiency	Assessment of foliar spray of water soluble fertilizer in Cauliflower		2		2	Vegetables

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Weed Management	1									
Precision agriculture					1					
Precision agriculture				1						
Varietal Assessment		1	1							
Precision agriculture	1		1			1				
Precision agriculture	1									
Farm mechanization	1									
Farm mechanization			1							
Farm mechanization			1	1						
Integrated Crop Management										
Nutrient management					1					
Varietal evaluation					1					
Varietal evaluation					1					
Varietal evaluation					1					
TOTAL	4	1	4	2	5	1				

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise		
Title of on farm trial		
Problem diagnosed		
Farmers' Practices		
Details of technologies selected for assessment	T ₁	
	T ₂	
	T ₃	Rows can be added if necessary

Source of technology	
Plot size	
No. of farmers	
Total cost	
Critical input	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	

OFT -2

1	Enterprise	
2	Title of on-farm trial	
3	Problem diagnosed	
4	Farming situation	
5	Production system and thematic area	
6	Farmers' practices	
7	Details of technologies selected for assessment/refinement Treatments	T ₁ T ₂ (Rows can be added if necessary)
8	Source of technology	
9	No. of animals	
10	No. of farmers	
11	Critical input	
12	Cost of input	
13	Total cost	
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT:

Name of Discipline	(OFT-01) Agronomy
Title of on-farm trial:	Assessment of Chemical weed management in rice
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Heavy Yield Loss due to Weed Infestation, Labour Problem
Thematic area:	Weed Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement: 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	
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
T3- Recommended Practice-	
Date of sowing:	15.07.2024
Date of harvesting:	15.11.2024
Source of technology:	IGKV ,Raipur
Characteristics of technology:	6-8 days after transplanting and thin layer of water for 2-3 days

Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-02) Agronomy
Title of on-farm trial:	Assessment of High yielding variety of Soybean
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Use of low yielding variety
Thematic area:	Varietal Assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Soybean (JS-93-05,JS-95-60)
T2 –Recommended Practice-	Improved high yielding variety JS-20-98 of Soybean
T3- Recommended Practice-	
Date of sowing:	10.07.2024
Date of harvesting:	20.11.2024
Source of technology:	JNKV
Characteristics of technology:	It possesses high yielding potential under adverse and normal situations both.
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-03) Plant Protection
Title of on-farm trial:	Assessment of Integrated diseases management of Sheath blight of Rice
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Rice due to Rice Sheath blight
Thematic area:	Precision agriculture
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of not recommended fungicide for the control of disease
T2 –Recommended Practice-	1. Seed treatment with <i>Pseudomonas fluorescens</i> @ of10g/kg of seed followed by seedling dip @ of 2.5 kg or products/ha dissolved in 100 litres and dipping for 30 minutes. 2.Soil application of <i>P.fluorescens</i> @ of 2.5 kg/ha after 30 days of transplanting (<i>P.fluorescens</i> should be mixed with 50 kg of FYM/Sand and then applied
T3- Recommended Practice-	Propiconazole (1ml/lit)
Date of sowing:	10.07.2024
Date of harvesting:	20.11.2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Is ideal for effective and economic control of sheath blight and associated yield losses.

Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-04) Plant Protection
Title of on-farm trial:	Assessment of Integrated diseases management of Sheath rot of Rice
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Rice due to Sheath rot
Thematic area:	Precision agriculture
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of not recommended fungicide for the control of disease
T2 –Recommended Practice-	1.Seed treatment with <i>Pseudomonas fluorescens</i> @ of10g/kg of seed followed by seedling dip @ of 2.5 kg or products/ha dissolved in 100 litres and dipping for 30 minutes. 2.Soil application of <i>P.fluorescens</i> @ of 2.5 kg/ha after 30 days of transplanting (<i>P.fluorescens</i> should be mixed with 50 kg of FYM/Sand and then applied.
T3- Recommended Practice-	Propiconazole (1ml/lit)
Date of sowing:	10.07.2024
Date of harvesting:	20.11.2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-05) Plant Protection
Title of on-farm trial:	Assessment of <i>Trichoderma mutant culture</i> for management of Pigeon pea wilt
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Pigeon pea due to incidence of wilt diseases of Pigeon pea
Thematic area:	Precision agriculture
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of not recommended fungicide for the control of disease
T2 –Recommended Practice-	Seed treatment as well as soil treatment with <i>Trichoderma mutant culture</i>
T3- Recommended Practice-	
Date of sowing:	10.07.2024
Date of harvesting:	20.11.2024
Source of technology:	BARC, Mumbai
Characteristics of technology:	
Name of Crop/Enterprises:	Pigeon pea
Recommendations for Farmers	

Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-06) Plant Protection
Title of on-farm trial:	Assessment of dehulling process of Mini Dal Mill
Year/Season:	2024/Kharif
Farming situation:	NA
Problem diagnosis:	Poor quality and low pulse recovery due to traditional method of dal making.
Thematic area:	Farm mechanization
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Manual method
T2 –Recommended Practice-	Performance and Demonstration of mini dal mill
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IIPR, KANPUR
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-07) Agri Engineering
Title of on-farm trial:	Assessment of Happy seeder for sowing of wheat
Year/Season:	2024-25/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield Due to traditional method of sowing Because due to lack aware of moisture condition in the field causes less germinations of seeds
Thematic area:	Farm Mechanization
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing of chickpea through Seed cum fertilizer drill
T2 –Recommended Practice-	Sowing of wheat through happy seeder
T3- Recommended Practice-	
Date of sowing:	15.11.2024
Date of harvesting:	10.03.2025
Source of technology:	IGKV, Raipur
Characteristics of technology:	The Happy Seeder features a front-mounted Rotavator unit that compacts paddy stubble into the soil and prepares field beds
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-08) Agronomy
Title of on-farm trial:	Assessment of chemical weed management in Chickpea
Year/Season:	2024-25/Rabi
Farming situation:	Rainfed
Problem diagnosis:	Heavy Yield Loss due to Weed Infestation, Labour Problem Major Weed (Medic ago denticulate)
Thematic area:	Varietal Assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of herbicides, delayed manual weeding due to labour problem
T2 –Recommended Practice-	Use of Topramezone33.6% SC @20.6g/ha PoE
T3- Recommended Practice-	
Date of sowing:	05.11.2024
Date of harvesting:	10.03.2025
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-09) Agronomy
Title of on-farm trial:	Assessment of sugarcane Onion Intercropping
Year/Season:	2024-25/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Farmers only take sole sugarcane
Thematic area:	Integrated Crop Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sole Sugarcane
T2 –Recommended Practice-	Sugarcane: Onion (1:3) (120cmx60)
T3- Recommended Practice-	
Date of sowing:	15.12.2024
Date of harvesting:	20.03.2025
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Onion Sugarcane
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-10) Plant Protection
Title of on-farm trial:	Assessment of Integrated Disease Management of Sigatoka disease of Banana
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Heavy crop loss due to Sigatoka disease in Banana
Thematic area:	Precision agriculture
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of not recommended fungicide for the control of disease
T2 –Recommended Practice-	Metiram 55% + Pyraclostrobin 5% WG@ 2.0 gm/litre of water/Cultural practices/maintain proper spacing /avoid water logging /remove affected leaf
T3- Recommended Practice-	
Date of sowing:	10.07.2024
Date of harvesting:	20.11.2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Banana
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-11) Plant Protection
Title of on-farm trial:	Assessment of Integrated disease management in early blight of tomato
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Heavy crop loss due to Blight disease in Tomato.
Thematic area:	Precision agriculture
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Non judicious use of Fungicide
T2 –Recommended Practice-	Use of Tebuconazole @ 1.0 gm/litre of water/Cultural practices/Tolerant Variety /Staking /Seed treatment /weed control Proper drainage and use of biological agent
T3- Recommended Practice-	
Date of sowing:	10.07.2024
Date of harvesting:	20.11.2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-12) Agri Engineering
Title of on-farm trial:	Assessment of Happy seeder for sowing of Chickpea
Year/Season:	2024-25/Rabi

Farming situation:	Irrigated
Problem diagnosis:	Low yield Due to traditional method of sowing Because due to lack aware of moisture condition in the field causes less germinations of seeds
Thematic area:	Chickpea Production technology through farm mechanization
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing of chickpea through Seed cum fertilizer drill
T2 –Recommended Practice-	Sowing of Chickpea through happy seeder
T3- Recommended Practice-	
Date of sowing:	15.11.2024
Date of harvesting:	10.03.2025
Source of technology:	IGKV, Raipur
Characteristics of technology:	The Happy Seeder features a front-mounted Rotavator unit that compacts paddy stubble into the soil and prepares field beds
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-13) Agri Engineering
Title of on-farm trial:	Assessment of Sugarcane leaf scraper
Year/Season:	2024-25/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Farmers generally work for leaves-removing proceeds by manually is more time and labour intensive work. in this methods not fully leaves-removed by manually could carry some soil, sand and mud, thus damaging the downstream sugarcane process machine and reduced sugar yield
Thematic area:	Farm mechanization
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Manually removing leaf of sugarcane by sickles
T2 –Recommended Practice-	Use of sugarcane Leaf scrapping machine
T3- Recommended Practice-	
Date of sowing:	15.11.2024
Date of harvesting:	10.11.2025
Source of technology:	IGKV, Raipur
Characteristics of technology:	Improved Technique for removing leaf of sugarcane without any damages of
Name of Crop/Enterprises:	Sugarcane
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-14) Horticulture
Title of on-farm trial:	Assessment of High yielding variety of Chilli
Year/Season:	2024/Kharif
Farming situation:	Midland Irrigated
Problem diagnosis:	Low yield due to attack of thrips and anthracnose

Thematic area:	Varietal evaluation
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Hybrids-NS 1701
T2 –Recommended Practice-	Hybrid- Kashi Ratna
T3- Recommended Practice-	
Date of sowing:	15.06.2024
Date of harvesting:	10.10.2024
Source of technology:	IIVR, Varanasi
Characteristics of technology:	
Name of Crop/Enterprises:	Chilli
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-15) Horticulture
Title of on-farm trial:	Assessment of Onion cultivation under upland farming situation during Kharif season
Year/Season:	2024/Kharif
Farming situation:	Upland Rainfed
Problem diagnosis:	Area of soybean production decreases due to low yield under Rainfed upland farming situation in the district.
Thematic area:	Varietal evaluation
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cultivation of Soybean
T2 –Recommended Practice-	Onion cultivation var. Bhima dark red with recommended POP
T3- Recommended Practice-	
Date of sowing:	15.06.2024
Date of harvesting:	10.11.2024
Source of technology:	DOGR, Pune
Characteristics of technology:	
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-16) Horticulture
Title of on-farm trial:	Assessment of High Yielding varieties of Tomato
Year/Season:	2024/Rabi
Farming situation:	Upland Irrigated
Problem diagnosis:	Lack of high yielding potential variety with long distance transportation capacity, free from tomato leaf curl virus.
Thematic area:	Varietal evaluation
No of trials:	04

No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Hybrids- Abhilash
T2 –Recommended Practice-	OP variety- Kashi Adarsh
T3- Recommended Practice-	
Date of sowing:	15.11.2024
Date of harvesting:	10.02.2025
Source of technology:	IIVR, Varanasi
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	(OFT-17) Horticulture
Title of on-farm trial:	Assessment of foliar spray of water soluble fertilizer in Cauliflower
Year/Season:	2024-25/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low productivity due to low fertilizer use efficiency
Thematic area:	Nutrient management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalanced fertilizer application
T2 –Recommended Practice-	Nutrient management STV/SHC based + 0.05% foliar spray of NPK (19:19:19) water soluble fertilizer.
T3- Recommended Practice-	
Date of sowing:	20.10.2024
Date of harvesting:	15.12.2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Vegetables
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

Title	
Season & Year	
Problem identified	
Thematic Area	
Farming situation	

Name of Technology Intervention under study	
Farmers Practice	
No. of replication (Farmers)	

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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 Dept. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Rice	Integrated crop management	Demonstration on Crop Management Practices in Line Sown Direct Seeded Rice	Seed, Herbicide	Kharif 2024	5.0	12	No. of effective tillers/m ² , Yield data, Net return, B:C ratio
2	Soybean	Integrated crop management	Demonstration on High Yielding Variety of Soybean RSC-10-46	Seeds	Kharif-2024	5.00	12	No. of pods/plant, Yield, Net return, B:C ratio
3	Soybean	Precision agriculture	Demonstration of Integrated disease management of Soybean	Trichoderma and fungicide	Kharif-2024	5.00	12	Disease Incidence (%) , yield, B:C ratio
4	Chickpea	Integrated crop management	Demonstration on High Yielding Variety of Chickpea (CG 2)	Seeds	Rabi-2024-25	5.00	12	No. of pods/plant, Yield, Net return, B:C ratio
5	Chickpea	Precision agriculture	Demonstration of <i>Trichoderma viride</i> for control of chickpea collar rot	Trichoderma	Rabi-2024-25	5.00	12	No. of plants infested/m ² no. of Pod/plant, yield, B:C ratio
6	Wheat	Integrated crop management	Demonstration on High Yielding Variety of Wheat (Kanishka)	Seeds	Rabi-2024-25	5.00	12	No. of pods/plant, Yield, Net return, B:C ratio
7	Brinjal	Varietal Evaluation	Demonstration of Chhattisgarh Safed baigan-1	Seed	Rabi 2024-25	1.0	12	Average yield/ha, B:C Ratio
8	Sem	Varietal evaluation	Demonstration of Indira Sem-2	Seed	Kharif - 2024	1.0	12	Average yield/ha, B:C Ratio
9	Colocasia	Varietal evaluation	Demonstration of Indira Arbi-1	Tuber	Rabi - 2024-25	1.0	12	Average yield/ha, B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	November and February	1000
2	Farmers Training	50	June to March	500
3	Media coverage	45	June to March	-
4	Training for extension functionaries	04	June and November	100

Details of FLD on Enterprises Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Inclined Plate Planter	Rice	Kharif 2024	13	5.00	Machine for Demonstration	Field Capacity, Yield, Net returns, B:C ratio	Field Capacity, Yield, Net returns, B:C ratio	Field Capacity, Yield, Net returns, B:C ratio

Demonstration on Raised bed planter for pigeon pea cultivation	Pigeon pea	Kharif 2024	13	5.0	Machine for Demonstration	Field Capacity, Yield, Net returns, B:C ratio	Field Capacity, Yield, Net returns, B:C ratio	Field Capacity, Yield, Net returns, B:C ratio
Self-Propelled Vertical Conveyor Reaper.	Rice	Kharif 2024	13	5.00	Machine for Demonstration	Field Capacity, Yield, Net returns, B:C ratio	Field Capacity, Yield, Net returns, B:C ratio	Field Capacity, Yield, Net returns, B:C ratio
Self-Propelled Vertical Conveyor Reaper.	Wheat	Rabi 2024-25	13	5.0	Machine for Demonstration	Field Capacity, Yield, Net returns, B:C ratio	Field Capacity, Yield, Net returns, B:C ratio	Field Capacity, Yield, Net returns, B:C ratio

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	Crop production	BBF,Raised Bed Planting, Line Sowing	Seed, PSB, Rhizobium Culture	Kharif 2024	20	50	No. of pods/plant, Yield, Net return, B:C ratio
2	Pigeon pea	Crop production	Raised Bed Planting, Line Sowing	Seed, Trichoderma, PSB, Rhizobium Culture	Kharif 2024	20	50	No. of pods/plant, Yield, Net return, B:C ratio
3	Chickpea	Crop production	BBF, Raised Bed Planting, Line Sowing	Seed, Trichoderma, PSB, Rhizobium Culture	Rabi-2024-25	20	50	No. of pods/plant, Yield, Net return, B:C ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	03	October to march	500
2	Farmers Training	10	October to march	100
3	Media coverage	13	October to march	100
4	Training for extension functionaries	02	October to march	50

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	01	01							
Resource Conservation Technologies	01	01							
Integrated Farming	04	01							
Water management	02	01							
Seed production	04	01							
Integrated Crop Management	04	01							
Total	16	6							
II Horticulture									
a) Vegetable & fruit Crops	05	01							
Total	05	01							
b) Fruits									
Management of young plants/orchards	03	01							
Total	03	01							
c) Ornamental Plants	02	01							
Total	02	01							
d) Plantation crops	04	01							
Total	04	01							
e) Tuber crops	03	01							
Total	03	01							
f) Spices									
Production and Management technology	01	01							
Total	01	01							
g) Medicinal and Aromatic Plants									
Production and management technology	01	1							
Total	1	1							
Grand total (Horticulture)	19	19							
III Soil Health and Fertility Management									
Soil fertility management	2	2							
Soil and Water Conservation	2	1							
Integrated Nutrient Management	2	2							
Production and use of organic	2	2							

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
inputs									
Management of Problematic soils	1	1							
Micro nutrient deficiency in crops	1	1							
Nutrient Use Efficiency	1	1							
Soil and Water Testing	2	2							
Total	13	12							
IV Livestock Production and Management									
Dairy Management	2	1							
Poultry Management	2	1							
Disease Management									
Feed management	2	1							
Production of quality animal products	2	1							
Total	8	4							
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies									
Women and child care									
Total									
VI Agril. Engineering									
Primary Field	3	3							

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Operation methods									
Sowing Methods	2	2							
Total	5	5							
VII Plant Protection									
Integrated Pest Management	2	2							
Integrated Disease Management	2	2							
Bio-control of pests and diseases	2	2							
Production of bio control agents and bio pesticides	2	2							
Total	8	8							
VIII Fisheries									
Integrated fish farming	02	01							
Total	02	01							
IX Production of Inputs at site									
Vermi-compost production	5	1							
Organic manures production	5	1							
Total	10	2							
X Capacity Building and Group Dynamics									
Leadership development	1	1							
Group dynamics	2	2							
Formation and Management of SHGs	2	1							
Mobilization of social capital	4	1							
Entrepreneurial development of farmers/youths	2	1							
WTO and IPR issues	1	1							
Total	12	7							
XI Agro-forestry									
Total									
XII Others (Pl. Specify)	3	02							
Grand Total									
(B) RURAL YOUTH									
Mushroom	7	1							

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Production									
Bio Control Agent	1	1							
Seed production	6	1							
Planting material production	5	1							
Vermi-culture	2	1							
Value addition	3	1							
Sheep and goat rearing	1	1							
Para extension workers	1	1							
TOTAL	26	8							
(C) Extension Personnel									
Productivity enhancement in field crops	5	1							
Integrated Pest Management	3	1							
Integrated Nutrient management	2	1							
Protected cultivation technology	2	1							
Group Dynamics and farmers organization	2	1							
Capacity building for ICT application									
Livestock feed and fodder production	1	1							
Production and use of organic inputs	2	1							
Gender mainstreaming through SHGs	5	1							
Any other (Pl. Specify)	5	1							
TOTAL	27	9							

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	5	1							
Resource Conservation Technologies	3	1							
Cropping Systems	3	1							
Crop Diversification	3	1							
Integrated Farming	2	1							
Water management	2	1							
Seed production	3	1							
Nursery management	3	1							
Integrated Crop Management	4	1							
Fodder production	1	1							
Production of organic inputs	2	1							
Total	31	11							
II Horticulture									
a) Vegetable Crops									
Nursery raising	02	1							
Export potential vegetables	02	1							
Protective cultivation (Green Houses, Shade Net etc.)	03	1							
b) Fruits									
Cultivation of Fruit	03	1							
Management of young plants/orchards	02	1							
Export potential of ornamental plants	02	1							
Propagation techniques of Ornamental Plants	03	1							
d) Plantation crops	02	01							
e) Tuber crops	03	02							
f) Spices	03	01							
g) Medicinal and Aromatic Plants	3	1							
III Soil Health and Fertility Management									
Soil fertility management	1	1							
Soil and Water Conservation	1	1							
Integrated Nutrient Management	1	1							

Production and use of organic inputs	1	1							
Management of Problematic soils	1	1							
Micro nutrient deficiency in crops	1	1							
Nutrient Use Efficiency	1	1							
Soil and Water Testing	2	1							
IV Livestock Production and Management									
Dairy Management	1	1							
Poultry Management	1	1							
Disease Management	1	1							
Feed management	1	1							
Production of quality animal products	1	1							
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies									
Rural Crafts									
Women and child care									
Total									
VI Agril. Engineering									
Weeding tools	2	1							
Different type of Spraying method	2	1							
Harvesting Implements	2	1							
Safety Thresher operations in fields	2	1							
VII Plant Protection									
Integrated Pest	2	1							

Management									
Integrated Disease Management	2	1							
Bio-control of pests and diseases	2	1							
Production of bio control agents and bio pesticides	2	1							
VIII Fisheries	2	1							
IX Production of Inputs at site									
X Capacity Building and Group Dynamics	1	1							
Leadership development	1	1							
Group dynamics									
Formation and Management of SHGs	4	1							
Mobilization of social capital	1	1							
Entrepreneurial development of farmers/youths	1	1							
WTO and IPR issues									
XI Agro-forestry									
XII Others (Pl. Specify)	01	01							
TOTAL	67	38							
(B) RURAL YOUTH									
Production of organic inputs	4	1							
Sheep and goat rearing	1	1							
TOTAL	05	02							
(C) Extension Personnel	02	01	35	6	41	8	9	17	58
TOTAL	02	01	35	6	41	8	9	17	58

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April 2024	FW	Commercial fruit production	01							
Jan to Dec 2024	FW	Integrated farming	01							
June 2024 and Oct 2024	FW	Seed production	01							
June 2024 and Oct 2024	FW	Production of organic inputs	01							
Jan to Dec 2024	FW	Planting material production	01							
Jan to Dec 2024	FW	Vermi culture	01							
Agril.Engg										
June 2024	FW	Sowing Methods	01							
july to Aug.2024	FW	Intercultural opertations	01							
Oct 2024	FW	Suitable Spraying technology	01							
Nov2024 and dec.2024	FW	Harvesting by Improved Technique	01							
Oct to dec.2024	FW	Threshing methods	01							
Livestock production										
June 2024	FW	Dairy Management	01							
Nov2024 and dec.2024	FW	Poultry Management	01							
july to Aug.2024	FW	Disease Management	01							
Home Science										
Plant Protection										
July 2024	FW	Integrated disease management of Rice	01							
Sep 2024	FW	Integrated disease management of Pigeon pea	01							
Sep 2024	FW	Integrated	01							

		disease management of Soybean								
Jan 2024 and Dec 2024	FW	Integrated disease management of Sugarcane	01							
Oct to Feb 2024	FW	Integrated disease management of Chickpea	01							
Oct to Feb 2024	FW	Integrated disease management of Vegetables	01							
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April 2024	FW	Commercial fruit production	01							
June 2024 and Oct 2024	FW	Seed production	01							
June 2024 and Oct 2024	FW	Production of organic inputs	01							
Jan to Dec 2024	FW	Vermi culture	01							
Agril. Engg.										
June 2024	FW	Sowing Methods	01							
July to Aug.2024	FW	Intercultural operations	01							
Oct 2024	FW	Suitable Spraying technology	01							
Nov2024 and dec.2024	FW	Harvesting by Improved Technique	01							
Oct to dec.2024	FW	Threshing methods	01							
	FW	Rearing of beekeeping	01							
Livestock production										
April 2024	FW	Dairy Management								
June 2024 and Oct	FW	Poultry Management								

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
2024										
Jan to Dec 2024	FW	Disease Management								
Home Science										
Plant Protection										
July 2024	FW	Integrated disease management of Rice	01							
Sep 2024	FW	Integrated disease management of Pigeon pea	01							
Sep 2024	FW	Integrated disease management of Soybean	01							
Jan 2024 and Dec 2024	FW	Integrated disease management of Sugarcane	01							
Oct to Feb 2024	FW	Integrated disease management of Chickpea	01							
Oct to Feb 2024	FW	Integrated disease management of Vegetables	01							
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
April 2024	RY	Integrated farming	01	01						
Nov 2024	RY	Seed production	01	01						
June 2024	RY	Production of organic inputs	01	01						
Dec 2024	RY	Planting material production	01	01						
Oct 2024	RY	Vermi culture	01	01						

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Aug 2024	IS	Crop Production	1							
Aug 2024	IS	Pest Management in Cereal crop	1							
July 2024	IS	Insect and pest management of Soybean, Linseed and Mustard	1							
Horticulture										
Jan to Dec 2024	IS	Gender mainstreaming through SHGs	1							
Jan to Dec 2024	IS	Formation and Management of SHGs	1							
Jan to Dec 2024	IS	Women and Child care	1							
Jan to Dec 2024	IS	Low cost and nutrient efficient diet designing	1							
Livestock production										
Jan to Dec 2024	IS	Management in farm animals	1							
Jan to Dec 2024	IS	Livestock feed and fodder production	1							
Home Science										
Plant Protection										
Jan to Dec 2024	IS	Disease and insect management of Chickpea, Pigeon pea and Urd Moong	2	2						
Jan to Dec 2024	IS	Disease management of Rice , Wheat and Sugarcane	2	2						
Dec 2024	IS	Disease and insect management	2	1						

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		of Tomato, Brinjal ,Chilli and Cauliflower								
Agriculture Extension (Capacity Building and Group Dynamics)										
July 2024	IS	Group Dynamics and farmers organization	1	1						
Jan to Dec 2024	IS	Aware of Crop Doctor Apps and its Uses	1	1						
Soil Science										
Jan to Dec 2024	IS	Fodder & Vermi Compost Production Technology under NGGB Scheme on	1	1						
Jan to Dec 2024	IS	Care and maintenance of farm machinery and implements	1	1						

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration n	Client PF/ RY/ EF	No. of courses	No. of participants							Sponsor ing agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Nursery Management	Crop production and management	Increasing production and productivity of crops	1	FW	1							
2	Seed Production	Crop production and management	Increasing production and productivity of crops	1	FW	1							
3	Integrated crop management	Crop production and management	Increasing production and productivity of crops	1	FW	1							
4	Production of organic inputs	Crop production and management	Increasing production and productivity of crops	1	FW	1							

5	Seed Production	Crop production and management	Increasing production and productivity of crops	1	FW	1							
6	Vegetable production technology	Crop production and management	Commercial production of vegetables	1	FW	1							
7	Vegetable production technology	Crop production and management	Production and value addition	1	FW	1							
8	Micro irrigation systems	Crop production and management	Fruit Plants	1	FW	1							
9	Production and use of Ornamental plants	Crop production and management	Ornamental plants	1	FW	1							
10	Methods used for Value addition of spices crop	Crop production and management	Spices crops	1	FW	1							
11	Soil health and fertility management	Crop production and management	Soil health and fertility management	1	FW	1							
12	Use of net shed house for protective cultivation	Crop production and management	Methods of protective cultivation	1	FW	1							
13	Value addition of Jaggery	Crop production and management	Value addition of Jaggery	1	FW	1							
14	Integrated Pest Management	Crop production and management	Integrated Pest Management	1	FW	1							
15	Production of bio control agents and bio pesticides	Crop production and management	Production of bio control agents and bio pesticides	1	FW	1							
16	Insect Pest of Sugarcane	Crop production and management	Insect Pest Management of Sugarcane	1	FW	1							
17	Diseases of Sugarcane	Crop production and management	Diseases management of Sugarcane	1	FW	1							
18	Diseases of Vegetable crop	Crop production and management	Diseases Management of Vegetable crop	1	FW	1							
19	Disease and Insect of Pulse crop	Crop production and management	Disease and Insect pest management of Pulse crop	1	FW	1							
20	Diseases of Oilseed crop	Crop production and management	Diseases Management of Oilseed crops	1	FW	1							

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10									
Kisan Mela	03									
Kisan Ghosthi	20									
Exhibition	04									
Film Show	65									
Method Demonstrations	17									
Farmers Seminar	05									
Workshop	13									
Group meetings	12									
Lectures delivered as resource persons	06									
Newspaper coverage	60									
Radio talks	05									
TV talks	06									
Popular articles	04									
Extension Literature	06									
Advisory Services	42									
Scientific visit to farmers field	56									
Farmers visit to KVK	102									
Diagnostic visits	52									
Exposure visits	05									
Ex-trainees Sammelan	12									
Soil health Camp	02									
Animal Health Camp	02									
Agri mobile clinic	22									
Soil test campaigns	02									
Farm Science Club Conveners meet	04									
Self Help Group Conveners meetings	06									
Mahila Mandals Conveners meetings	08									
Celebration of important days (specify)	14									
Others (pl. specify)	10									
Total										

Target for Production and supply of Technological products
SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	C.G. Amber	30.00
OILSEEDS	Soybean	RSC 10-46	50.00
	Soybean	JS 20-116	50.00
PULSES	Black gram	Indira urd -1	10.00
	Pigeonea	C.G.Arhar-1	15.00
	Chickpea	RVG 204	90.00

VEGETABLES	Tomato	Pusa Rubi	0.25
	Coriander	C.G. Dhaniya-1	2.0
	Fenugreek	RMT 305	1.0
FLOWER CROPS	Marigold	Pusa Arpit	5.0
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango (Grafted)	Dashari	2000
	Mango (Grafted)	Himsagar	200
	Mango (Grafted)	Amrapali	500
	Mango (Grafted)	Dilpasand	100
	Mango (Grafted)	Alphanso	2000
	Guava (air layering)	Allahabad safeda	5000
	Guava (air layering)	Lalit	500
	Custard apple (Grafted)	Balanagar	2000
	Custard apple (Grafted)	Arka sahan	100
	Papaya	Pusa Nanha	1000
SPICES			
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS	lemongrass	-	25000
PLANTATION CROPS	Lemon (air layering)	PDKV lime	3000
	Lemon (air layering)	Vikram	2000
	Lemon (air layering)	Premalini	500
	Lemon (air layering)	Kagzi	1000
	Drumstick	PKM-1	2000
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			2000
2	<i>Rhizobium</i>			
3				
BIOFERTILIZERS				

1	Vermicompost			5000
2	NADEP			1000
3				
BIO PESTICIDES				
1	Dasparni arkl			800
2	Pesticides			1000
3	Jivamrit			1000
4	Ghanjivamrit			1000
5	Bijamrit			1000
6	Nimastra			1000
7	Agni astra			1000
8	Bramhastra			1000
9	Sonthastra			1000
10	Fungicide			1000
11	Sapta Dhanyankur arka			1000

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Sahiwal		04	
SHEEP AND GOAT				
POULTRY	Kadaknath		25000	
FISHERIES	Fish			
Others (Specify) Duckery	Duck		1000	
Quail Farming	Quail		5000	

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
01.01.2024	January – March 2024	1000
01.04.2024	April – June 2024	1000
01.07.2024	July- September 2024	1000
01.10.2024	October – December 2024	1000

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	DVD	World Soil Health Day	01
2	DVD	KVK FARM (Kharif & Rabi -2024)	02
3	DVD	Field Day	04
4	DVD	Kisan Mela/Sanghosthi	02

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Cultivation and value addition of Sugarcane, Oilseed crop, to full fill the family needs
2	Rural Youth	Millets cultivation and processing through improve mechanization
3	In-service personnel	Productivity enhancement in agriculture and allied sector
4	methodology for identifying OFTs/FLDs	Conduct trails of thematic area/discipline wise
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Bendarchi	Kawardha	10
2	Khaduda	S.Loharas	25
3	Mahli	Pandariya	30
4	Pandatari	Pandariya	20
5	Saliha	S. Lohara	20

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:....2017.....

List of equipment's purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Double Beam Spectrophotometer	01	Good Condition
2	Digital Balance Citizen	01	Good Condition
3	Double Distillation Unit Borosil	01	Good Condition
4	Water Analyzer Esico	01	Good Condition
5	Rotary Shaker Remi	01	Good Condition
6	Digital Ph Meter Esico	01	Good Condition
7	Flame Photometer Make Systronics	01	Good Condition
8	Conductivity Meter Make Contech	01	Good Condition
9	Hot air oven Make Unitech	01	Good Condition
10	LG Refrigerator (LG GI -1302 RPZY)	01	Good Condition
11	Automatic Nitrogen Digestion System	01	Good Condition
12	Electronic Four Stage Semi-Automatic Acid Neutralizer Scrubber model KEIVA Automatic Nitrogen Distillation Systems	01	Good Condition
13	Electronic Kelpus Superior Fully Auto Run Completely Auto Sequencing Programmable Microprocessor Based Compatible Touch Screen Distillation System within built software with model Classic DX	01	Good Condition

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	1500	10500	17	-
Water Samples				

Total	1500	10500	17	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
MANAGE,	For training
IIVR	For Seed Production Programme Of vegetable crops
DOGR	For Seed Production Programme Of vegetable crops

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
ATMA	Training and FLDs

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
NHM	Farmers Fair/Exhibition

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes Seed Hub (2024-25)

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Kharif 2024	Pigeon pea	15.00
Rabi 2024-25	Chickpea	55.00

Name of Flagship programmes: Natural Farming (2024-25)

Month	Activity details	Targeted Beneficiaries/Area/Coverage	Targeted Area/Coverage
January	Awareness Programme ,	Farmers and farm Women	10
February	Awareness Programme	Farmers and farm Women	10
March	Awareness Programme	Farmers and farm Women	10
April	Awareness Programme	Farmers and farm Women	03
May	Awareness Programme	Farmers and farm Women	02
June	Awareness Programme ,Training	Farmers and farm Women	02
July	Awareness Programme, Demonstration	Farmers and farm Women	04
August	Awareness Programme	Farmers and farm Women	04
September	Awareness Programme	Farmers and farm Women	04
October	Awareness Programme ,training	Farmers and farm Women	04
November	Awareness Programme, Demonstration	Farmers and farm Women	04
December	Awareness Programme	Farmers and farm Women	04

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 2000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Soybean	Kharif 2024	RVS 2001-04	High Yielding Variety	25
		JS 20-29	High Yielding Variety	25
		JS 97-52	High yielding Variety	25
		JS-93-05	High Yielding Variety	25
		JS-20-69	High Yielding Variety	25
		CG SOYA -1	Bud Blight Resistant	25
Green Gram		IPM 2-14	Yellow Mosaic Resistant	25
		PARRYMOONG	High Yielding Variety	25
Groundnut		Dharni	High Yielding Variety	25
Black gram		Indira urd-1	Yellow Mosaic Resistant	25
Rice		Purnima	Drought resistant	25
		Danteshwari	Sheath blight resistant	25
		Mamleshwari	High Yielding Variety	25
		Indira brani rice-1	Blight resistant variety	25
		Rajeshwari	Sheath blight resistant	25
		Durgeshwari	Sheath blight resistant	25
		Chandrasahini	High Yielding Variety	25
		Mahamaya	Sheath blight resistant	25
		Karma masuri	Blast resistance	25
		C.G. Zinc Rice	High Yielding Variety	25
		Shyamala	High Yielding Variety	25
		Indira Maheshwari	High Yielding Variety	25
		Jaldubi	Sheath blight resistant	25
		Bamleshwari	Bacterial leaf blight resistance	25
		C.G. Devbhog	High Yielding Variety	25
		Dub raj selection - 1	High Yielding Variety	25
		C.G. Zinc Rice-1	High Yielding Variety	25
		Indira sugandhit rice-1	High Yielding Variety	25
		Varun bhogselection-1	High Yielding Variety	25

		Badshah bhog selection -1	High Yielding Variety	25
		Dubraj cuten-1	High Yielding Variety	25
		Vishnu bhog selection-1	High Yielding Variety	25
		Indira arohic-1	High Yielding Variety	25
Chickpea	Rabi 2024-25	RVG 201	High yielding Variety	25
		RVG 202	Drought Tolerant	25
		Jaki 9218	High yielding Variety	25
		Indira chana-1	High yielding Variety	25
		Ujjawal	Wilt Resistant	25
Sugarcane	Rabi 2024-25	Nira (86032)	High Yielding Variety	25
		10001	High Yielding Variety	25
		12085	High Yielding Variety	25
		Shyama (98004)	High Yielding Variety	25
		Prabha (85004)	High Yielding Variety	25
Wheat	Rabi 2024-25	GW-322	Suitable for Time sown irrigated condition	25
		GW-366	Suitable for Time sown irrigated condition	25
		CG Gehu-3	Suitable for Time sown irrigated condition	25
		HI-1544	Suitable for Time sown irrigated condition	25
		Ratan	Suitable for Time sown restricted irrigation	25
		HI-8737	Suitable for Time sown restricted irrigation	25
		MP-3366	Suitable for Time sown restricted irrigation	25
		CG-1018	Suitable for Time sown restricted irrigation	25
		MP-1203	Suitable for Time sown restricted irrigation	25
		JW-3288	Suitable for Time sown restricted irrigation	25
		JW 3336	Suitable for Time sown restricted irrigation	25
		JW 3211	Suitable for Time sown restricted irrigation	25
		Kanchan	Suitable for Time sown restricted irrigation	25
		Raj 4238	Suitable for Time sown restricted irrigation	25
		Lok 1	Suitable for Time sown restricted irrigation	25
		C.G. Amber Gehnu	Suitable for Time sown restricted irrigation	25
		HD 2864	Suitable for Time sown restricted irrigation	25
		MP 3288	Suitable for Time sown restricted irrigation	25

		GW 273	Suitable for Time sown restricted irrigation	25
		HI 1500	Suitable for Time sown restricted irrigation	25
PEA	Rabi 2024-25	INDIRA MUTTER-1	Powdery Mildew Resistant	25
LATHYRUS	Rabi 2024-25	MAHATEORA	Powdery Mildew Resistant	25
		PRATIK	Downey Mildew Resistant	25
LINSEED	Rabi 2024-25	RLC-143	Dwarf Variety	25
		RLC-133	Alternaria Blight Resistant	25
GREENGRAM	Rabi 2024-25	Paity Moong	Yellow Mosaic Resistant	25
BLACKGRAM	Rabi 2024-25	INDIRA URD -1	Yellow Mosaic Resistant	25
MUSTARD		CG SARSO-1	Suitable for CG	25

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Quail unit	Quail Production (Capacity: 1500Birds)	80	5000/year
Dairy Unit	One indigenous breed i.e. Sahiwal has been stock in 09 numbers under pure breeding programme Fodder land developed at KVK Farm for Year round fodder production to reduce the concentrate feed cost	210	3500 lit per year
Mother Orchard	Total 200 fruit plants has been established in medium and high density covering an area 1ha	1 ha	25000 plant per year
Nursery Unit	National Horticulture Mission allotted and sanctions Rs. 1500000.00 during 2017-18 for establishment of mother orchard and prepares 25000.00 plants annually.	0.25ha	3.5 lac
Duck Unit	Total 450 duck for production of egg and chick of duck	168	3000/year
Poultry Unit	Kadaknath Production (Capacity: 3000Birds)	300	15000/year
Vermicompost Unit	Twenty five Vermi composting pit for collecting cow dung and 150 qtl. Vermicompost produce one cycle in 45-60 days	144	600q/year
Seed Processing Unit	Seed selling license issue by DDA, Kabirdham, Seed Grader Registration from CG Rajya Seed Certification Agency Per Day Capacity: 250Qt-	223	1000qseed /year

KVK Kondagaon

Year of sanction: 2024-25

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Shri Om Prakash	8889080809	8889080809	kvk.kondagaon@igkv.ac.in

1.2 Staff Position on (31th Dec.2023)

[illegible]

1.3 Total land with KVK (in ha):10.00

S. No.	Item	Area (ha)
1	Under Buildings	1.25
2	Under Demonstration Units	1.00
3	Under Crops	3.0
4	Orchard/Agro-forestry	1.0
5	Others (specify)	3.75
Total		10.00

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	30.03.2023	750	14100000	30-06-2021	750	Complete
2	Farmers Hostel	ICAR	30.03.2023	325	7000000	05-08-2021	325	Complete
3	Staff Quarters (6)	0	0	0	0	0	0	0
4	Demonstration Units (2)	0	0	0	0	0	0	0
5	Fencing	0	0	0	0	0	0	0
6	Rain Water harvesting system	0	0	0	0	0	0	0
7	Threshing floor	0	0	0	0	0	0	0
8	Farm godown	0	0	0	0	0	0	0

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2020	800000	1500 (hr)	Good condition
Motor Cycle 2	0	0	0	0
Bolero(Jeep)	2020	800000	107757.00	Good condition
Other (Pl. specify)	0	0	0	0

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer	2020	120000	Working
Computer	2021	48000	Working
Printer	2021	31500	working
Computer	2023	58000	working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	10 July 2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Rice-Fellow, Maize-Maize
2	AES – 2	Rice-Maize, Rice-Vegetable, Maize-Maize
3	AES – 3	Rice-Vegetable, Rice-Maize, Rice-Linseed, Rice-Fieldpea

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1-Upland-Marhan	- Top elevated, severely eroded, red lateritic soils - Steep sloppy - Water holding capacity – very poor - Soil type – gravelly, acidic in nature, cementing property (surface crusting) - Fertility – very poor, low in NPK - Crops grown (<i>Kharif</i>) – minor millets, maize and niger - Irrigation – No; rainfed - Cropping system – Minor millets/maize/niger – toria/fallow - Productivity – poor/subsistence farming
2	AES - 1-Upland-Tikra	- Elevated, moderately eroded, red lateritic soils - Gentle sloppy - Soil type – gravelly, acidic in nature, cementing property (surface crusting) - Water holding capacity – poor - Fertility – poor, low in NPK - Crops grown (<i>Kharif</i>) – Early rice, minor millets, maize, pigeonpea, horsegram, tuber crops and niger - Irrigation – No; rainfed - Cropping system – Early rice/minor millets/maize/pigeonpea/ horsegram/ tuber crops/ niger– fallow - Productivity – poor/subsistence farming
3	AES – 2-Maal	- Almost leveled - Soil type – Medium textured soils, slightly acidic to neutral in reaction - Water holding capacity – medium - Fertility – moderate - Crops grown (<i>Kharif</i>) – Medium duration rice only - Irrigation – Mostly rainfed - Cropping systems– ✓ Rainfed: Medium duration rice-gram/peas/fallow ✓ Irrigated: Medium duration rice– vegetables/wheat/ sugarcane/maize/spices - Productivity – medium
4	AES – 3-Gabhar	- Leveled lowlands - Soil type – fine textured soils (clayey), neutral in reaction - Water holding capacity – High - Fertility – high - Crops grown (<i>Kharif</i>) – Medium to late duration rice only - Irrigation – Mostly rainfed - Cropping systems– ✓ Rainfed: Medium to late duration rice-gram/peas/fallow ✓ Irrigated: Medium duration rice–

		vegetables/wheat/ maize/spices ■ Productivity – high

**SWOT Analysis of each Agro-Ecological Situations of district
AES-1 (Upland-Marhan)**

Strength	Weakness	Opportunities	Threats
No water logging Suitable for Millets ,oilseed and other draught tolerant crops. Suitable for Goatary,Poultry	- Poor fertility (Low in NPK) - Soil acidic in nature - Low water holding capacity	- Suitable for millet crop, Maize, Niger - Scope for crop diversification - To support resource poor farmers.	- Severely eroded - Resource poor farmers scattered land holding

AES-1 (Upland-Tikra)

Strength	Weakness	Opportunities	Threats
Suitable for early maturity rice, Minor millets, Pulses	- Poor fertility (Low in NPK) - Soil acidic in nature - Low water holding capacity	- Scope for crop diversification - To support resource poor farmers	- Rainfed - Gentle sloping - Monocrop

AES-2 (Midland-Maal)

Strength	Weakness	Opportunities	Threats
- Almost levelled land - Processing and value addition of millets &NTFP	- Rainfed - Fertility and WHC is medium	- Suitable for all type of crop - Soil neutral in nature	Less area under this system

AES-3 (Lowland-gabhar)

Strength	Weakness	Opportunities	Threats
- WHC is high - Levelled land - High productivity - High fertility	☒ Suitable for rice crop only	☒ Suitable for fish rearing under irrigated condition	☒ Poor drainage

Add AES if need

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	7.76 lakh ha.
Forest	3.78 lakh ha.
Waste Land	0.084 lakh ha.
Other than cultivated area	1.82 lakh ha
Cultivable waste and alkaline land	0.082 lakh ha
Pastures	0.036 lakh ha
Bushes	00
Current Fallow	0.082 lakh ha
Other Fallow	0.082 lakh ha
Agricultural Land	1.85 lakh ha
Area Sown	1.78 lakh ha
Kharif	1.78 lakh ha
Rabi	0.62 lakh ha
Zaid	0.12 lakh ha
Cropping Intensity	134.83 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	142
2	Well	190
3	Tube well	5974
4	Ponds	294
5	Others	2462

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Entisols	Gravelly, Acidic in nature, Cementing property, Very poor fertility, Low NKP, water holding capacity very poor	26%
2	Alfisols	Fine texture soil, fertility and water holding capacity is high, productivity high	25%
3	Inceptisols	Medium texture soil, Slightly acidic to neutral in reaction, water holding capacity and fertility medium	34%
4	Vertisols	Fine texture, water holding capacity and fertility is very high, productivity good	10%
5	Alliuvial	Good Fertility, Water holding capacity medium, productivity is high	5%

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
1	Paddy	109870	1087030	9.89
2	Maize	18141	165660	9.13
3	Black gram	8663	84310	9.73
4	Kodo kutki	1114	4190	3.76
5	Niger	729	10610	14.55
6	Vegetable	2875	--	--
7	Spices	232	--	--

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	08	27.6	11.8
Feb. 2023	07	30.7	14.8

Mar. 2023	17	34.7	18.8
Apr. 2023	38	37.4	22.4
May. 2023	34	38.8	24.7
Jun. 2023	227	33.9	23.8
July. 2023	327	28.7	22.1
Aug. 2023	355	28.3	22.0
Sept. 2023	224	29.5	21.8
Oct. 2023	67	29.9	19.3
Nov. 2023	11	28.2	14.6
Dec. 2023	08	26.8	11.3

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	340006	14280 MT.	84 kg
Buffalo	29612	3731.11 MT.	252 Kg
Sheep			
<i>Crossbred/ Indigenous</i>	4623	1.533 MT wool	0.331 Kg
Goats	90235	1398.64 MT	31 Kg
Pigs <i>Crossbred/ Indigenous</i>	52891	11636.02 MT	22 kg
Rabbits			
Poultry			
Hens	771028	131.15186 Lakh eggs	81 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	1085 (ha)	2433.33 Q/ month	26.91 Q/ ha.

Details of Operational area / Villages (2024)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Phrasgaon	Phrasgaon	kosagaon	Maize	Poor crop management	- Imbalnce use of fertilizer - Infestation of fallarmy worm - Fluctuation of market price - Replacememt of summer paddy
				Vegetable	Undiversified horticulture	- Promotion of fruit crop, Intercrop with vegetable - Promotion of perineal vegetables . - Introduction of high yielding tuber and spices crop
2	Phrasgaon	Phrasgaon	Sodma	Maize	Poor crop management	- Imbalnce use of fertilizer - Infestation of fallarmy worm

						• Fluctuation of market price • Replacement of summer paddy •
				Animal (Cattle, Goat ,Poultry & Pig)	Poor growth Poor Yield	• Lack of Nutrition • Lack of fodder • Poor housing • Vaccination • Lack of improved breed • Infertility
3	Keshkal	Keshkal	kuyemari	Kutki,Niger	Low yield	• Broadcasting of seed • Imbalance use of fertilizer • Non availability of improved variety seed at local level • Non availability of regulated market
				Poultry & Pig	Non discript	● Breeds improvement ● Proper Vaccination and deworming ● Nutritional management
4	Keshkal	Keshkal	Nirachindli	Linseed	Low yield	• Introduction of improved variety • Line sowing with seed drill. • Applied scientific full package of practices
				Maize	Poor crop management	• Imbalnce use of fertilizer • Infestation of fallarmy worm • Fluctuation of market price • Replacement of summer paddy

Priority / Thrust areas

S. No.	Particulars
1.	Crop diversification
2.	Varietal replacement
3.	Improved profitability

4.	Nutrient management
5.	Integrated Farming System
6.	Agriculture based employment generation
7.	Cattle, Goat, Bater & Poultry Breed improvement / Upgradation
8.	Improved Health Care & Management Practices
9.	Aquaculture & Fisheries
10.	Insect pest and disease management in major crops.
11.	Empowerment of women and generation of self-employment for rural youths.
12.	Recycling of farm and animal wastes through vermi-composting.
13.	Mechanization through introduction of improved implements.
14.	Enhancement of profit with focus on value addition.

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
16	80	11	70

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
2	30	120	4800

Seed Production (Qtl.)	Planting material (Nos.)
60.2	362450

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Aquaculture & Fisheries	Fisheries	Pond based system fish culture prevalent in the area.	Assessment of High Value Fish spp. Production in Biofloc Technology (BFT)	Demonstration of Air Breathing Fish (<i>Clarias batrachus</i>) culture	Fish Production & Management- Air Breathing Fish (<i>Clarias batrachus</i>) culture.	Fish Production & Management- Air Breathing Fish (<i>Clarias batrachus</i>) culture.	4	Fish Seed
2	Aquaculture & Fisheries	Fisheries	High Input cost in the Pangas Culture	Assessment of Pangas Cultivation with Better Management Practices (BMPs).	Demonstration of Fish cum Duck Culture.	Fish cum Duck Culture.	Fish cum Duck Culture.	4	Fish Seed, Duckling
3	Aquaculture & Fisheries	Fisheries	A rural subsistence (extensive, low input practices)	Assessment of Monosex sp. (<i>Oreochromis niloticus</i>) in Pond Culture System.	Demonstration of Composite Fish Culture in Tanks.	Composite Fish Culture	Composite Fish Culture	4	Fish Seed
4	Aquaculture & Fisheries	Fisheries	Low potentiality of ponds due to low value fishes.	Assessment of Poly culture of Carps & Prawn in pond culture System.	-	-	-	2	Fish Seed
5	Farm mechanization	FMPE	Broadcasting of seed(high input, low productivity)	Assessment line sowing of linseed	Demonstration of line sowing of Paddy	-	Line sowing	4	Seed
6	Farm mechanization	FMPE	Broadcasting of seed(high input, low productivity)	Assessment line sowing of Finger-millet	Demonstration of Tractor Drawn Planter for line sowing of chickpea	-	Line sowing	4	Seed
7	Farm mechanization	FMPE	Dibbling of seed (more manpower and time	Assessment of line sowing sowing of	Demonstration of mulcher machine for		Line sowing	4	Seed

			required)	maize using multicrop planter with drip system	management of crop residue				
8	Farm mechanization	FMPE	Burning of straw, loss of soil nutrients	Assessment of baler machine for management of paddy straw	-	Baler machine		2	Baler machine
9			Low yield of Local genotypes	Assessment of performance of colocasia in summer season	Demonstration of improved variety of elephant foot yam	Colocasia farming practices		4	Colocasia seed
10			Low yield due to heavy infestation of weeds.	Assessment of weed management practices in okra.	Demonstration of Pinching effect on yield of African Marigold	Okra farming		4	Okra seed
11			Low yield due to use of local varieties, which are not resistance of bacterial Wilt.	Assessment of Bacterial wilt resistance high yielding variety of brinjal		Brinjal farming		2	Brinjal seed
12			Imbalance use of micronutrients due lack of knowledge .	Assessment of foliar application of boron and molybdenum micronutrient in cauliflower.		Nutritional management in cauliflower		2	Cauliflower seed
13	Poultry Production and Management	Livestock Production Management	High mortality & survivability	Assessment of rearing Guinea fowl as a backyard poultry and popularize over traditional backyard poultry farming.	Demonstration of rearing Quail in a deep litter system to provide quick supplemental income and protein over traditional backyard poultry	Quail Production & Management		4	Quail, Feed, Medicine

					farming.				
14	Improved Health Care & Management Practices	Livestock Production Management	Poor growth, high mortality	Assessment of turmeric as growth promoter in poultry diet.	Demonstration of rearing Kadaknath as profitable farming over traditional backyard poultry farming.	Kadaknath Production & Management		4	Chicks, feed, vaccine and multivitamins
15	Improved Health Care & Management Practices	Livestock Production Management	Farmers have kachcha floor	Assessment of wooden/Bamboo floor shed for goat.	Demonstration of supplementary Azolla feeding in Kadaknath poultry diet.	Stress management in Goat		4	Wooden/Bamboo floor, wooden pole
16	Poultry Production and Management	Livestock Production Management	Poor growth and profitability in local duck	Assessment of rearing Khaki Campbell ducks as a profitable farming over local duck farming		Kadaknath Production & Management		2	

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal assessment	3	1	0	0	3	0	0	0	1	8
TOTAL		1	0	0	3	0	0	0	1	8

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Livestock/Poultry Production & Management	0	3	0	1	0	0	0	4
Fish Production Management	0	0	0	0	0	0	4	4
TOTAL	0	3	0	1	0	0	4	8

Detailed Information about OFT:

OFT-01

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of High Value Fish Production in Biofloc Technology (BFT)
Year/Season:	2024-25
Farming situation:	Fish Production
Problem diagnosis:	Pond based system fish culture prevalent in the area.
Thematic area:	Fish Production & Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assesment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 - Low density in pond culture system with large area
T2 –Recommended Practice-	T2 - High Value Fish Species i.e. Clarias sp., Prawn etc. Inoculum – 150 L water + 3 Kg Pond Soil + 1.5 gm Ammonium Phosphate/ Urea + 30 gm Carbon Source i.e. Jaggery/Flour etc. + Mixing + Continuous Aeration for 24 – 48 hrs + Transferred to Biofloc Tank. C:N Ration – 10:1, Floc Volume : 25-35 ml/L Feeding – 1-2 % body weight of fish.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NFDB, Hyderabad
Characteristics of technology:	Survival percentage, Yield, B:C ratio
Name of Crop/Enterprises:	Fish Production Management
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-02

Name of Discipline	Fisheries
Title of on-farm trial:	(BMPs).Assessment of Monosex <i>sp. (Oreochromis niloticus)</i> in Pond Culture System.
Year/Season:	2024-25
Farming situation:	-
Problem diagnosis:	A rural subsistence (extensive, low input practices)
Thematic area:	Fish Production & Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 - Traditional practices
T2 –Recommended Practice-	T2 - Size of the seed stocked : Sex Reversed Tilapia (SRT) seed (more than 10 g) 30 Days old sex reversed tilapia (SRT) to be reared to 10 g size raised in on-farm nurseries or in registered seed farms,

	Stocking density: Maximum of 5 nos/m ² Bio-security : to ensure no escape of the biological material from the farm to the water source
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Rajiv Gandhi Centre for Aquaculture (RGCA) under Marine Products Export Development Authority (MPEDA), GOI, Nagapattinam, TN & NFDB, Hyderabad
Characteristics of technology:	Yield of Fish, B:C ratio
Name of Crop/Enterprises:	Monosex Tilapia Culture
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT -03

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of Poly culture of Carps & Prawn in pond culture System.
Year/Season:	2024-25
Farming situation:	-
Problem diagnosis:	Low potentiality of ponds due to low value fishes.
Thematic area:	Fish Production & Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 - Traditional practices i.e not using the polyculture of fin fish and shell fishes.
T2 –Recommended Practice-	T2 - Stocking of Freshwater Prawn @ 20 Juvenile/ha + Catla & Rohu @ 5000 Fingelings/ha with 2:1 Proportion, 4. Feeding of Oil Cake+Rice
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CIFA, Bhubaneswar
Characteristics of technology:	Yield, Length-Weight, B:C ratio
Name of Crop/Enterprises:	Fish Production & Management
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-04

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of Pangas Cultivation with Better Management

	Practices
Year/Season:	2024-25
Farming situation:	-
Problem diagnosis:	High Input cost in the Pangas Culture
Thematic area:	Fish Production & Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	Details of technology selected for assessment/ refinement:
T1 – Farmers Practice-	T1 - Traditional practices
T2 –Recommended Practice-	T2 - Fish can be stocked at rates of 40 fish/m ² (Pangasius sp.) with proper liming, fertilization, manuring and feeding.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CIFA, Bhubaneswar
Characteristics of technology:	Survival percentage, Yield, B:C ratio
Name of Crop/Enterprises:	Fish Production & Management
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-05

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of Line Sowing of Linseed
Year/Season:	2024-25
Farming situation:	Irrigated
Problem diagnosis:	- Sowing is done by manual (broadcasting) it is time consuming. - Lack of Knowledge about proven agril. Machineries. - High seed rate.
Thematic area:	Farm Mechanization
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing by Broadcasting
T2 –Recommended Practice-	Sowing by using Multicrop Planter
T3- Recommended Practice-	-
Date of sowing:	10/11/2024
Date of harvesting:	12/03/2025
Source of technology:	Commercial Make
Characteristics of technology:	Multi Crop Planter
Name of Crop/Enterprises:	Linseed (RLC-153)
Recommendations for Farmers	-

Recommendations for Deptt. Personnel	-
Feedback	-

OFT-06

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering
Title of on-farm trial:	Assessment of Line Sowing of Finger millet
Year/Season:	2024-25
Farming situation:	Irrigated
Problem diagnosis:	- Sowing is done by manual (broadcasting) it is time consuming. - Lack of Knowledge about proven agril. Machineries. - High seed rate.
Thematic area:	Farm Mechanization
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing by Broadcasting
T2 –Recommended Practice-	Sowing by using Multicrop Planter
T3- Recommended Practice-	-
Date of sowing:	15/07/2024
Date of harvesting:	10/12/2024
Source of technology:	Commercial Make
Characteristics of technology:	Multi Crop Planter
Name of Crop/Enterprises:	FingerMillet (INDIRA RAGI-1)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-07

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of line sowing of maize crop using multicrop planter with drip system
Year/Season:	2024-25
Farming situation:	Irrigated
Problem diagnosis:	- Sowing is done by manual (dibbling) it is time consuming. - Lack of Knowledge about proven agril. Machineries. - High seed rate.
Thematic area:	Farm Mechanization

No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sowing by Broadcasting
T2 –Recommended Practice-	Sowing by using Multicrop Planter
T3- Recommended Practice-	-
Date of sowing:	15/10/2024
Date of harvesting:	25/02/2025
Source of technology:	Commercial Make
Characteristics of technology:	Multi Crop Planter
Name of Crop/Enterprises:	Maize (pro.-379)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-08

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assesment of baler machine for management of paddy straw
Year/Season:	2024-25
Farming situation:	-
Problem diagnosis:	Burning of straw,loss of soil nutrients
Thematic area:	Farm Mechanization
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Burning of straw
T2 –Recommended Practice-	Management of straw by using Baler Machine
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Commercial Make
Characteristics of technology:	Baler Machine
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT - 09

Name of Discipline	Horticulture OFT
Title of on-farm trial:	Assessment of performance of colocasia variety in summer season
Year/Season:	Jan. – Dec 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield of local genotypes
Thematic area:	Varietal Evaluation
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local varieties
T2 –Recommended Practice-	Chhattisgarh Arvi – 2
T3- Recommended Practice-	White gouriya
Date of sowing:	8 Feb. 2024
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	Plant height, tuber yield per plant, Yield per ha. , B:C ratio
Name of Crop/Enterprises:	Colocasia
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT - 10

Name of Discipline	Horticulture OFT
Title of on-farm trial:	Assessment of weed management practices in okra
Year/Season:	Jan. – Dec 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to heavy infestation of weeds
Thematic area:	Weed management
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Weed free check (3 hand weeding)
T2 –Recommended Practice-	Pendimethalin @1000gm. / ha. as pre emergence weedicide + Hand weeding at 30 DAS
T3- Recommended Practice-	Pendimethalin @1000gm. / ha. as pre emergence weedicide
Date of sowing:	24 Feb. 2024
Date of harvesting:	-
Source of technology:	OUAT, Bhubaneswar (2020)
Characteristics of technology:	Yield, B:C ratio
Name of Crop/Enterprises:	Colocasia
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-

Feedback	-

OFT - 11

Name of Discipline	Horticulture OFT
Title of on-farm trial:	Assessment of Bacterial wilt resistance high yielding variety of brinjal
Year/Season:	Jan. – Dec. 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of local variety available in market , which is not resistance to bacterial wilt
Thematic area:	Varietal Evaluation
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of local variety available in market
T2 –Recommended Practice-	Arka Anand (Bacterial Wilt resistance)
T3- Recommended Practice-	Arka Nidhi (Bacterial Wilt resistance)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIHR, Bangalore
Characteristics of technology:	Yield, B:C ratio
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT - 12

Name of Discipline	Horticulture OFT
Title of on-farm trial:	Assessment of foliar application of boron and molybdenum micronutrient in cauliflower.
Year/Season:	Jan. – Dec. 2024
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to use of local variety available in market , which is not resistance to bacterial wilt
Thematic area:	Varietal Evaluation
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Not in practices or Imbalance use of micronutrients
T2 –Recommended Practice-	Foliar spray of borax @0.3% + Ammonium molybdate @ 0.05% at 45 days after transplanting
T3- Recommended Practice-	T3 – Two level of borax @ 10 & 20 kg. / ha. Sodium molybdate @ 1 & 2 kg. / ha. alone.
Date of sowing:	-

Date of harvesting:	-
Source of technology:	SKNAU, Jobner
Characteristics of technology:	Plant height (cm.), Number of leaves, Net curd weight (gm.), Yield (q./ha.), B:C ratio
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-13

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of rearing Guinea fowl as a backyard poultry and popularize over traditional backyard poultry farming.
Year/Season:	2024-25
Farming situation:	-
Problem diagnosis:	High mortality & survivability of desi poultry
Thematic area:	Livestock Production Management, Poultry production
No of trials:	10
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Rearing of Desi birds, High mortality
T2 –Recommended Practice-	Rearing Guinea fowl as a backyard
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	GBPUAT, Pantnagar
Characteristics of technology:	Poultry Production
Name of Crop/Enterprises:	Poultry Production
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-14

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of turmeric as growth promoter in poultry diet.
Year/Season:	2023
Farming situation:	-
Problem diagnosis:	Poor growth,high mortality
Thematic area:	Livestock Production Management, Poultry production
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Traditional rearing with out turmeric

T2 –Recommended Practice-	T2- Add Turmeric in poultry feed @ 0.5%
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Chhattisgarh Kamdhenu Vishwavidyalaya, Durg
Characteristics of technology:	Poultry Production
Name of Crop/Enterprises:	Poultry Production
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-15

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of wooden/Bamboo floor shed for goat
Year/Season:	2024-25
Farming situation:	-
Problem diagnosis:	Stress due to wet floor, parasitic load due to improper housing management
Thematic area:	Livestock Production Management, Poultry production
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Kachcha floor in animal house
T2 –Recommended Practice-	T2- Use of wooden/Bamboo floor for Goat house
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	GBPUAT Pantnagar 2008, CIRG, Makhadum 2007
Characteristics of technology:	Body weight gain (Kg.),B: C ratio
Name of Crop/Enterprises:	Livestock Production Management
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-16

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of rearing Khaki Campbell ducks as a profitable farming over local duck farming
Year/Season:	2024-25
Farming situation:	-
Problem diagnosis:	Poor growth and profitability in local duck
Thematic area:	Livestock Production Management

No of trials:	
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	05
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional farming with local ducks
T2 –Recommended Practice-	Rearing of Khaki Campbell ducks
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR Research complex of eastern region,Patna, 2020
Characteristics of technology:	Survivability, Net Profit, BC Ratio
Name of Crop/Enterprises:	Livestock Production Management (Duck farming)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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 Dept. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demonstration	Parameters identified for performance evaluation
1	Elephant foot yam	Varietal evaluation	Improved variety of elephant foot yam (Gajendra)	Planting Material	Kharif 2024	0.202	5	Tuber Yield per plant, Stem girth, Tuber yield/hactare, B:C ratio
2	African Marigold	Crop Management	First pinching at 20 DAT, Second pinching 15 days after first pinching	Seed	Rabi 2024	0.202	5	-

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	11	July,Nov,Dec,Jan	500
2	Farmers Training	22	Jun-July,Oct-Nov	700
3	Media coverage	11	Dec	Mass
4	Training for extension functionaries	4	Dec	70

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Multi Crop Planter	Paddy	2024-25	05	2.0 ha	Seeds	Yield q/ha, B:C Ratio, No. of tillers/m ²	Sowing by Multicrop Planter	Broadcasting
Tractor Drawn Planter	Chickpea	2024-25	05	2.0 ha	seeds	Yield q/ha, B:C Ratio, No. of Branches/Plant	Sowing by Multicrop Planter	Broadcasting
Mulcher	Any Crop Residue	2024-25	05	2.0 ha	seeds	Nutrient Management	Mulcher	Burning of Crop Residue

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Demonstration of rearing Quail in a deep litter system to provide quick supplemental income and protein over traditional backyard poultry farming.	Quail	10	1000	Quail,Multivitamin,Feed	Survivability, BC Ratio		

Demonstration of rearing Kadaknath as a profitable farming over traditional backyard poultry farming.	Kada kanth	10	300	Chicks, Feed,vaccine and multivitamins	Survivability, Net Profit, BC Ratio		
Demonstration of supplementary Azolla feeding in Kadaknath poultry diet	Azolla	10	-	Polythene, Azolla	Growth rate,BC Ratio		

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Demonstration of Air Breathing Fish (<i>Clarias batrachus</i>) culture.	Fish (<i>Clarias batrachus</i>)	5	02	Fish seed of <i>Clarias batrachus</i>	ABW, Yield, B:C ratio		
Demonstration of Fish cum Duck Culture.	Integration of Fish and Duck	5	05	Fish seed of Indian Major Carps and ducklings	Yield of fish & duck (Egg & meat), B: C ratio		
Demonstration of Composite Fish Culture in Tanks.	Fish (Indian Major Carps)	5	05	Fish seed on Indian Major Carps (Catla, Rohu and Mrigal)	ABW, Yield, B:C ratio		

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Niger	Integrated crop management	Improved variety, method of sowing, Pest management, Nutrient management	Line sowing, Seed , Micro-nutrient, Insecticide/Pesticide	Khariff-2024	30	75	Yield/ha
2	Linseed	Integrated crop management	Improved variety, method of sowing, Pest management, Nutrient management	Line sowing, Seed , Micro-nutrient, Insecticide/Pesticide	Rabi-2024	30	75	Yield/ha
	Black gram	Integrated crop management	Improved variety, method of sowing, Pest management, Nutrient management	Line sowing, Seed , Insecticide/ Pesticide	Khariff-2024	20	50	Yield/ha

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others		SC/ST						Grand Total
			Male	Female	Total		Male	Female		Total	
I development of farmers/youths											
WTO and IPR issues											
Total	1	1	5	5		10	5	5	10	20	
XI Agro-forestry											
Total											
XII Others (Pl. Specify)											
Grand Total											
(B) RURAL YOUTH											
Mushroom Production											
Bee-keeping	1	1	5	0		5	15	5	20	25	
Seed production	1	1	5	0		5	15	5	20	25	
Planting material production	2	1	10	0		10	30	10	40	50	
Vermi-culture	1	1	5	0		5	15	5	20	25	
Value addition											
Sheep and goat rearing	2	1	10	0		10	30	10	40	50	
Para extension workers	2	1	10	0		10	30	10	40	50	
TOTAL	9	6	45	0		45	135	45	180	225	
(C) Extension Personnel											
Productivity enhancement in field crops	1	1	5	0		5	15	5	20	25	
Integrated Pest Management	2	1	10	0		10	30	10	40	50	
Integrated Nutrient management	2	1	10	0		10	30	10	40	50	
Protected cultivation technology											
Group Dynamics and farmers organization											
Capacity building for ICT application											
Livestock feed and fodder production	2	1	10	0		10	30	10	40	50	
Production and use of organic inputs	2	1	10	0		10	30	10	40	50	
Gender mainstreaming through SHGs											
Any other (Pl. Specify)											
TOTAL	9	5	45	0		45	135	45	180	225	

Group dynamics									
Formation and Management of SHGs									
Mobilization of social capital									
Entrepreneurial development of farmers/youths									
WTO and IPR issues									
XI Agro-forestry									
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs									
Sheep and goat rearing	2	1	10	0	10	20	10	30	40
TOTAL	2	1	10	0	10	20	10	30	40
(C) Extension Personnel	5	1	50	0	50	50	5	55	105
TOTAL	5	1	50	0	50	50	5	55	105

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
		Pulse crop	1	05	05	10	20	15	35	45
		Oilseed	1	05	05	10	20	15	35	45
		Integrated Farming System	1	5	5	10	15	5	20	30
		Natural Farming	1	05	05	10	20	15	35	45
Horticulture										
		Vegetable production	1	05	05	10	20	15	35	45
		Fruit production	1	05	00	05	25	15	40	45
		Badi Management	1	05	05	10	15	5	20	30
		Round the year vegetable production for better profitability	1	05	05	10	20	15	35	45
Livestock production		Dairy Production & Management	1	5	5	10	10	10	20	30
		Goat Production & Management	1	5	5	10	10	10	20	30
		Poultry Production and Management	1	5	5	10	10	10	20	30
		Pig Production and Management	1	5	5	10	10	10	20	30
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
		Care and maintenance of farm machinery	1	05	05	10	20	15	35	45
		Uses of different farm machinery for various	1	05	00	05	25	15	40	45

		farming operation								
		Value addition of millet's	1	05	05	10	15	5	20	30
		Calibration of multi crop planter	1	05	05	10	20	15	35	45
Soil Science										
Fisheries		Pond management for fish culture	1	15	0	15	10	5	15	30
		Water parameters and their management for fish culture	1	15	0	15	10	5	15	30

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
		Dalhan Utpadan ki Unnat Taknik	1	05	05	10	20	15	35	45
		Integrated Farming System	2	5	5	10	15	5	20	30
Horticulture										
		Vegetable production	1	05	05	10	20	15	35	45
		Fruit production	1	05	00	05	25	15	40	45
		Badi Management	1	05	05	10	15	5	20	30
		Round the year vegetable production for better profitability	1	05	05	10	20	15	35	45
Livestock production		Dairy Production & Management	1	5	5	10	10	10	20	30
		Goat Production & Management	1	5	5	10	10	10	20	30
		Poultry Production and Management	1	5	5	10	10	10	20	30

		Pig Production and Management	1	5	5	10	10	10	20	30
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
		Care and maintenance of farm machinery	1	05	05	10	20	15	35	45
		Uses of different farm machinery for various farming operation	1	05	00	05	25	15	40	45
		Value addition of millet's	1	05	05	10	15	5	20	30
		Calibration of multi crop planter	1	05	05	10	20	15	35	45
Soil Science										
Fisheries		Liming and its use in fisheries	15	0	15	10	5	15	30	15
		Fish Diseases in its management	15	0	15	10	5	15	30	15
		Fish Farming through Community Participation	15	0	15	10	5	15	30	15

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
		Minor Millet Production Technique	1	5	0	5	30	10	45	50
		Linseed Production Technique	1	5	0	5	30	10	45	50
		Natural Farming	1	10	5	15	15	5	20	35
Horticulture										
		Vegetable production	1	05	05	10	20	15	35	45
		Fruit	1	05	00	05	25	15	40	45

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		production								
		Badi Management	1	05	05	10	15	5	20	30
		Round the year vegetable production for better profitability	1	05	05	10	20	15	35	45
Livestock production		Artificial Insemination Technique	1	10	4	14	11	5	16	30
		Fodder production technique	1	10	4	14	11	5	16	30
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
		Care and maintenance of farm machinery	1	05	05	10	20	15	35	45
		Uses of different farm machinery for various farming operation	1	05	00	05	25	15	40	45
		Value addition of millet's	1	05	05	10	15	5	20	30
Soil Science										
Fisheries		Liming and its use in fisheries	1	10	5	15	15	5	20	35
		Fish Diseases in its management	1	10	4	14	11	5	16	30
		Fish Farming through Community Participation	1	10	4	14	11	5	16	30
		Pond	1	10	5	15	15	5	20	35

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
		Minor Millet Production Technique	1	5	0	5	30	10	45	50
		Linseed Production Technique	1	5	0	5	30	10	45	50
		Natural Farming	1	10	5	15	15	5	20	35
Horticulture										
		Vegetable production	1	05	05	10	20	15	35	45
		Fruit production	1	05	00	05	25	15	40	45
		Badi Management	1	05	05	10	15	5	20	30
		Round the year vegetable production for better profitability	1	05	05	10	20	15	35	45
Livestock production										
		Artificial Insemination Technique	1	10	4	14	11	5	16	30
		Fodder production technique	1	10	4	14	11	5	16	30
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
FMPE		Care and maintenance of farm machinery	1	05	05	10	20	15	35	45
		Uses of different farm machinery for	1	05	00	05	25	15	40	45

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Soil test campaigns	1	15	0	15	0	0	0	15	0	15
Farm Science Club Conveners meet	-	0	0	0	0	0	0	0	0	
Self Help Group Conveners meetings	1	20	10	30	0	0	20	10	30	40
Mahila Mandals Conveners meetings	1	20	10	30	0	0	20	10	30	40
Celebration of important days (specify) Akhti Tihar, Yoga Day, Foundation day	05	40	10	50	0	0	0	40	10	50
Others (pl. specify)										
Total	0	0	0	0	0	0	0	0	0	0

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Finger Millet	CG Ragi-02	8.00
	Kodo Millet	CG Kodo-03	12.00
	Little Millet	CG Kutki-02	5.00
	Rice	Vikram TCR	15.00
CEREALS-Rabi	Finger millet	C.G Ragi- 3	15.00
VEGETABLES_Kharif	Elephant foot yam	Gajendra	10. 00
	Colocasia	C.G.Arbi -2	10.00
Total	-	-	90.00
FLOWER CROPS	Marigold and other ornamental plants	Orange bunch (Marigold)	9000
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango	Seeded	10000
	Custurd Apple	Seeded	3000
	Lemon	Seeded	2000
	Jackfruit	Seeded	3000
SPICES	Chilli	Arka Meghna	8000
	Onion	N-53	300000

VEGETABLES	Brijal	Arka Anand	8000
	Cauliflower	Early Kunwari	9000
	Cabbage	Golden Acre	8000
	Ivygaurd	Indira Kundru - 35	1500
	Tomato	Arka Rakshak	9000
	Lobia	Kashi Kanchan	20 kg
FOREST SPECIES	-	-	-
ORNAMENTAL CROPS	Croton	Yellow	500
	Farkariya	-	200
	Jade plant	-	200
	Mame Bonsai	-	50
PLANTATION CROPS	-	-	-
Others (specify)			
Total			362480

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	<i>Rhizobium</i>			
3				
BIOFERTILIZERS				
1	Vermicompost			8000
2	NADEP			
3				
BIO PESTICIDES				
1	Nimastra			50
2	Brahmastra			50
3	Ghanjivamrit			50

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-			
SHEEP AND GOAT	-			
POULTRY (Bater)	Bater	J.Quail	5000	100.00
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
2021	Trimester	500/

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Projector	Training	12
2			
3			

Success stories/Case studies identified for development as a case: 05 (no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA, GD
2	Rural Youth	PRA, GD, Line Deptt.
3	In-service personnel	GD, Line Deptt
4	methodology for identifying OFTs/FLDs	PRA
5	Matrix ranking	PRA

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Kuyemari	Keshkal	55
2	Sodhma	Phasrasgaon	16
3	Nirachhindali	Keshkal	33
4	Kosagaon	Phasrasgaon	17

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:None

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Computer	05	Good
2	Printer	04	Good
3	Projector	01	Good
4	Rotavator	01	Good
5	Cultivator	01	Good
6	MV Plough	01	Good

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	61	52	11	18000
Water Samples	0	0	0	0
Total	0	0	0	0

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Agriculture	Training and Joint diagnostic Visit, Demonstration
Beej Nigam	Seed Production
NABARD	Project Facilitation
Horticulture	Training and Joint diagnostic Visit, Demonstration
Coconut	Training and Joint diagnostic Visit, Demonstration
Veterinary	Training and Joint diagnostic Visit, Demonstration
District administration	MNREGA

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
ATMa	Training and Joint Visit
NFSM	Training and Demons

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Infrastructure Protected Cultivation	Planting Material preparation

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
-	-	-

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 1200 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Ragi	Kharif	Indira Ragi-1, CG Ragi-2, CG Ragi - 3	Improved Varieties	200+200+200
Kodo	Kharif	Indira Kodo-1, CG Kodo-2, CG Kodo - 3	Improved Varieties	200+200+200
Kutki	Kharif	CG Kutki , CG Son Kutki	Improved Varieties	200+200
Urd	Kharif	Indira Urd -1	Improved Varieties	200
Alsi	Rabi	RLC – 143, Indira Alsi - 32	Improved Varieties	200+200
Moong		MH – 421, Shikha	Improved Varieties	200+200

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Mother Orchard	Mango, guava, lemon, jackfruit, sapota etc.	0.809 ha	8000 Grafted plants
Vermicompost	16 tanks	200 Sqm	400 qt
Bater unit	J.quail	20	Bater chicks

ANNUAL ACTION PLAN 2024

KVK Korba

Year of sanction: 2007

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. S.K. Upadhyay	-	9424227313	kvk.korba@igkv.ac.in

1.2 Staff Position on (31th Dec.2023)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator									
2	Subject Matter Specialist	Dr. S.K. Upadhyay	SMS (I/c PC)	Agronomy	Level 14 (Rs. 98800/-)	06.09.2012	22.07.2013	9424227313	upadhyaysk18@gmail.com	
3	Subject Matter Specialist	Smt. Sulochana Bhuyan	SMS	Fisheries	Level 12 (Rs. 56100/-)	25.10.2007	31.08.2018	8085357265	sulochana.bittu@gmail.com	
4	Subject Matter Specialist	Shri D.K. Tanwar	SMS	Soil Science	Level 14 (Rs. 80300/-)	11.09.2012	11.09.2012	9926101046	dt_korba@rediffmail.com	
5	Subject Matter Specialist	Shri Mahipal Singh Urre	SMS	Entomology	Level 14 (Rs. 80300/-)	12.09.2012	31.10.2014	9406001348	ms.urre@yahoo.com	
6	Subject Matter Specialist	Smt. Archana Banjare	SMS	Horticulture	Level 14 (Rs. 80300/-)	14.09.2012	14.09.2012	9893780028	archi.k1986@gmail.com	
7	Subject Matter Specialist	-	SMS							
8	Programme Assistant	Ms. Ritika Thakur	Programme Assistant	Plant Pathology	Level 8 (Rs. 46200/-)	31.10.2014	31.10.2014	8305202453	ritikathakur22@gmail.com	
9	Computer Programmer/ Programme Assistant	Shri Ramesh Kumar Rathore	Programme Assistant	Computer	Level 8 (Rs. 39900/-)	31.10.2019	31.12.2019	7999104684	rameshrathore29@gmail.com	
10	Farm Manager	Smt. Anamika Nirala	Farm Manager	Agronomy	Level 10 (Rs. 48600/-)	31.10.2014	12.08.2015	9893334031	anamikasonit@gmail.com	
11	Assistant	-	-	-						
12	Jr. Stenographer / Comp. Operator	-	-	-						
13	Driver	Shri Deonath Yadav	Driver	-	Level 4 (Rs. 26200/-)	30.03.2013	30.03.2013	7987662938		
14	Driver	-	-	-						
15	Supporting staff	Shri Ramayan Kenwat	Peon	-	Level 2 (Rs. 25800/-)	10.10.2008	08.08.2016	8641056712		
16	Supporting staff	Shri Bisahat Dahariya	Peon	-	4750-7440+GP 1300 (Rs.6410+GP 1300)	26.09.2015	26.09.2015	9993439380		

1.3 Total land with KVK (in ha): 12

S. No.	Item	Area (ha)
1	Under Buildings	1.50
2	Under Demonstration Units	1.00
3	Under Crops	4.50
4	Orchard/Agro-forestry	3.50
5	Others (specify) pond	0.40
6	Meteorology	0.20
8	vegetables	0.10
9	Grassing	0.40
10	Fodder	0.40
Total		12.00

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2013	-	-	-	-	-
2	Farmers Hostel	Gram Panchayat	-	-	-	-	-	-
3	Staff Quarters (6)	NA	-	-	-	-	-	-
4	Demonstration Units (2)		-	-	-	-	-	-
5	Fencing		-	-	-	-	-	-
6	Rain Water harvesting system		-	-	-	-	-	-
7	Threshing floor	Nil	-	-	-	-	-	-
8	Farm godown	SPP				-	-	-
9	Mushroom lab	DMF	2021	1200Sm2	220000	-	-	-
10	Poly House	DMF	2021	4000 sq m2	110000	-	-	-
11	Net House	DMF	2021	4000 sqm2	110000	-	-	-
12	Demonstration Units (Livestock Shed)	ATARI (EP & D)	2015	1400 sqm2	466000	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2007	381865.00	3290 hrs.	Need to replace
Tractor	2024	872100.00		New purchasing
Motor Cycle 2	2010	44015	83466	Need to replace
Bolero(Jeep)	2018	-	149240	Good
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Tractor trolly	2007	87526.00	Maintenance required
cultivator	2007	12800.00	running (old)
Leveller	2007	8753.00	Running
Rotavetor	2010	73066.00	Maintenance required
Thresher	2012		Need to replace
Reaper	2013	126200.00	Need to replace

Hydrolic trolly			Not available
Cultivator	2024		New
Datari copper	2024		New

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	May 2024
2	sept 2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Crop based : Paddy/ Maize/-Wheat/Lathyrus/ Mustard or Toria / Rabi Maize/Gram
2	AES – 2	Horticulture based : Chilli/Tomato/Brinjal/Okra/ Onion/Cucurbits
3	AES – 3	Live stock based : Cow/Buffalo/Goat/ Poultry

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	ACZ- Chhattisgarh plains and AES (Eastern Plateau) Zone - VII	hot sub-humid

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 Crop based : Paddy/ Maize/-Wheat/Lathyrus/ Mustard or Toria / Rabi Maize/Gram)

Strength	Weakness	Opportunities	Threats
☐ Agro-climate are suitable for crop based farming *Adequate Rainfall	☐ Lack of awareness of production technology *Lack of awareness of insect-pest management *heavy loss due to disease infestation	☐ Introduction of new crop and variety of Paddy/ Maize/-Wheat/Lathyrus/ Mustard or Toria / Rabi Maize/Gram *	☐ Wider Adaptation *Heavy infestation of diseases and insect

AES-2 (Horticulture based : Chilli/Tomato/Brinjal/Okra/ Onion/Cucurbits)

Strength	Weakness	Opportunities	Threats
☐ Agro-climate are suitable for crop based farming *Adequate Rainfall	☐ Lack of awareness of production technology *Lack of awareness of insect-pest management *heavy loss due to disease infestation	☐ Introduction of new crop and variety of Chilli/Tomato/Brinjal/Okra/ Onion/Cucurbits *	☐ Wider Adaptation *Heavy infestation of diseases and insect

AES-3 (Live stock based : Cow/Buffalo/Goat/ Poultry)

Strength	Weakness	Opportunities	Threats
☐ Climate Adaptation abundant forest area	☐ Lack of awareness of production technology *Lack of awareness of disease management *heavy loss due to disease infestation Grazing	☐ Introduction of breed Cow/Buffalo/Goat/ Poultry - Breed Improvement - Egg production and incubation	☐ Moratlity * No round the year availability of green fodder

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	714.55
Forest	188.416
Waste Land	30.643

Other than cultivated area	28.690
Cultivable waste and alkaline land	7.162
Pastures	21.581
Bushes	0.029
Current Fallow	7.162
Other Fallow	8.862
Agricultural Land	164.616
Area Sown	162.595
Kharif	131.076
Rabi	33.540
Zaid	
Cropping Intensity	128%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	4579
2	Well	827
3	Tube well	305
4	Ponds	489
5	Others	2125

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Entisol (Bhata)	Red sandy-gravelly soil, coarse texture	
2	Inceptisol (Matasi)	Light yellow or grey in colour	
3	Alfisol (Dorsa)	Red loam soil, less water holding capacity	
4	Vertisol (Kanhar)	Dark brown to black clour	

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of Major Kharif crops of Korba District

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	98741	227161.41	2365
2	Maize	7932	14571.08	1837
3	Horse gram	2585	963.17	381
4	Tur (Arhar)	3424	1729.12	505
5	Urd	2765	1700.47	615
6	Til	1605	627.55	391
7	Niger	719	232.24	323
8	Ground nut	570	809.97	1421
9	Kodo-kutki	216	82.08	380
10	Ragi	60	15.18	253

Area, Production and Productivity of Major Rabi crops of Korba District

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Rapeseed+Mustard	4039	1857.9	460
2	Linseed	733	190.58	260
3	Wheat	1376	1417.28	1030
4	Maize	1352	1757.6	1300
5	Gram	800	744	930
6	Urd	637	369.46	580

Source : DDA (Agril. Dept. Korba) , 2022-23

Area, Production and Productivity of Horticultural crops of Korba District

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
	Fruits			
1	Mango	5853	24535	41.92
2	Guava	2131	22909	107.50
3	Banana	1180	32891	278.74
4	Custard Apple	1137	5912	52
5	Ber	1129	25063	222
	Vegetable			
6	Bhindi	1842	18126	98.40
7	Potato	1620	19116	118
8	cowpea	1526	6348	41.60
9	Brinjal	1221	22344	183
	Spices			
10	Turmeric	884	6675	75.51
11	Coriander	822	3733	45.41
12	Chilli (Dry)	744	5082	68.30
	Flower			
13	Marigold	662	4660	70.40
	Aromatics			
14	Lemon grass	224	4527	202.10
15	E-citridora	516	2265	43.90

Source : ADH (Hort. Dept. Korba) , 2022-23

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	0	27	13
Feb. 2023	0	31	12
Mar. 2023	46.3	33	18
Apr. 2023	78.4	36	21
May. 2023	37.7	38	23
Jun. 2023	173.4	38	26
July. 2023	182.7	31	25
Aug. 2023	194.4	30	24
Sept. 2023	464.1	31	25
Oct. 2023	26.7	31	22
Nov. 2023	26.7	29	18
Dec. 2023	30.7	25	15

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	396313	27.42 MT.	7 lit/ 4.2 lit
Buffalo	53986	16.062 MT.	5.8 / 4.9 liter
Sheep			
Crossbred/ Indigenous	42	0.00 MT wool	0.00 kg
Goats	190982	2.37 MT	15 kg
Pigs Crossbred/ Indigenous	1626	21.40/ 1.68 MT	30 Kg
Rabbits	625		
Poultry			

Hens	311667	143.37 Lakh eggs	<i>Indigenous</i> 32eggs/ bird/yr <i>Crossbred</i> 82eggs/ bird/yr Commercial 92 eggs/bird/yr
Turkey and others	4186	0.443 MT	1.42 Kg
Category	Area	Production	Productivity
Fish	3680 (ha)	17690 MT	2.00 Q/ ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Katghora	Katghora	Abhaypur, Singhali, Ranjana, Kasaipali, Jurali, Dhanras, Vijaypur, Gopalpur, Raal	Paddy, Maize Vegetables Pulses	• Low yield of major cereals and pulses. • Low seed replacement rate of pulses. • Non descript breed of goat. • Malnutrition in farm families.	• Enhancing productivity of maize, paddy, during <i>kharif</i>, oilseeds and pulses during <i>rabi</i> season. • Diversification s of existing cropping systems by promoting cultivation of vegetables and fruit plants such as mango (Langra, Amrapali Dasheri etc.), Guava (L-49) and conservation of genetic resources of mango. • Improving the indigenous breeds of goat by breeding and management. • Promotion of Poshan badi for each farm family.
2	Korba	Korba	Lampahad, Korba, Kaodwari, Sonpuri, Rajgamaar, Balco	Paddy, Maize Vegetables Pulses , oilseed crops , fisheries, Mushroom production	• Low yield of major cereals and pulses. • Low seed replacement rate of pulses. • Non descript	• Enhancing productivity of maize, paddy, during <i>kharif</i>, wheat and lathyrus during

					breed of goat. • Malnutrition in farm families.	<i>rabi</i> season. • Diversification s of existing cropping systems by promoting cultivation of vegetables and fruit plants . • Promotion of Poshan badi for each farm family. • Improving the indigenous breeds of goat by breeding and management.
3	Kartala	Kartala	Kartala	Paddy, Maize Vegetables Pulses , oilseed crops, poultry & Goatry	• Low yield of major cereals and pulses. • Low seed replacement rate of pulses. • Non descript breed of goat. • Malnutrition in farm families.	• Enhancing productivity of maize, paddy, during <i>kharif</i> , wheat and lathyrus during <i>rabi</i> season. • Diversification s of existing cropping systems by promoting cultivation of vegetables and fruit plants such as mango • Improving the indigenous breeds of goat by breeding and management. • Promotion of low cost incubator for poultry. • Promotion of Poshan badi for each farm family.
4	Pali	Pali	Pali, Kapot,	Paddy, Maize	• Low yield of	• Enhancing

			Mudapaar, Tilahiya, Potapani	Vegetables Pulses, oilseed crops	major cereals and pulses. • Low seed replacement rate of pulses. • Non descript breed of goat. • Malnutrition in farm families.	productivity of maize, paddy, during <i>kharif</i>, wheat and lathyrus during <i>rabi</i> season. • Diversification s of existing cropping systems by promoting cultivation of vegetables and fruit plants such as mango (Langra, Amrapali Dasheri etc.), Guava (L-49) and conservation of genetic resources of mango. • Improving the indigenous breeds of goat by breeding and management. • Promotion of Poshan badi for each farm family.
5	Pondi-uproda	Pondi-uproda	Lakhanpur, Ranimaar, Lainga, Rampur, Sharma, Betalo, pasan, Kashaniya, Bartarai, Bala, Matin, Lepra, Tanakhar, Jatga	Paddy, Maize Vegetables Pulses, oilseed crops	• Low yield of major cereals and pulses. • Low seed replacement rate of pulses. • Non descript breed of goat. Malnutrition in farm families.	• Enhancing productivity of maize, paddy, during <i>kharif</i>, oilseed and pulses during <i>rabi</i> season. • Diversification s of existing cropping systems by promoting cultivation of vegetables and fruit plants such as mango, guava, papaya, citrus

						fruits. - Improving the indigenous breeds of goat by breeding and management. - Promotion of Poshan badi for each farm family.

Priority / Thrust areas

S. No.	Particulars
1.	Enhancing productivity of maize, paddy, Til, pigeon pea during <i>kharif</i> , Mustard, wheat during <i>rabi</i> and greengram during <i>zaid</i> season
2.	Increasing the seed replacement rate through promoting seed production techniques of self pollinated crops
3.	Diversifications of existing cropping systems by promoting cultivation of vegetables and fruit plants such as mango (Langra, Kesar, Dasher, etc.), and Guava (L-49, Allahabad Safeda) and conservation of genetic resources of mango
4.	Promotion dry land farming technologies with emphasis on water harvesting
5.	Improving the indigenous breeds of goat by breeding and management
6.	Empowerment of women through drudgery reduction in agriculture and animals husbandry, improvement in the nutrition, health, hygiene and by using improved agricultural implements
7.	Imparting vocational training to tribal youth for self-employment generation on fruit plant nursery raising, livestock production, agro processing of pulses , rice milling , Fruit preservation.
8.	Exploring possibilities of aqua culture in tribal belt of Korba
9.	Capacity building of rural youth in agri and allied vocations for self-employment and enterprise establishment.
10.	Varietal Assessment in cereal, pulses, oilseed , vegetable etc.

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
14	68	13	138

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2081	216	3191

Seed Production (Qtl.)	Planting material (Nos.)
260	15000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal assessment	Okra	Farmers gets poor yield due to YVMV and old variety	Assessment of HYV of Okra for Korba district	Demonstration on HYV of Bitter gourd				
2	Varietal assessment	Bottle gourd	Farmers gets poor yield due to infestation of disease like cercospora, downy mildew etc.	Assessment of HYV of Bottle gourd	Demonstration of management of Yellow mosaic disease (YMD) of black gram				
3	Pest Management	Rice	BPH causing serious losses in this area	Assessment of Chemical insecticide against Brown Plant Hopper in Rice.	Demonstration of HYV of Pigeon pea				
4	Integrated Pest Management	Maize	Fall Army worm in present most destructive pest of maize in distt. Korba, as a result of its attack plants remain stunted in growth and stem borer showed dead heart in early stages	Assessment of Fall Army Worm Management in Maize under IPM Module	Demonstration on HYV of Mustard				
5	Pest Management	Mustard	Yield loss due to Aphids	Assessment of Bio- insecticide against Mustard Aphids	Demonstration of Integrated nutrient management in Pigeon pea var. CG Arhar-1				
6	Income generation	Mushroom	Lack of knowledge of Mushroom cultivation	Assessment of oyster mushroom cultivation in Korba district of Chhattisgarh	Demonstration of Integrated Nutrient management in Mustard				
7	Income generation	Mushroom	lack of knowledge of milky mushroom cultivation technology	Assessment of milky mushroom cultivation in Korba district	Demonstration on Round the year cultivation of nutrient rich vegetables in Kitchen				

					Garden for farm family				
8	Varietal Assessment	Millets	Low productivity due to old variety.	Assessment of High yielding variety of kodo millet	Demonstration on Kusumi Lac production Technology in Kusum Plant				
9	Varietal Assessment	Linseed	Low productivity due to old variety.	Assessment of HYV of Linseed	Demonstration on Rangini Lac production Technology in Palas Plant				
10	Natural Farming	Rice	Low yield due to inadequate nutrient management	Assessment of Natural Farming Practices in Scented Rice	Demonstration on oyster mushroom (<i>P. florida</i>) cultivation technique in Korba District				
11	Nutrient Management	Blackgram	Low productivity due to less use of biofertilizer in black gram.	Assessment of use of bio-fertilizer to increase the productivity of Black gram	Demonstration on Pink oyster mushroom (<i>P. eous</i>) cultivation technique in Korba District				
12	Natural farming	Field pea	Low yield due to inadequate nutrient management	Assessment of Natural Farming Practices in Field pea	Demonstration on Fish based Integrated Farming System in Korba District				
13	Precision Farming	Fish	Semi intensive culture of fish by farmers thus getting less production	Assessment in of fish Production Biofloc Technique	Demonstration of composite fish farming to increase fish production				
14	Fish production and management	Fish	Low production due to slow growing fishes.	Assessment of Pangasius fish in pond culture system					

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic	Cereals	Oilseeds	Pulses	Commercial	Vegetables	Fruits	Flower	Plantation	Tuber	TOTAL

areas				Crops				crops	Crops	
Varietal assessment	1	1	0	0	2	0	0	0	0	3
Pest Management	1	1	0	0	0	0	0	0	0	2
Integrated Pest Management	1	0	0	0	0	0	0	0	0	1
Natural Farming	1	0	1	0	0	0	0	0	0	2
Nutrient management	0	0	1	0	0	0	0	0	0	1
Income generation	0	0	0	0	2	0	0	0	0	2
TOTAL	4	2	2	0	4	0	0	0	0	11

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Precision Farming	0	0	0	0	0	0	1	1
Fish production and management	0	0	0	0	0	0	1	1
TOTAL	0	0	0	0	0	0	2	2

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Okra	
Title of on farm trial	Assessment of HYV of Okra for Korba district	
Problem diagnosed	Farmers gets poor yield due to YVMV and old variety	
Farmers' Practices	private sector variety (Dhamini)	
Details of technologies selected for assessment	T ₁	private sector variety (Dhamini)
	T ₂	HYV of Okra var. Kashi Chaman (Resistant to YVMV and OLECV under field conditions ,Yield – 150-180q/ha
Source of technology	IIVR , Varanashi 2019	
Plot size	0.10 ha	
No. of farmers	5	
Total cost	12500	
Critical input	seed	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	No. of fruits/ plant, fruit length, yield q/ha,	

OFT-2

Crop / Enterprise	Bottle gourd	
Title of on farm trial	Assessment of HYV of Bottle gourd	
Problem diagnosed	Farmers gets poor yield due to infestation of disease like cercospora, downy mildew etc.	
Farmers' Practices	private sector variety (Dhamini)	
Details of technologies selected for assessment	T ₁	Local Variety
	T ₂	HYV of Bottle gourd var. Hy. Kashi Bahar (Resistant to Cercospora, Downy mildew, anthracnose under field conditions ,Yield – 500-550 q/ha
Source of technology	IIVR , Varanashi 2019	
Plot size	0.10 ha	
No. of farmers	5	
Total cost	12500	
Critical input	seed	

Performance indicators: (v) Growth and Yield attributes (vi) Technical- yield (q/ ha) (vii) Economic (viii) Social – Employment generation	No. of fruits/ plant, fruit length, yield q/ha,

OFT-3

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of Chemical insecticide against Brown Plant Hopper in Rice.	
Problem diagnosed	BPH causing serious losses in this area	
Farmers' Practices	Indiscriminate use of insecticide	
Details of technologies selected for assessment	T ₁	Application of Pymetrozine 50% WG @120 g/acre
	T ₂	
	T ₃	
Source of technology	OUAT, Bhuneshwar	
Plot size	0.200 ha	
No. of farmers	05	
Total cost	5000.00	
Critical input	Pymetrozine 50%	
Performance indicators: (ix) Growth and Yield attributes (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Insects Infestation per hill, Yield, B:C Ratio	

OFT-4

Crop / Enterprise	Maize	
Title of on farm trial	Assessment of Fall Army Worm Management in Maize under IPM Module	
Problem diagnosed	Fall Army worm in present most destructive pest of maize in distt. Korba, as a result of its attack plants remain stunted in growth and stem borer showed dead heart in early stages	
Farmers' Practices	Indiscriminate use of chemical insecticide, Lack of knowledge about IPM	
Details of technologies selected for assessment	T ₁	- Installation of pheromone trap for mass trapping(25 trap/ ha) - For management of 2nd and 3rd instars, application Emmamectin banzoate 5SG@ 200gm /ha Applying chlorantraniliprole 18. 5 SC @200 ml/ ha.
	T ₂	
	T ₃	
Source of technology	IGKV, Raipur	
Plot size	0.200	
No. of farmers	05	
Total cost	600.00	
Critical input	Pheromone trap, Lure, Emmamectin banzoate 5SG, chlorantraniliprole 18. 5 SC	
Performance indicators: (xiii) Growth and Yield attributes (xiv) Technical- yield (q/ ha) (xv) Economic (xvi) Social – Employment generation	No. of Larva / plant, No. of Damage plant /ha, Yield, B:C Ratio	

OFT-5

Crop / Enterprise	Mustard	
Title of on farm trial	Assessment of Bio- insecticide against Mustard Aphids	
Problem diagnosed	Yield loss due to Aphids	
Farmers' Practices	Indiscriminate use of insecticides	
Details of technologies selected for assessment	T ₁	Foliar spray of <i>Metarhizium anisopliae</i> 10 ml/ per li of water In 30 and 45 DAS
	T ₂	
	T ₃	
Source of technology	SBCL-BTCCARS 2018-19	

Plot size	0.200
No. of farmers	05
Total cost	2500
Critical input	<i>Metarhizum anisopliae</i>
Performance indicators: (xvii) Growth and Yield attributes (xviii) Technical- yield (q/ ha) (xix) Economic (xx) Social – Employment generation	Aphid population density/cm ² , yield, B: C ratio

OFT-6

Crop / Enterprise	Mushroom
Title of on farm trial	Assessment of milky mushroom cultivation in Korba district
Problem diagnosed	lack of knowledge of milky mushroom cultivation technology
Farmers' Practices	No practice of mushroom cultivation
Details of technologies selected for assessment	T ₁ No farmer practice
	T ₂ Milky mushroom cultivation technology
	T ₃ --
Source of technology	IGKV, Raipur
Plot size	No. of demo- 05
No. of farmers	05
Total cost	Rs. 20000/-
Critical input	Mushroom spawn, Cocopit cube, Fungicide
Performance indicators: (xxi) Growth and Yield attributes (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	No. of fruiting body/bed, Days of spawn run, Yield (Kg/bed), B:C Ratio

OFT -7

Crop / Enterprise	Mushroom
Title of on farm trial	Assessment of Paddy straw mushroom cultivation in Korba district
Problem diagnosed	lack of knowledge of different method of paddy straw mushroom cultivation technology
Farmers' Practices	T1- Paddy straw mushroom cultivation in bed method
	T2- Paddy straw mushroom cultivation in chopped paddy straw (Bed size- 5 kg) T3 -Paddy straw mushroom cultivation in spiral method (Bed size- 5 kg)
Source of technology	P.S.B., Vishva-Bharti, Sriniketan, W.B. 2014
Plot size	No. of demo- 05
No. of farmers	05
Total cost	Rs. 20000/-
Critical input	Mushroom spawn, Gram flour, Jute rope
Performance indicators: (xxv) Growth and Yield attributes (xxvi) Technical- yield (q/ ha) (xxvii) Economic (xxviii) Social – Employment generation	No. of fruiting body/bed, Days of spawn run, Yield (Kg/bed), B:C Ratio

OFT -8

Crop / Enterprise	Kodo Millet
Title of on farm trial	Assessment of High yielding variety of kodo millet
Problem diagnosed	Low productivity due to old variety.
Farmers' Practices	T1- Cultivation of old variety (Indira Kodo -1)
	T2- Use of HYV Jawahar Kodo - 137

Source of technology	JNKVV, Jabalpur
Plot size	0.4 ha
No. of farmers	05
Total cost	Rs. 5000/-
Critical input	Seed
Performance indicators: (xxix) Growth and Yield attributes (xxx) Technical- yield (q/ ha) (xxxi) Economic (xxxii) Social – Employment generation	No. of tillers/plant, Yield (q/ha) and B:C Ratio

OFT -9

Crop / Enterprise	Linseed	
Title of on farm trial	Assessment of HYV of Linseed	
Problem diagnosed	Low productivity due to old variety.	
Farmers' Practices	T1- Use of Local variety (RLC -81)	
	T2- HYV of Linseed var . RLC-148 (Maturity- 110-120 days, Resistant to wilt powdery mildew, yield- 9-11.0 q/ha)	
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	05	
Total cost	Rs. 10000/-	
Critical input	Seed	
Performance indicators: (xxxiii) Growth and Yield attributes (xxxiv) Technical- yield (q/ ha) (xxxv) Economic (xxxvi) Social – Employment generation	No. of seed /capsule, No. of capsule/ plant, Yield (q/ha) and B:C Ratio	

OFT-10

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of Natural farming practices in Scented Rice	
Problem diagnosed	Low yield due to inadequate nutrient management	
Farmers' Practices	Use of imbalance fertilizer application	
Details of technologies selected for assessment	T ₁	Use of imbalance fertilizer application
	T ₂	Seed treatment with Beejamrit + Ghanjeevamrit @ 250Kg/ha + Jeevamrit @ 500 lit /ha irrigation twice in a month
	T ₃	Rows can be added if necessary
Source of technology	IGKV, Raipur	
Plot size	2000 sq.m.	
No. of farmers	05	
Total cost	5000/-	
Critical input	Flour, Jaggery	
Performance indicators: (xxxvii) Growth and Yield attributes (xxxviii) Technical- yield (q/ ha) (xxxix) Economic (xl) Social – Employment generation	No. of tillers/m ² B:C ratio	

OFT-11

Crop / Enterprise	Black gram	
Title of on farm trial	Assessment of use of biofertilizer to increase the productivity of Black gram	
Problem diagnosed	Low productivity due to less use of biofertilizer in black gram.	
Farmers' Practices	Imbalance Fertilizer Application	

Details of technologies selected for assessment	T ₁ Imbalance Fertilizer Application
	T ₂ RDF (20:40:20 NPKkg/ha)+ seed treatment with Rhizobium @ 5-10 gm/kg seed+ PSB @5-10gm/kg seed
	T ₃ Rows can be added if necessary
Source of technology	IGKV, Raipur
Plot size	2000 sq.m.
No. of farmers	05
Total cost	5000/-
Critical input	Seed, Bio-fertilizer
Performance indicators: (xli) Growth and Yield attributes (xlii) Technical- yield (q/ ha) (xliii) Economic (xliv) Social – Employment generation	No.of pod/plant, seeds/ pods B;C ratio

OFT-12

Crop / Enterprise	Field pea
Title of on farm trial	Assessment of different natural farming practices in Field pea
Problem diagnosed	Low yield due to inadequate nutrient management
Farmers' Practices	Imbalance Fertilizer Application
Details of technologies selected for assessment	T ₁ Imbalance Fertilizer Application
	T ₂ Seed treatment with Beejamrit + Ghanjeevamrit @ 250Kg/ha + Jeevamrit @ 500 lit /ha irrigation twice in a month
	T ₃ Rows can be added if necessary
Source of technology	IGKV,Raipur
Plot size	2000sq.m.
No. of farmers	05
Total cost	5000/-
Critical input	Seeds, Gram flour, Jaggery
Performance indicators: (xlv) Growth and Yield attributes (xlvi) Technical- yield (q/ ha) (xlvii) Economic (xlviii) Social – Employment generation	No of pods/ plant, seeds/pod B:C ratio

OFT-13

Crop / Enterprise	FISH
Title of on farm trial	Assessment in of fish Production Biofloc Technology
Problem diagnosed	Semi intensive culture of fish by farmers thus getting less production.
Farmers' Practices	Fish culture in Farmers Pond
Details of technologies selectedfor assessment	T ₂ Highly précised technology with fitting of Aerators, Monitoring of floc density, pH, & Ammonia
Source of technology	NFDB, Hyderabad. 2017
Plot size	10000 cu m
No. of farmers	04
Total cost	5000/tank.
Critical input	Fish (Pangasius)
Performance indicators: (xlix) Technical- yield (q/ ha) (l) Economic (li) Social – Employment generation	Length of fish (cm) , wt. of fish (g), Yield (q / tank)

OFT-14

Crop / Enterprise	FISH

Title of on farm trial	Assessment of Pangasius fish in pond culture system.	
Problem diagnosed	Demand of fresh fish is increasing by fish eaters day by day thus to satisfy this demand catfish production is only the solution.	
Farmers' Practices	Farmers are stocking Catla, Rohu and Mrigal in their ponds	
Details of technologies selected for assessment	T ₂	Stocking Pangasius in the ponds @ 25000 FI/ha
Source of technology	NFDB, Hyderabad. 2017	
Plot size	0.5 ha	
No. of farmers	04	
Total cost	20000/-	
Critical input	Pangasius Fish	
Performance indicators: (lii) Technical- yield (q/ ha) (liii) Economic (liv) Social – Employment generation	Length of fish (cm) , wt. of fish (g), Yield (q / tank)	

Detailed Information about OFT:

OFT:-1

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of HYV of Okra for Korba district
Year/Season:	2024/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Farmers gets poor yield due to YVMV and old variety
Thematic area:	Varietal Assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	private sector variety (Dhamini)
T2 –Recommended Practice-	HYV of Okra var. Kashi Chaman (Resistant to YVMV and OLECV under field conditions ,Yield – 150-180q/ha
Date of sowing:	July 24
Date of harvesting:	Sept-oct 24
Source of technology:	IIVR , Varanasi
Characteristics of technology:	Okra Variety Kashi Chaman in newly release variety resistant to YVMV and OLECV under field conditions
Name of Crop/Enterprises:	Okra
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT:-2

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of HYV of Bottle gourd
Year/Season:	2024/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Farmers gets poor yield due to infestation of disease like cercospora,

	downy mildew etc.
Thematic area:	Varietal Assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local Variety
T2 –Recommended Practice-	HYV of Bottle gourd var. Hy. Kashi Bahar (Resistant to Cercospora, Downy mildew, anthracnose under field conditions ,Yield – 500-550 q/ha
Date of sowing:	July 24
Date of harvesting:	Sept-oct 24
Source of technology:	IIVR , Varanasi 2019
Characteristics of technology:	Bottle gourd Variety Kashi Bahar in newly release variety resistant to Cercospora, Downy mildew, anthracnose under field conditions
Name of Crop/Enterprises:	Bottle gourd
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT -3

Name of Discipline	Entomology
Title of on-farm trial:	Assessment of Chemical insecticide against Brown Plant Hopper in Rice.
Year/Season:	Kharif 2024
Farming situation:	Rain fed
Problem diagnosis:	BPH causing serious losses in this area
Thematic area:	Pest Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement: Assessment	
T1 – Farmers Practice-	Indiscriminate use of insecticide
T2 –Recommended Practice-	Application of Pymetrozine 50% WG @120 g/acre
T3- Recommended Practice-	
Date of sowing:	June, 2024
Date of harvesting:	Nov. 2024
Source of technology:	OUAT, Bhuneshwar, Orissa
Characteristics of technology:	
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-4

Name of Discipline	Entomology
Title of on-farm trial:	Assessment of Fall Army Worm Management in Maize under IPM Module
Year/Season:	Kharif 2024
Farming situation:	Rain fed
Problem diagnosis:	Fall Army worm in present most destructive pest of maize in distt. Korba, as a result of its attack plants remain stunted in growth and stem borer showed dead heart in early stages
Thematic area:	IPM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement: Assessment	
T1 – Farmers Practice-	Indiscriminate use of chemical insecticide, Lack of knowledge about IPM
T2 –Recommended Practice-	- Installation of pheromone trap for mass trapping(25 trap/ha) - For management of 2nd and 3rd instars, application Emamectin benzoate 5SG@ 200gm /ha - Applying chlorantraniliprole 18.5 SC @200 ml/ ha.
T3- Recommended Practice-	
Date of sowing:	July 2024
Date of harvesting:	Oct.2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-5

Name of Discipline	Entomology
Title of on-farm trial:	Assessment of Bio- insecticide against Mustard Aphids
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Yield loss due to Aphids
Thematic area:	Pest Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of insecticide

T2 –Recommended Practice-	Foliar spray of <i>Metarhizum anisopliae</i> 10 ml/ per li of water In 30 and 45 DAS
T3- Recommended Practice-	
Date of sowing:	Oct.2024
Date of harvesting:	Feb. 2025
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	Foliar spray of <i>Metarhizum anisopliae</i> 10 ml/ per li of water In 30 and 45 DAS
Recommendations for Deptt. Personnel	
Feedback	

OFT: 6

Name of Discipline	Plant Pathology
Title of on-farm trial: 01	Assessment of Paddy straw mushroom cultivation in Korba district
Year/Season:	2024/Kharif
Farming situation:	--
Problem diagnosis:	lack of knowledge of different method of paddy straw mushroom cultivation
Thematic area:	Income generation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Paddy straw mushroom cultivation in bed method
T2 –Recommended Practice-	T2- Paddy straw mushroom cultivation in chopped paddystraw (Bed size- 5 kg)
T3- Recommended Practice-	T3 -Paddy straw mushroom cultivation in spiral method (Bed size- 5 kg)
Date of sowing:	16/06/2024
Date of harvesting:	30/09/2024
Source of technology:	P.S.B., Vishva-Bharti, Sriniketan, W.B. 2014
Characteristics of technology:	Spawn running period 10-15 days,cropping requires an optimum temperature of 30-35 degree celcius and humidity 85-90%, A minimum of 18 to 22 litre/water bed is sprayed to maintain the moisture level of 65-70%
Name of Crop/Enterprises:	Paddystraw mushroom
Recommendations for Farmers	Mushrooms canbe harvested in 3 flushes after which the entire cycle is repeated
Recommendations for Deptt. Personnel	--
Feedback	--

OFT:-7

Name of Discipline	Plant Pathology
Title of on-farm trial: 02	Assessment of milky mushroom cultivation in Korba district
Year/Season:	2024/Kharif
Farming situation:	--
Problem diagnosis:	lack of knowledge of milky mushroom cultivation technology
Thematic area:	Income generation
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No farmer practice
T2 –Recommended Practice-	Milky mushroom cultivation technology
T3- Recommended Practice-	--
Date of sowing:	01/05/2024
Date of harvesting:	31/06/2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Spawn running period 24-28 days, casing essential for fructification, cropping requires an optimum temperature of 35-38 degree celcius and humidity 85-90%, diffused light and ventilation
Name of Crop/Enterprises:	Milky mushroom
Recommendations for Farmers	Mushrooms canbe harvested in 2 flushes after which the entire cycle is repeated
Recommendations for Deptt. Personnel	--
Feedback	--

OFT:-8

Name of Discipline	Agronomy
Title of on-farm trial: 02	Assessment of High yielding variety of kodo millet
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low productivity due to old variety.
Thematic area:	Varietal Assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Cultivation of old variety (Indira Kodo -1)
T2 –Recommended Practice-	T2 - Use of HYV Jawahar Kodo - 137
T3- Recommended Practice-	--
Date of sowing:	July
Date of harvesting:	sept- oct
Source of technology:	JNKVV, Jabalpur
Characteristics of technology:	

Name of Crop/Enterprises:	Kodo Millets
Recommendations for Farmers	
Recommendations for Deptt. Personnel	--
Feedback	--

OFT:-9

Name of Discipline	Agronomy
Title of on-farm trial: 02	Assessment of HYV of Linseed
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low productivity due to old variety.
Thematic area:	Varietal Assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Use of Local variety (RLC -81)
T2 –Recommended Practice-	T2 - HYV of Linseed var . RLC-148 (Maturity- 110-120 days, Resistant to wilt powdery mildew, yield- 9-11.0 q/ha)
T3- Recommended Practice-	--
Date of sowing:	oct
Date of harvesting:	Jan-Feb
Source of technology:	IGKV, Raipur
Characteristics of technology:	Linseed var . RLC-148 (Maturity- 110-120 days, Resistant to wilt powdery mildew, yield- 9-11.0 q/ha)
Name of Crop/Enterprises:	Linseed
Recommendations for Farmers	
Recommendations for Deptt. Personnel	--
Feedback	--

OFT: 10

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Natural Farming Practices in Scented Rice
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to inadequate nutrient management
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of imbalance fertilizer application
T2 –Recommended Practice-	Seed treatment with Beejamrit+ Ghanajeevamrit @250 kg /ha+

	Jeevamrit @500 lit./ha twice in a month
T3- Recommended Practice-	-
Date of sowing:	July 2024
Date of harvesting:	Nov. 2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	In natural farming there is no ploughing, no tilling of soil and no fertilizers, no weeding is done
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 11

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of use of bio-fertilizer to increase the productivity of Black gram
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low productivity due to less use of biofertilizer in black gram.
Thematic area:	Nutrient Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance Fertilizer Application
T2 –Recommended Practice-	RDF (25:50:20 NPK kg/ha) + seed treatment with Rhizobium culture @ 5-10 gm/ Kg seed + PSB culture @ 5-10gm / kg seed
T3- Recommended Practice-	-
Date of sowing:	July 2024
Date of harvesting:	Oct.2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Rhizobium bio-fertilizer is a substance that contain living microorganisms and is applied to plant surface,seeds or soil.PSB helps in conversion of the insoluble form into soluble .
Name of Crop/Enterprises:	Blackgram
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 12

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Natural Farming Practices in Field pea
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to inadequate nutrient management
Thematic area:	Natural Farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
T1 – Farmers Practice-	Use of imbalance fertilizer application
T2 –Recommended Practice-	Seed treatment with Beejamrit+ Ghanajeevamrit @250 kg /ha+ Jeevamrit @500 lit./ha twice in a month
T3- Recommended Practice-	-
Date of sowing:	Nov. 2024
Date of harvesting:	Feb. 2025
Source of technology:	IGKV, Raipur
Characteristics of technology:	In natural farming there is no ploughing, no tilling of soil and no fertilizers, no weeding is done
Name of Crop/Enterprises:	Field pea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 13

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment in of fish Production Biofloc Technique
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Semi intensive culture of fish by farmers thus getting less production
Thematic area:	
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Fish culture in Farmers Pond
T2 –Recommended Practice-	Highly précised technology with fitting of Aerators, Monitoring of floc density, pH, & Ammonia
Date of sowing:	
Date of harvesting:	
Source of technology:	NFDB, Hyderabad. 2017
Characteristics of technology:	Pangasius fish should be stocked in the tanks of biofloc and tank would be regularly monitored for pH and Ammonia generated.
Name of Crop/Enterprises:	Fish

Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT: 14

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of Pangasius fish in pond culture system
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low production due to slow growing fishes.
Thematic area:	Fish production and management
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers are stocking Catla, Rohu and Mrigal in their ponds
T2 –Recommended Practice-	Stocking Pangasius in the ponds @ 25000 FI/ha
Date of sowing:	
Date of harvesting:	
Source of technology:	NFDB, Hyderabad. 2017
Characteristics of technology:	Pangasius is a catfish and able to survive in drastic conditions and grow very fast thus very economic to farmers
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT: Nil

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT: Nil

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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 Dept. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Bitter gourd	Varietal evaluation	Demonstration on HYV of Bitter gourd	Bitter gourd var. Kashi Pratishtha	Kharif 2024	1 ha	10	No. of fruits /plant, Yield (q/ha)
2	Black gram	Pest Management	Demonstration of management of Yellow mosaic disease (YMD) of black gram	Seed Treatment with Imidacloprid 17.8 @5ml/kg and 2 spray Imidacloprid 17.8 SL @ 0.5ml /li (30 and 45 DAS	Kharif 2024	5.00	13	No. of White fly, Ten randomly selected plant at three leaves/Plant (Top, middle and bottom), Disease Incidence (%),yield, B: C ratio
3	Pigeon pea	Varietal Demonstration	Demonstration of HYV of Pigeon pea	HYV of Pigeon pea var. CG Arhar -1	Kharif 2024	5 ha	13	No. of pods / plants, yield (q/ha), Net returns, BC ratio
4	Mustard	Varietal Demonstration	Demonstration on HYV of Mustard	HYV of Mustard var. DRMRIJ 31	Rabi 2024-25	5 ha	13	No. of Siliqua / plant, No. of seeds /Siliqua, yield (q/ha)
5	Pigeon pea	Nutrient Management	Demonstration of Integrated nutrient management in Pigeon pea var. CG Arhar-1	Bio-fertilizer	Kharif/2024	5.00	13	No. of pod/plant, No. of seed/pod,Yield & B:C ratio
6	Mustard	Nutrient Management	Demonstration of Integrated Nutrient management in Mustard	Biofertilizer & seed	Rabi/ 2024-25	5.00	13	No. of siliqua/plant, yield, and B;C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	03	Dec.-Jan	100-120
2	Farmers Training	8	July, Aug. Nav. Dec.	220-250
3	Media coverage	2		Mass
4	Training for extension functionaries	2		80-100

Details of FLD on Enterprises

Farm Implements- **Nil**

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
0	0	0	0	0	0	0	0	0

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Demonstration on Round the year cultivation of nutrient rich vegetables in Kitchen Garden for farm family	Kitchen garden	10	10 Nos.	Kitchen garden	Production per unit (250 sq.m), consumption / capita, B:C ratio		
Demonstration on Kusumi Lac production Technology in Kusum Plant	Kusmi lac	10	10 Nos.	Brood lac, Ethofenprox 10EC or Indoxacarb 14.5 SC or Spinosad 45 SC and Carbendazim	No. of Predator/m, Infestation of lac , yield, B: C ratio		
Demonstration on Rangini Lac production Technology in Palas Plant	Rangini Lac	15	15 Nos.	Brood lac , Ethofenprox 10EC or Indoxacarb 14.5 SC or Spinosad 45 SC and Carbendazim	No. of Predator/m, Infestation of lac , yield, B: C ratio		
Demonstration on oyster mushroom (<i>P. florida</i>) cultivation technique in Korba District	<i>Pleurotus florida</i>	10	10	Mushroom spawn, Fungicide, Formaldehyde Solution	No. of fruiting body/bed, Days of spawn run, Yield (Kg/bed), B:C Ratio		
Demonstration on Pink oyster	<i>Pleurotus eous</i>	10	10	Mushroom spawn,	No. of fruiting body/bed, Days of		

mushroom (<i>P. eous</i>) cultivation technique in Korba District				Fungicide, Formaldehyde Solution	spawn run,Yield (Kg/bed), B:C Ratio		
Demonstration on Fish based Integrated Farming System in Korba District	Fish spp. & poultry or Goatry	04	04	Fingerling of fishes	Growth of fish (Length and weight) Yield of fish Kg/ha. & Yield of Poultry/ Goatry		
Demonstration of composite fish farming to increase fish production	Catla, Rohu and Common carp	04	04	Common carp fingerling	Length of fish(Cm) Weight of fish (gm)and Yield of fish (q/ha)		

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Pigeon pea	Crop Production	HYV, Line Sowing, Weed Magagement, IPM	Seed, Weedicide, Insectcide Fungicide	Kharif 2024	20	50	No. of pods/plant, Height, yield q/ha
2	Black gram	Crop Production	HYV, Line Sowing, Weed Magagement, IPM	Seed, Weedicide, Insectcide Fungicide	Kharif 2024	20	50	No. of pods/plant, yield q/ha
3	Niger	Crop Production	HYV, Line Sowing, IPM	Seed, Insectcide Fungicide	Kharif 2024	20	50	
5	Mustard	Crop Production	HYV, Line Sowing, IPM	Seed, , Insectcide Fungicide	Rabi 2024	20	50	No. of Siliqua / plant, No. of seeds /Siliqua, yield (q/ha)

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	Oct., Nov,Dec.2024 & Jan. 2025	150-200
2	Farmers Training	8	June 2024 to Feb. 2025	220-250
3	Media coverage	2		Mass
4	Training for extension functionaries	1	Dec. 2025	20-25

Training (Including the sponsored and FLD training programmes):
A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed	1	1							30

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Management									
Resource Conservation Technologies	1	1							30
Integrated Farming	1	1							30
Water management	2	2							60
Seed production	1	1							30
Integrated Crop Management	2	1							60
Total	8								240
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	1	1							30
Protective cultivation (Green Houses, Shade Net etc.)	1	1							30
Total	2	2							60
b) Fruits									
Management of young plants/orchards	2	2							60
Total	2	2							60
c) Ornamental Plants									
Total									
d) Plantation crops									
Total									
e) Tuber crops	2	2							60
Total	2	2							60
f) Spices									
Production and Management technology	1	1							30
Total	1	1							30
g) Medicinal and Aromatic Plants									
Production and management technology	1	1							30
Total	1	1							30
Grand total (Horticulture)	8	8							240
III Soil Health and Fertility Management									
Soil fertility management	1							30	
Soil and Water Conservation	1							28	
Integrated Nutrient Management	1							28	
Production and use of organic inputs	1							35	

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female		Total	Male	Female	Total
Management of Problematic soils	1								30
Micro nutrient deficiency in crops	1								38
Nutrient Use Efficiency	1								28
Soil and Water Testing	1								28
Total	8								245
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Value addition	03	02				15		15	30
Income generation activities for empowerment of rural Women	05	05							150
Location specific drudgery reduction technologies									
Women and child care									
Total	8								180
VI Agril. Engineering									
Total									
VII Plant Protection									
Integrated Pest	5	1							150

[illegible]

[illegible]

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	1							30
Resource Conservation Technologies	1	1							30
Cropping Systems	1	1							30
Crop Diversification	1	1							30
Integrated Farming	1	1							30
Water management	1	1							30
Seed production	1	1							30
Nursery management	1	1							30
Integrated Crop Management	1	1							30
Fodder production	1	1							30
Production of	1	1							30

rearing									
TOTAL									
(C) Extension Personnel									
TOTAL									

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

[illegible]

Protection										
Apr- June	Farmers & Farm women	Integrated Pest Management	2							60
July- Sept	Farmers & Farm women	Integrated Disease Management	4							120
Oct-Dec	Farmers & Farm women	Bio-control of pests and diseases	1							30
Jan- March	Farmers & Farm women	Lac Cultivation	1							30

	Women			
Agriculture Extension (Capacity Building and Group Dynamics)				

Soil Science										
Apr- June	F & FW	Soil testing	1							32
July- Sept	F & FW	Bio-fertilizer production	1							31
Oct-Dec	F & FW	Soil Health campain	1							34
Jan- March	F & FW	Integrated nutrient Management	1							32

2. Off Campus

[illegible]

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Home Science										
Plant Protection										
Apr- June	F& FW	Integrated Pest Management	5							150
July- Sept	F& FW	Integrated Disease Management	2							60
Oct-Dec	F& FW	Bio-control of pests and diseases	1							30
Jan- March	F& FW	Production of bio control agents and bio pesticides	1							30
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
April	Farmers & Farm women	Soil Health Campain	2							32
May	Farmers & Farm women	Soil testing	2							30
June	Farmers & Farm women	Soil testing	2							35
July	Farmers & Farm women	Integrated Nutrient Management	5							28
Sept	Farmers & Farm women	Nutrient management	3							30
Oct	Farmers & Farm women	Bio-fertilizer production	2							33
Nov	Farmers & Farm women	Nutrient management in Rabi crops	2							30
Dec	Farmers & Farm women	Nutrient management in Rabi crops	2							32

[illegible]

[illegible]

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
May	Extension Functionaries	IPM in vegetable crops	2							30
Livestock production										
Home Science										
Plant Protection										
July	Extension Functionaries	IPM in Kharif Crop	1							30
Sept	Extension Functionaries	IPM in Rabi Crop	1							30
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science	Farmers & Farm women	Organic Farming	6							28

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/RY/EF	No. of courses	No. of participants							Sponsor ing agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Soil Health campain	Soil Health	2		1								Ambuja Cement Foundation
2													

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of	Farmers	Extension Officials	Total

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	Indira aerobic-1	250
OILSEEDS	Linseed	RLC-148	10
PULSES	Pigeon pea	Rajeev lochan	06
VEGETABLES	Elephant foot yam	Gajendra	20
	Turmeric	Suranjana	10
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango	Dasahari	2000
	Guava	L-49	2000
	Citrus	Kajgi and seed less	1000
SPICES			
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
	Jack fruit	Seeded	10000
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				

1	Vermicompost	<i>Eisenia fetida</i>		1200
2	NADEP			
3				1800
BIO PESTICIDES				
1	Dasparni arkl			200 liter
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg/ Liter
Cattle	Milk	Sahival	-	5000
	Calf	Sahival	6	
SHEEP AND GOAT	Goat	Barbari	6	
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published KVK News Letter

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Production technologies of different cereal, pulses , oilseed , vegetable crops
2	Rural Youth	Income generation
3	In-service personnel	Insect –pest and diseases management of different cereal, pulses , oilseed , vegetable crops
4	methodology for identifying OFTs/FLDs	IPM, NM, TIK, VA , NF
5	Matrix ranking	II

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Ranjana	katghora	20
2	Jawali	Katghora	17
3	Kapubahra	Pondi-uproda	8
4	Sharma	Korba	40

1. No. of farm families selected per village : 20

2. No. of survey/PRA to be conducted: 1

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2016-17

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Mini Soil testing Kit	02	working
2	Distilled Water Unit	02	working
3	N Distillation Unit	01	working
4	Flame Photometer	01	working
5	EC meter	01	working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	175	600	50	
Water Samples	25	25	20	
Total	200	625	70	

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
FPO	Demonstration and Training
SHG's	Demonstration and Training
Agriculture dept	Demonstration and Training
Horticulture dept	Demonstration and Training

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
Training	Farmers Training

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
NHM	Seed production

Action plan for Flagship programmes implemented at KVK
(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Natural farming	3	
Bamboo Mission	3	

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 600 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	CG sugandhit bhog	Yield performance	600
		indira barani dhan1		
		Danteshwari		
		IGKVR-1244		
		Jaldubi		
		trambe chhattisgarh		
		Samleshwari		
		IGKVR-1		
		Chhattisgarh dhan 1919		
		bamleshwari		
		CG shankar dhan -2		
		CG barani dhan-2		
		Zinko rice MS		
		CG zink rice 1		
		karma masuri		
		indira erobic -1		
		indira sugandhit dhan-1		
		mahamaya		
		IGKVR-2(Durgeshwari)		
		purnima		
		Bastar dhan -1		
		CG jawaphool trambe		
		chandrahasini		
		Tarunbhog selection-1		
		Vishnu bhoj seclction -1		
		CG madhuraj-55		
		trambe CG vishnubhog mutant		
		CG Zink rice -2		

		Protozin			
		vikram TCR safari-17			
		Jeera phool			
		trambe CG Dubraj mutant -1			
		Dubraj selection			
		CG devbhog			
		CG sugandhit tejasvi			
Linseed	Rabi	RLC-167		Yield potential	300
		RLC -133			
		Deepika			
		Kartika			
		RLC-143			
		RLC-148			
		RLC- 167			
		Kiran			
		RLC- 164			
		RLC- 153			
		Indira Alsí			

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Mother Orchard unit	Citrus, Mango , Guava	10000	5000 plant
Lac Unit	Samiyalata, Kusumi lac	1500	25 kg/ year
Agrometreology Unit	Weather station established (Automatic , Manual)	2000	
Vermicompost Unit	Vermi-compost production (10 bed)	500	300 q
Mushroom unit	Spawn and fresh mushroom production	100	2.0 q
Semi Biofloc unit	Cultivation of Rohu, Catla & Mrigal	500	300 Kg
Fodder Unit	sorghum	4000	
Fruit Plant nursery unit	Fruit sapling production (Guava, Mango, other fruits)	1500	10000
Seed production unit	Cereal, oilseeds,pulses and vegetable production	45000	250q

KVK Korea

Year of sanction: 2008

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Er Kamlesh Kumar Singh (I/C SS& Head)	KVK Korea	9753137225	kvk.korea@igkv.ac.in

1.2 Staff Position on (31th Dec.2023)

[illegible]

	her / Comp. Operator									
14	Driver	Shri Shyam Kumar Rajwade	Driver		5200- 2020 0- 1900	30.03.20 13	30.03.20 13	9165190184	shyamrajwade963@gmail. com	
15	Driver	Shri Udit Narayan	Driver (Contract ual)		5200- 2020 0- 1900	21.10.20 22	21.10.20 22	6264732539	-	
16	Supporting staff	Shri Chandar Minj	Peon (Contract ual)		4750- 7440- 1300	26.10.20 22	26.10.20 22	8103381566	-	

1.3 Total land with KVK (in ha):...9.41.....

S. No.	Item	Area (ha)
1	Under Buildings	0.01
2	Under Demonstration Units	1.0
3	Under Crops	0.5
4	Orchard/Agro-forestry	1.0
5	Others (specify)	6.9
Total		9.41

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2011					
2	Farmers Hostel							
3	Staff Quarters (6)							
4	Demonstration Units (2)							
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2009	406224.00		Running but in poor condition
Motor Cycle 2	2010	44010.00	108914	Poor
Bolero(Jeep)	2018	774890.00	255924	Running
Other (Pl. specify)	2021	406319.00	15887	Running

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Laptop	2023	75308.00	Working
DSLR Camera	2023	41500.00	Working
TV 55mm	2023	34999.00	Working
Projector	2009	44387.00	Working
Samsung Tab	2018	18890.00	Working
Mini Projector	2019	43999.00	Working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	August 2024
2	

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	Rice – Fallow	Line sowing of rice with recommended dose of fertilizer.
2	Pigeonpea – Fallow	Proper Spacing with recommended dose of fertilizer. Line sowing of G.nut & seed Inoculate with Rhizobium culture.
3	Maize - fallow	Line sowing & weed mangt. By Atrazin 20gm./l. water PE.

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	Northern Hills	Korea district is situated at 23.38° N latitude and 82.38° E longitude with elevation 317 m above the mean sea level, comes under Northern hills agro-climatic zone of Chhattisgarh. The Korea district covers an area of 244800 hectare, broadly divided into 2 major river basins; Ganga basin and Mahanadi basin. The Ganga basin covers 60% of the area however the remaining area is drained by the Mahanadi basin. physiographically, the district is a part of Northern Hills and characterized by undulating topography with high hills, dissected plateaus, steep slopes and scarps. The Basaltic terrain is characterized by highly undulating topography with steep hills and plateau tops. Major soil types of study area are Entisols (Dand-gravelly), Inceptisols (Chawar-sandy loam), Alfisols (Gadar Chawar – clay loam) and Vertisols (Bahera – clayey).

SWOT Analysis of each Agro-Ecological Situations of district
AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	246420
Forest	46145
Waste Land	133000
Other than cultivated area	-
Cultivable waste and alkaline land	-
Pastures	32129
Bushes	-
Current Fallow	11948
Other Fallow	23198
Agricultural Land	198500
Area Sown	114636
Kharif	91279
Rabi	23357
Zaid	-
Cropping Intensity	86%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	18476
2	Well	5490
3	Tube well	2349
4	Ponds	1500
5	Others	6178

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Inceptisol (Matasi-Sandyloam)	Inceptisols are soils of relatively new origin and are characterized by having only the weakest appearance of horizons, or layers, produced by soil-forming factors.	214.48
2	Entisol (Bhata-gravelly)	Entisols are sandy mineral soils low in organic matter, natural fertility, and water-holding capacity. They have weak or no diagnostic subsurface layers and are well to excessively well drained	65.99
3	Alfisols (Dorsa-clayloam)	Alfisols are medium deep, well drained, clay-loam soils on gently sloping undulating to rolling plateau with moderate erosion hazards, usually occurring on the mid-slopes.	148.48
4			

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
1.	Rice	61288	135.071	2260
2.	Maize	14902	13.790	1850
3.	Pigeon Pea	12891	4.750	870
4.	Blackgram	9451	3.611	450
5.	Sesame	6446	0.318	335
6.	Horse gram	6098	0.037	440
7.	Minor Millets	2271	1.370	450
8.	Ground nut	1255	0.363	765

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	0	25.9	8.4
Feb. 2023	0	29.6	8.8
Mar. 2023	33.2	31.0	15.1
Apr. 2023	13.0	34.6	18.5
May. 2023	30.5	37.2	21.7
Jun. 2023	186.7	37.3	25.1
July. 2023	380.6	31.5	24.7
Aug. 2023	261.8	29.6	24.0
Sept. 2023	187.9	30.8	23.5
Oct. 2023	30.5	30.5	18.0
Nov. 2023	4.0	28.5	13.1
Dec. 2023	0.0	27.5	12.0

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	380862	 MT.	 kg
Buffalo	71564	MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>	30	 MT wool	 kg
Goats	209357	MT	 kg
Pigs <i>Crossbred/ Indigenous</i>	4213	---	---
Rabbits			
Poultry			
Hens	439310	 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Baikunthpur	Baikunthpur	Nagar	Paddy, Pigeon Pea, Blackgram, Greengram, Niger, Wheat, Chickpea, Linseed, Musterd, Poultry Farming, Goat, Farming Mushroom Cultivation	Lack of Knowledge, awareness & adoption of Integrated Crop Management, viz., intercropping, crop rotation, cropping sequences, cropping pattern. Adoption of Crop Diversification in upland rice fields into mid kharif pulses & oilseed, fruit orchard, forestry, fodder.	Introduction of improved variety of crop for higher production. Use of integrated nutrient management. Line sowing with chemical/mechanical weed management. Indigenous technology knowledge based nutrient management. Pest management by integrated pest management. Use of bio-pesticide in organic crop

						production. Plan OFT's, FLD's, Training Program, Framers Workshop/seminar, Diagnostic visit, Group discussion, Field day, Method Demonstrations, Exposure Visits, Farmers Scientist Interaction, SHG's Meet, Socio economic dynamics, Monthly Workshop with line departments as per the need assessment of District.
2	Baikunthpur	Baikunthpur	Dudhaniya	Paddy, Pigeon Pea, Blackgram, Greengram, Niger, Wheat, Chickpea, Linseed, Musterd, Poultry Farming, Goat, Farming Mushroom Cultivation	Lack of Knowledge, awareness & adoption of Integrated Crop Management, viz., intercropping, crop rotation, cropping sequences, cropping pattern. Adoption of Crop Diversification in upland rice fields into mid kharif pulses & oilseed, fruit orchard, forestry, fodder.	
3	Baikunthpur	Baikunthpur	Umjhar	Paddy, Pigeon Pea, Blackgram, Greengram, Niger, Wheat, Chickpea, Linseed, Musterd, Poultry Farming, Goat, Farming Mushroom Cultivation	Lack of Knowledge, awareness & adoption of Integrated Crop Management, viz., intercropping, crop rotation, cropping sequences, cropping pattern. Adoption of Crop Diversification in upland rice fields into mid kharif pulses & oilseed, fruit orchard, forestry, fodder.	

Priority / Thrust areas

S. No.	Particulars
1.	Introduction of improved variety of crop for higher production.

2.	Use of integrated nutrient management.
3.	Line sowing with chemical/mechanical weed management.
4.	Indigenous technology knowledge based nutrient management.
5.	Pest management by integrated pest management.
6.	Use of bio-pesticide in organic crop production.
7.	Plan OFT's, FLD's, Training Program, Framers Workshop/seminar, Diagnostic visit, Group discussion, Field day, Method Demonstrations, Exposure Visits, Farmers Scientist Interaction, SHG's Meet, Socio economic dynamics, Monthly Workshop with line departments as per the need assessment of District.

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT 1		FLD and CFLD 2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
12	46	12	46

Training 3		Extension Activities 4	
Number of Courses	Number of Participants	Number of activities	Number of participants
51	1360	396	7070

Seed Production (Qtl.)	Planting material (Nos.)
1	15000+

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1									
2									
3									
4									

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	0	0	0	1	1	0	0	0	1	03
Precision Farming	0	0	0	0	1	0	0	0	0	01
Integrated Weed Management	1	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	1	0	0	0	0	0	0	0
Organic Farming	1	0	0	0	0	0	0	0	0	0
Farm Mechanization	0	2	2	0	0	0	0	0	0	04
TOTAL	02	02	03	01	02	0	0	0	01	08

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Integrated Farming System	0	0	0	0	0	0	0	00
TOTAL	0	0	0	0	0	0	0	00

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Turmeric var. Roma	
Title of on farm trial	Assessment of Improved variety Turmeric (Roma) for higher tuber yield	
Problem diagnosed	Local variety, Poor crop Management Practices,	
Farmers' Practices	Locally Available Variety	
Details of technologies selectedfor assessment	T ₁	Locally Available Variety
	T ₂	Improved variety Roma
Source of technology	IGKV, Raipur	
Plot size	01 ha	
No. of farmers	03	
Total cost	62000.00	
Critical input	Improved variety & Fungicide	

Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Tuber yield (t/ha.)

OFT -2

Crop / Enterprise	Brinjal var. Pusa Shymala	
Title of on farm trial	Assessment of hybrid variety of Brinjal for Korea dist	
Problem diagnosed	Lack of suitable hybrid variety of Brinjal	
Farmers' Practices	Use of Locally available Variety,	
Details of technologies selectedfor assessment	T ₁	Use of Locally available Variety,
	T ₂	Brinjal var. Pusa Shymala
Source of technology	IGKV, Raipur	
Plot size	01 ha	
No. of farmers	03	
Total cost	10000.00	
Critical input	Hybrid variety Seedling, Insecticide	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No of Fruits/ Plant and Fruit yield (q/ha.)	

OFT 3

Crop / Enterprise	Cucumber var. Priya	
Title of on farm trial	Assessment of improved variety cucumber under shade net house	
Problem diagnosed	Farmer generally cultivate cucumber in open field due to which farmers get poor yield. During summer, water requirement of cucumber is high and chances of high insect pest infestation in open field	
Farmers' Practices	Cucumber cultivation in open field	
Details of technologies selectedfor assessment	T ₁	Cucumber cultivation in open field
	T ₂	Cucumber var. Priya cultivation under shade net house
Source of technology	IGKV, Raipur	
Plot size	01 ha	
No. of farmers	03	
Total cost	17000.00	
Critical input	Improved variety & Pesticides	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Fruit yield (q/ha.)	

OFT-4

Crop / Enterprise	Potato var. Kufri Khyati	
Title of on farm trial	Assessment of Improved Variety of Potato under upland rice field	
Problem diagnosed	Local variety, Poor crop management practices, poor yield	
Farmers' Practices	Local variety, Planting of Potato in flat bed with flood irrigation	
Details of technologies selectedfor assessment	T ₁	Local variety, Planting of Potato in flat bed with flood irrigation
	T ₂	Ridge & Furrow + Improved Variety
Source of technology	IGKV, Raipur	

Plot size	01 ha
No. of farmers	03
Total cost	27000.00
Critical input	Improved variety, Insecticide
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Tuber yield (t/ha.)

OFT 5

Crop / Enterprise	Pigeon pea	
Title of on farm trial	Assessment of Multi crop Planter for Planting of Pigeon Pea	
Problem diagnosed	Low yield due to Broadcasting and High seed rate	
Farmers' Practices	Broadcasting	
Details of technologies selectedfor assessment	T ₁	Broadcasting
	T ₂	Planting with Multicrop Planter
Source of technology	IGKV, Raipur	
Plot size	1 ha	
No. of farmers	03	
Total cost	13000.00	
Critical input	Seeds and Multicrop planter	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Seed yield (q/ha.)	

OFT 6

Crop / Enterprise	Black gram	
Title of on farm trial	Assessment of Seed Cum Fertilizer Drill on Line Sowing in Black Gram	
Problem diagnosed	Broadcasting and High Seed Rate	
Farmers' Practices	Broadcasting	
Details of technologies selectedfor assessment	T ₁	Broadcasting
	T ₂	Line sowing with seed cum fertilizer drill
Source of technology	IGKV, Raipur	
Plot size	1 ha	
No. of farmers	03	
Total cost	8000.00	
Critical input	Seeds & Seed Cum Fertilizer Drill	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Seed Yield (Q/Ha.)	

OFT 7

Crop / Enterprise	Mustard	
Title of on farm trial	Assessment of Multi Crop Planter for line sowing in Mustard	
Problem diagnosed	Low Yield Due to Broadcasting Practices	
Farmers' Practices	Broadcasting	
Details of technologies selectedfor assessment	T ₁	Broadcasting
	T ₂	Line sowing with Multicrop Planter
Source of technology	IGKV, Raipur	

Plot size	1 ha
No. of farmers	03
Total cost	9000.00
Critical input	Sowing with Multicrop Planter and DAP
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Seed yield (q/ha.)

OFT 8

Crop / Enterprise	Lentil	
Title of on farm trial	Assessment of Multicrop Planter For Planting of Lentil	
Problem diagnosed	Low Yield Due to Broadcasting Practices	
Farmers' Practices	Broadcasting	
Details of technologies selected for assessment	T ₁	Broadcasting
	T ₂	Line sowing with Multicrop Planter
Source of technology	IGKV, Raipur	
Plot size	1 ha	
No. of farmers	03	
Total cost	12000.00	
Critical input	Sowing with Multicrop Planter and DAP	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Seed yield (q/ha.)	

1	Enterprise	MILKY MUSHROOM (<i>Calocybe indica</i>)
2	Title of on-farm trial	Assessment of different casing materials for production of milky mushroom (<i>Calocybe indica</i>)
3	Problem diagnosed	Local variety, Poor crop management practices, poor yield
4	Farming situation	Irrigated
5	Production system and thematic area	Nutritional Security
6	Farmers' practices	FYM
7	Details of technologies selected for assessment/refinement Treatments	Vermicompost + Cocopeat 1:1
8	Source of technology	IGKV, Raipur
9	No. of animals	
10	No. of farmers	03
11	Critical input	Mushroom spawn, Poly bag
12	Cost of input	Rs.6000
13	Total cost	Rs.8000/-
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

1	Enterprise	Oyster mushroom
2	Title of on-farm trial	Assessment of different substrates for production of oyster mushroom
3	Problem diagnosed	Poor yield, Lack of knowledge regarding suitable oyster mushroom spp.
4	Farming situation	Irrigated
5	Production system and thematic area	Nutritional Security
6	Farmers' practices	White oyster mushroom (<i>Pleurotus florida</i>)
7	Details of technologies selected for assessment/refinement Treatments	T2-Oyster Mushroom (Sajar Kaju) T3-Pink Oyster Mushroom (<i>Pleurotus djamor</i>)
8	Source of technology	IGKV, Raipur
9	No. of animals	
10	No. of farmers	03
11	Critical input	Mushroom spawn, Poly bag
12	Cost of input	Rs 2000
13	Total cost	Rs 5000
14	Performance indicators/ Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

1	Enterprise	Black Gram var Indira Urd 1
2	Title of on-farm trial	Assessment of different chemical control measure for yellow vein mosaic disease of Black gram
3	Problem diagnosed	Local variety, Poor disease management practices, poor yield
4	Farming situation	Rainfed
5	Production system and thematic area	Plant Protection
6	Farmers' practices	T1-No control measure
7	Details of technologies selected for assessment/refinement Treatments	T2-Seed treatment with Imidachlorpid 600 FS @ 5.0 ml/kg T3- Spraying of Imidachlorpid 17.8 SL @ 0.5 ml/lit (3 spraying at 15, 30 and 45 DAS)
8	Source of technology	IGKV, Raipur
9	No. of animals	03
10	No. of farmers	0.40 ha.
11	Critical input	03
12	Cost of input	Rs 2000
13	Total cost	Rs 5000
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

1	Enterprise	Linseed var. RLC 153
2	Title of on-farm trial	Assessment of different chemical control measure for Alternaria Blight of Linseed
3	Problem diagnosed	Local variety, Poor disease management practices, poor yield
4	Farming situation	Irrigated
5	Production system and thematic area	Plant Protection
6	Farmers' practices	Untreated
7	Details of technologies selected for assessment/refinement Treatments	T2-Seed treatment with Carbendazim @ 2g/kg seeds T3- Spraying of Ridomil MZ @ 0.25 % at 15 DAT, 30 DAT and 45 DAT
8	Source of technology	IGKV, Raipur
9	No. of animals	
10	No. of farmers	03
11	Critical input	Seeds, fungicide
12	Cost of input	Rs.2500
13	Total cost	Rs.7500/-
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT: +

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	
Year/Season:	
Farming situation:	
Problem diagnosis:	
Thematic area:	
No of trials:	
No. of farmers involved	
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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 Dept. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Tomato	Integrated Crop Management	Improved Variety Seed , and Staking	Improved Variety Seed, Paddy Straw Mulching and Bamboo Sticks	Rabi, 2024	01 ha	05	Fruit yield q/ha
2	Turmeric	Integrated Disease Management	Rhizome Treatment with Carbendazim 50%wp+ Spraying of Carbendazim 1%+2% Mancozeb 6 times spray at 15 days interval	Improved variety seed, Fungicide	Kharif, 2024	01 ha	05	Tuber yield q/ha
3	Marigold	Varietal evaluation	Improved variety of Marigold cv. Pusa Narangi Gainda	Improved Variety Seedling	Rabi, 2024	01 ha	05	Flower yield q/ha
4	Chilli	Integrated Disease Management	Spraying of NAA with 2-3 ml/10 liters of water at 45 and 60 days after transplanting	PGR	Rabi, 2024	01 ha	05	Fruit yield q/ha
5	Black Gram var Indira Urd -1	Plant Protection	Demonstration on Control Measure of Powdery Mildew Disease of Black Gram	Fungicides	Kharif, 2024	01 ha	05	Seed yield q/ha
6	Paddy straw mushroom	Crop Diversification	Demonstration on paddy straw mushroom production with threshed straws	Mushroom spawn	Kharif, 2024	200m2	05	Mushroom yield (kg)/bags
7	Mustard	Plant Protection	Demonstration on Control Measure of Alternaria Blight in Mustard	Fungicides	Rabi, 2024	01 ha	05	Seed yield q/ha
8	Potato	Plant	Demonstration	Fungicides	Rabi,	01 ha	05	Tuber yield

		Protection	on Control Measure of Early Blight in Potato		2024			(t/ha.)
9	Green Gram	Farm Mechanization	Demonstration of Line Sowing in Green Gram by Multi Crop Planter	Multi Crop Planter, DAP, MOP	Kharif, 2024	01 ha	05	Seed yield q/ha
10	Maize	Farm Mechanization	Demonstration of Line Sowing in Maize by Multi Crop Planter	Multi Crop Planter, DAP	Kharif, 2024	01 ha	05	Seed yield q/ha
11	Chick pea	Farm Mechanization	Demonstration of Line Sowing in Chick pea by Multi Crop Planter	Seed, Multi Crop Planter, DAP	Rabi, 2024	01 ha	05	Seed yield q/ha
12	Field pea	Farm Mechanization	Demonstration of Line Sowing in Field Pea by Multi Crop Planter	Seed, Multi crop planter, DAP	Rabi, 2024	01 ha	05	Seed yield q/ha

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	12	Jan – Dec 2024	
2	Farmers Training	08	Jan – Dec 2024	
3	Media coverage	10	Jan – Dec 2024	
4	Training for extension functionaries	02	Jan – Dec 2024	40

Details of FLD on Enterprises

Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Multi Crop Planter	Green Gram	Kharif, 2024	05	01 ha	Seed Drill, DAP, MOP	Seed Yield q/ha		
Multi Crop Planter	Maize	Kharif, 2024	05	01 ha	Multi Crop Planter, DAP	Seed Yield q/ha		
Multi Crop Planter	Chick pea	Rabi, 2024	05	01 ha	Seed, Multi Crop Planter, DAP	Seed Yield q/ha		

Multi Crop Planter	Field pea	Rabi, 2024	05	01 ha	Seed, Multi crop planter, DAP	Seed Yield q/ha		

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No .	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Pigeon Pea	Integrated Crop Management	Sowing with Multi-crop Planter	Seed, Biofertilizer, Biopeticide	Kharif	20	50	Seed Yield
2	Blackgram	Integrated Crop Management	Sowing with Multi-crop Planter	Seed, Biofertilizer, Biopeticide	Kharif	20	50	Seed Yield
3	Chickpea	Integrated Crop Management	Sowing with Multi-crop Planter	Seed, Biofertilizer, Biopeticide	Rabi	20	50	Seed Yield
4	Fieldpea	Integrated Crop Management	Sowing with Multi-crop Planter	Seed, Biofertilizer, Biopeticide	Rabi	20	50	Seed Yield
5	Niger	Integrated Crop Management	Seed treatment with fungicide, IPM, NPM etc.	Seed Biofertilizer, Biopeticide	Kharif	20	50	Seed Yield
6	Sesame	Integrated Crop Management	Seed treatment with fungicide, IPM, NPM etc.	Seed Biofertilizer,Biopeticide	kharif	20	50	Seed Yield
7	Mustard	Integrated	Seed treatment	Seed	Rabi	20	50	Seed Yield

		Crop Management	with fungicide, IPM, NPM etc.	Biofertilizer,Biopesticide				
8	Linseed	Integrated Crop Management	Seed treatment with fungicide, IPM, NPM etc.	Seed Biofertilizer, Biopesticide	Rabi	20	50	Yield

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	08	June-Dec 2024	
2	Farmers Training	16	June-Dec 2024	
3	Media coverage	08	June-Dec 2024	
4	Training for extension functionaries	08	June-Dec 2024	

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	01	01							
Resource Conservation Technologies	01	01							
Integrated Farming	05	01							
Water management	05	01							
Seed production	02	01							
Integrated Crop Management	02	01							
Total	16	06							
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	10	1							
Protective cultivation (Green Houses, Shade Net etc.)	10	1							
Total	20	2							
b) Fruits		1							
Management of young plants/orchards	10	1							
Total	10	2							
c) Ornamental Plants	10	1							
Total	10	1							
d) Plantation crops	10	1							
Total	10	1							
e) Tuber crops	10	1							

[illegible]

[illegible]

[illegible]

B) OFF Campus

[illegible]

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
March 2024	F	Importance of summer plowing	1							
April 2024	F	Natural farming	1							
May 2024	F	Importance of green manuring	1							
June 2024	F	INM in cereal crops and Millets	2							
July 2024	F	Water conservation practices	1							
August 2024	F	INM in oilseed crops	1							
September 2024	F	Weed management in millets	1							
October 2024	F	Cultivation practices of rabi pulses	1							
November 2024	F	INM in rabi crops	1							
December 2024	F	INM in rabi crops	1							
Horticulture										
January 2024	F	Production of low volume and high value crops	1							
March 2024	F	Training and Pruning	2							
June 2024	F	Micro irrigation/irrigation	1							
July 2024	F	Rejuvenation of old orchards	1							
Livestock production										
March 2024	F	Care and management of dairy animal	1							
May 2024	F	Care and management of small ruminant	1							
July 2024	F	Care and management of	1							

		poultry								
September 2024	F	Nutritional management of ruminants'	1							
November 2024	F	Seasonal management of poultry and ruminants	1							
Home Science										
Plant Protection		IDM in vegetable crops	1							
		Mushroom production	1							
Agriculture Engineering										
February 2024	F	Minor Millets Processing & Value Addition	1							
March 2024	F	Utilization Drone Technology	1							
Soil Science										

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
March 2024	F	Importance of summer plowing	1							
April 2024	F	Natural farming	1							
May 2024	F	Importance of green manuring and green manuring crops	1							
June 2024	F	INM in cereal crops	2							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		and Millets and fodder production								
July 2024	F	Water conservation practices and their importance in crops	1							
August 2024	F	INM in oilseed crops	1							
September 2024	F	Weed management in millets	1							
October 2024	F	Cultivation practices of rabi pulses	1							
Horticulture										
July 2024	F	Export potential fruits	1							
May 2024	F	Micro irrigation systems of orchards	1							
September 2024	F	Management of potted plants	1							
Livestock production										
April 2024	F	Prevention and cure of disease in dairy animal	1							
June 2024	F	Prevention and cure of disease in small ruminant	1							
August 2024	F	Prevention and cure of disease in poultry	1							
October 2024	F	Nutritional management of poultry	1							
December 2024	F	Green fodder	1							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		production and mangement								
Home Science										
Plant Protection										
Agriculture Engineering										
February 2024	F	Modern Agricultural Machinery & Equipments	1							
March 2024	F	Agricultural Food Processing & Value Addition	1							
Aprill 2024	F	Post Harvest Management	1							
May 2024	F	Utilization of Irrigation System	1							
Soil Science										

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June 2024	RY	Seed Production Technology in Cereal and Pulse Crop	02							
September 2024	RY	Principle and Practices of Organic	01							

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		Farming								
October 2024	RY	Package and Practices of Millet Production	02							
Horticulture										
June 2024	RY	Protected Cultivation of Vegetables and spices	01							
July 2024	RY	Nursery Management of Vegetables and spices	01							
Livestock production										
Home Science										
July 2023	RY	Mushroom Production	05							
Plant Protection										
August 2023	RY	Integrated Pest Management in Paddy Crop	05							
Agriculture Extension (Capacity Building and Group Dynamics)										
June 2023	RY	Training of Making Honey bee box	02							
Soil Science										

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
OILSEEDS			
PULSES			
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Pomegranate	Bhagwa, Arkta, Ganesha	1500
	Sapota	Cricket ball and Kalipatti	500
	Jackfruit	Desi	1000
	Guava	Lukhnaw-49, Allahabad Safeda	2000
	Karonda	Mahroon	10000
	Litchi	Ambika Litichi-1 and Kalkatiya	2000
	Mango	Dasheri, Langra, Malika, Amarpalli	5000
	Papaya	Surya/ CO 1	5000
	Citrus	Kagzzi Lime	1000
SPICES	Turmeric	Roma & Rashmi	10 q
VEGETABLES	Tomato	Kashi aman	50000
FOREST SPECIES	Drumstick	PKM-1	5000
	Lemon grass	Kaveri Krishna and Cim Shikhar	50000 Slips
ORNAMENTAL CROPS	Citronella	Bio-13	50000 Slips
PLANTATION CROPS	-	-	
	-	-	-
Others (specify)			
	-	-	-
	Oyster	Oyster	200 kg
	-	8 Type Soap	200 No

	-	Mosquito Repellent	200 No

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost	Esina fotieda	1	100
2	NADEP	-	1	500
3				
BIO PESTICIDES				
1	Dasparni arkl	-	1	50
2	Pesticides	Neemastra	10	50
3		Bramhastra	5	50
		Agniastra	5	55

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Crossbred, Indigenous	Sahiwal, Gir, HF Cross Sahiwal	05	01/animal
SHEEP AND GOAT				-
POULTRY	Crossbred	Vanraja	50	
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
01/01/2024	Jan-March	100
01/04/2024	April-June	100
01/07/2024	July-Sept	100
01/10/2024	Oct-Dec	100

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Village survey, Leaflet, Pamphlet, article
2	Rural Youth	Leaflet, Pamphlet, article, questionnaires.
3	In-service personnel	Leaflet, Pamphlet, article, review of relevant literature.
4	methodology for identifying OFTs/FLDs	Field survey, Leaflet, Pamphlet, article, questionnaires.
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Majhganwa	Baikunthpur	05 Km
2	Nagar	Baikunthpur	12 Km
3	Ranai, Patna	Baikunthpur	25 Km
4	Phoolpur	Baikunthpur	10 km
5	Kusah	Sonhat	30 Km
6	Umjher	Baikunthpur	15 km

1. No. of farm families selected per village :

2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
CARS Korea	Scientific advisory
Agriculture department	Farmers advisory
Horticulture department	Farmers advisory

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
Farmer Visit	Farmer interaction

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Setting up of bee box manufacturing unit	Financial assistance

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
July-Dec	Agri drones	100ha

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _10060___ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Turmeric	Kharif	Turmeric var Roma/Reshmi	Seed production	4000
Millets	Kharif	Finger millet, Kodo & Kutaki	Demonstration	20
Vegetables	Kharif	Seasonal Vegetable	Demonstration	1000
Ground nut	Kharif	Chhattisgarh Mungfali-1	Seed production	1000
Potato	Rabi	Kufri Khayati	Seed production	2000
OKRA	Kharif	VNR	Demonstration	2000
Tomato	Rabi	Kashi aman	Demonstration	20
Chickpea	Rabi	RVG-202	Demonstration	20

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Distillation unit	Essential oil extraction	16	500 kg per batch
Medicinal Farm	Medicinal & Aromatic	4000	10,0000 Lemon grass

	plants		slips
Mother orchard	Improved variety of mango, pomegranate, sapota, citrus, litchi planted	8000	10000
Fruit nursery	Improved variety of Karounda, papaya, Moringa,	200	50000 fruit nursery
Dairy unit	Milk Production	25	120 liter per month
Poultry unit	Vanraj breed rearing	16	10000
Milk Processing unit	Milk related product	50	
Mushroom Spawn Production unit	Spawn Production unit	10	50 kg

ANNUAL ACTION PLAN 2024

KVK Mahasamund

Year of sanction:2004.

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Satish Kumar Verma	KVK Mahasamund	9424214626	kvk.mahasamund@igkv.ac.in

1.2 Staff Position on (31th Dec.2023)

S. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Satish Kumar Verma	Senior Scientist & Head	Horticulture	131400-217100, 161600	22.09.12	04.10.14	942421426	skvhort2014@gmail.com	
2	Subject Matter Specialist	Dr. Saket Dubey	SMS	Horticulture	56100-177500, 73200	06.09.12	07.04.15	8817551202	saketdubey_horti@rediffmail.com	
3	Subject Matter Specialist	Shri Kunal Chandrakar	SMS	Soil Science	56100-177500, 65000	16.09.14	10.08.15	9754377591	kunal1586@gmail.com	
4	Subject Matter Specialist	Mrs. Rajni Dharmendra Agashe	SMS	Agricultural Extension	56100-177500, 65000	22.09.14	12.10.20	7389325085	rajniagashe@gmail.com	
5	Subject Matter Specialist	Er. Ravish Keshri	SMS	Soil & Water Engineering	56100-177500, 69000	20.10.14	20.10.14	9425373479	ravishkeshri@gmail.com	
6	Subject Matter Specialist	Deepanshu Mukherjee	SMS	Agro meteorology	56100-177500, 65000	07.09.19	07.09.19	6261968323	deepajeet10@gmail.com	
7	Subject Matter Specialist	Dr. Nirjharnee Nandeha	SMS	Agronomy	56100-177500, 65000	13.09.2023	13.09.2023	9406474226	nirjharneenandeha04@gmail.com	
8	Programme Assistant	Mr. S. M. Ali Humayun	PA (Ento)	Entomology	35400-112400, 44900	27.10.14	27.10.14	9827909069	humayun27@ymail.com	
9	Computer Programmer/ Programme Assistant	Smt. Punitha Kartikeyan	PA (Comp)	Computer Science	35400-112400, 47600	26.09.12	29.07.13	9424231673	punitakartikeyan@gmail.com	
10	Farm Manager	Mr. Kamal Lodhi	FM	Agronomy	35400-112400, 35400	31.10.19	31.10.19	7000084941	kamallodhi1610@gmail.com	
11	Assistant	Shri Amar Chand Sahu	AG-1		28700-91300, 31200		09.01.23	9669048985	kvkmahasamund@gmail.com	
12	Jr. Stenographer / Comp. Operator	Shri Narottam Sahu	AG-2 (Contractual)	-	18420 (Fixed)	01.01.21	01.01.21	9926848045	kvkmahasamund@gmail.com	
13	Driver	Vacant	Driver	-	-	-	-	-	-	
14	Driver	Mr. Rajesh Markandey	Driver	-	25400	02.04.13	02.04.13	7566000700	kvkmahasamund@gmail.com	
15	Supporting staff	Shri Khayal Das Vaishnav	Messenger	-	26600	04.02.06	04.02.06	9516348175	kvkmahasamund@gmail.com	
16	Supporting staff	Vacant	Watchman	-	-	-	-	-	-	

1.3 Total land with KVK (in ha): 20 ha.

S. No.	Item	Area (ha)
1	Under Buildings	1 ha
2	Under Demonstration Units	2 ha
3	Under Crops	8 ha
4	Orchard/Agro-forestry	7 ha
5	Others (specify)	2 ha
Total		20 ha

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR						
2	Farmers Hostel	ICAR						
3	Staff Quarters (6)	-						
4	Demonstration Units (2)	DMFT (Quail Unit), DMFT (Mushroom Unit)						
5	Fencing	RKVY, IGKV						
6	Rain Water harvesting system	ICAR						
7	Threshing floor	-						
8	Farm Godown	RKVY						

A) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Marshal	2005	382607	69195 (09.07.15)	Write off on 09.7.15
Motor Cycle	2005	41998.81	51203	working
Bolero	2018	774890		working
Tractor	2005	Write off		Write off

B) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2021	52816	Working
Xerox Machine	-		
Generator	-		
Video Camera	-		
Computer, Laser Printer	2021	16000	Working
UPS 600 VA	-		
Stabilizer 2 KVA	-		
Stabilizer	2021	3700	Working
Inverter 600 VA (2)	-		
Inverter Battery (2)	-		

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	April - May 2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1 (Mahasamund & Bagbahra block)	Rainfall, mm - 1434 Soil type - Loamy Topography -Gentle slope Farming system - Agriculture + horticulture, Agriculture + fishery, agriculture + forestry
2	AES – 2 (Pithora, Basna & Saraipali block)	Rainfall, mm - 900 - 1100 Soil type - Clay loam Topography- Moderate slope Farming system - Agriculture + horticulture, Agriculture + dairy, Agriculture + fishery, agriculture + forestry

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1(Mahasamund & Bagbahra block)	Rainfall, mm - 1434 Soil type - Loamy Topography -Gentle slope Farming system - Agriculture + horticulture, Agriculture + fishery, agriculture + forestry
2	AES – 2 ((Pithora, Basna & Saraipali block)	Rainfall, mm - 900 - 1100 Soil type - Clay loam Topography- Moderate slope Farming system - Agriculture + horticulture, Agriculture + dairy, Agriculture + fishery, agriculture + forestry

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
Availability of raw material like paddy, wheat, kodan, tur, kulthi etc. Due to this, there is good scope for agro based industries.	- Agriculture and Horticulture have not been effectively exploited. - Inadequate infrastructure base industrial estate, transport etc mark the industrial growth.	Development of agriculture sector establishment of agro-based industries well in tern provide opportunities for development of agricultural products such as fruits and vegetables	Ecological Imbalance: There is possibility of creating an ecological imbalance because of felling of trees, changing topography of land, utilization of large quantities of ground water etc.

AES-2 (name)

Strength	Weakness	Opportunities	Threats
Density of population is lower than state average. Hence large area of free land is available for industrialization.	- District is lacking on medical facilities, education, initiations, entrepreneurial talent and Industrial culture. - Agriculture is main activity of district. Farmers are not interested in industrial activity.	Raipur and Durg districts are well developed cities and known as the industrial cities in CG state is near to Mahasamund district	If proper investment climate is not provided, capital might get diverted and get sunk in un-productive assets. This will cause capital squeeze for new projects.

Add AES if needed

Land Use Pattern

Particulars	Area "000 ha"
Total Geographical area	413462.9
Forest	41453.75
Waste Land	7005.11
Other than cultivated area	34124.76
Cultivable waste and alkaline land	12380.98
Pastures	16152.17
Bushes	
Current Fallow	3197.63
Other Fallow	3807.48
Agricultural Land	303731.1
Area Sown	256524
Kharif	256524
Rabi	42258
Zaid	-
Cropping Intensity	119

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	5596
2	Well	795
3	Tube well	63287
4	Ponds	5596
5	Others	7170

Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Inceptisols (Matasi): Sandy loam	Sandy Loam, medium shallow deep, yellow colour, PH- 5.4-6.2	107547
2	Alfisols (Dorsa): Clay loam	Clay loam, medium to moderate deep, red and brownish grey colour, PH- 5.8-6.5	59667
3	Entisols (Bhata): lateritic	Gravelly coarse loamy to Sandy , very shallow, reddish to dark reddish colour, PH- 5.0-5.4	58438
4	Vertisols (Kanhari): Clayey	Clayey heavier deep, dark gray brown to black colour, PH- 5.8- 6.9	53250

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
1	Fruits	12450	184772	14.84
2	Vegetables	19159	323274	16.87
3	Spices	3048	33083	10.85
4	Flowers	12069	24912	2.06

Source: Department of Horticulture and Farm Forestry, Nava Raipur, C.G, 2022-23

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	3.04	25.8	11.3
Feb. 2023	0.0	31.3	13.3
Mar. 2023	48.94	34.0	20.2
Apr. 2023	36.06	38.2	23.8
May. 2023	69.54	40.0	25.6
Jun. 2023	157.34	39.2	28.5
July. 2023	470.67	30.9	24.9
Aug. 2023	287.94	29.3	23.7
Sept. 2023	465.0	29.9	24.1
Oct. 2023	15.19	29.0	19.3
Nov. 2023	7.44	26.9	17.0
Dec. 2023	16.5	26.4	16.4

Production and productivity of Livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	3.05 Lakh	71.98 MT.	...kg
Buffalo	21813	14.9 MT.	...kg
Sheep			
<i>Crossbred/ Indigenous</i>	15970	0.167 MT wool	...kg
Goats	1.23 L	2.91 MT	...kg
Pigs	1884	--	---
Rabbits	--	--	--
Poultry			
Hens	10.9 L	7.2 Lakh eggs	...eggs/ bird/yr
Turkey and others	--	---	--
Category	Area	Production	Productivity
Fish	--(ha)	...Q/ month	Q/ ha.

Details of Operational area / Villages (2024)

S N	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Mahasamund	Mahasamund	Paraswani,	Rice-wheat-Groundnut-chickpea-vegetable	Low yield, rice fallow	Diversification of existing production systems for better profitability. Farm mechanization through improved agricultural implements
2	Mahasamund	Mahasamund	Saradih,	Rice, wheat	Low yield, Crop Residue Management	Diversification of existing production systems for better profitability. Farm mechanization through improved agricultural implements
3	Mahasamund	Mahasamund	Barbaspur,	Rice, wheat	Low yield, Crop Residue Management	Diversification of existing production systems for better profitability. Farm mechanization through improved agricultural implements
4	Mahasamund	Mahasamund	Birkoni,	Rice, Wheat	Low yield, Crop Residue Management	Diversification of existing production systems for better profitability. Farm mechanization through improved agricultural implements
5	Mahasamund	Mahasamund	Achhola	Rice, Wheat	Low yield, Crop Residue Management	Diversification of existing production systems for better profitability. Farm mechanization through improved agricultural implements

Priority / Thrust areas

S. No.	Particulars
1.	Diversification of existing production systems for better profitability.
2.	Farm mechanization through improved agricultural implements
3.	Introduction of community based quality seed and planting material.
4.	Income augmentation of resource poor farm women through small scale backyard enterprise
5.	Reduction of cost of cultivation of existing major crop enterprises through better management practice
6.	To enhance crop productivity and cropping intensity under rainfed and irrigated conditions.
7.	Improve riverbed cultivation through community based.
8.	Entrepreneurship development of rural youths and woman SHG members
9.	Water management using micro irrigation
10.	Soil Test Based Crop Production System
11.	Integrated Nutrient Management
12.	Mal nutrition among preschool children and adolescent girl
13.	Poor income of farm family
14.	Wastage of vegetable in surplus condition

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
10	100	10	90

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
75	1575	102	Mass

Seed Production (Qtl.)	Planting material (Nos.)
77 Qt.	6,16,000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1									
2									
3									
4									

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	Total
Variety assessment	2									2
TOTAL										

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	Total
TOTAL								

Details of On Farm Trial (OFT)

OFT-1 (Agronomy)

Crop / Enterprise	Rice		
Title of on farm trial	Varietal Assessment of BPH and Blast in rice var. MTU 1153		
Problem diagnosed	Insect-pest infestation (BPH, Panicle mite) and low yield		
Farmers' Practices	Cultivation of rice variety MTU – 1010		
Details of technologies selected for	T ₁	Cultivation of rice variety MTU – 1010	

assessment	T ₂	Rice var. MTU-1153 Non lodging, tolerant to BPH and Blast with low grain shattering , Duration - 120 days, Yield- 45-50 q/ha
Source of technology	IGKV, Raipur	
Plot size (ha)	0.4	
No. of farmers	5	
Total cost	5000	
Critical input	Seed, Bio-fertilizer	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	Insect damage/m ² , Effective tillers/hill, No. Grain/panicle, Yield q/ha and B:C ratio	

OFT -2 (Agronomy)

Enterprise	Wheat
Title of on-farm trial	Assessment of Kanishka (CG 1029) wheat var. performance under late sown and irrigated conditions
Problem diagnosed	low yield as a result of late wheat sowing and poor variety selection
Farming situation	Midland
Production system and thematic area	Rice-Wheat, Varietal Assessment
Farmers' practices	Cultivation of wheat variety GW 322
Source of technology	IGKV, Raipur
No. of farmers	5
Critical input	Seed, Bio-fertilizer
Total cost	6000
Performance indicators Observation to be recorded Yield : quintals/ha Economics : B: C ratio Social: Farmers reaction & Feedback	Sowing time, Effective tiller/plant, Grain/spike, Yield, B:C ratio

OFT -3 (Soil Science)

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of Natural farming Based Nutrient Management in Scented Rice (Var. – CG Devbhog)	
Problem diagnosed	Low yield potential due to degrading and poor soil fertility status	
Farmers' Practices	Use of FYM @ 1 ton / ha, no use of Beejamrit + Ghanjeevamri + Jeevamrit	
Details of technologies selected for assessment	T ₁	Use of FYM @ 1 ton / ha, no use of Beejamrit + Ghanjeevamri + Jeevamrit
	T ₂	Seed treatment with Beejamrit + application of Ghanjeevamrit@ 250 kg/ha. + FYM@ 250 kg/ha + foliar spray of Jeevamrit@ 500 ml/ha in 15 days interval after sowing + use of Biopesticides
Source of technology	IGKV, Raipur	
Plot size	0.2 ha.	
No. of farmers	5	
Total cost	11000/-	
Critical input	Seed, raw materials for preparation of Jivaamarit, Beejamrit, Ghanjivamarit, Biopesticides	
Performance indicators: (v) Growth and Yield attributes (vi) Technical- yield (q/ ha) (vii) Economic (viii) Social – Employment generation	No. of tillers/plant Yield (q/h) B:C ratio	

OFT -4 (Soil Science)

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of Soil Health Card (SHC) based Nutrient Management in Wheat (Var.- CG 1023 Hansa)	
Problem diagnosed	Low yield due to imbalance use of fertilizer	
Farmers' Practices	Irrigated	
Details of technologies selected for assessment	T ₁	Imbalance use of fertilizer, Dose (75:46:00) NPK kg/ha
	T ₂	SHC based nutrient management, Improved variety (CG 1023 Hansa) (Rows can be added if necessary)

Source of technology	IGKV, Raipur
Plot size	0.2 ha.
No. of farmers	5
Total cost	6800/-
Critical input	Seed , Soil Testing
Performance indicators: (ix) Growth and Yield attributes (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	No. of panicle/sq. m Yield (q/h) B:C ratio

OFT -5 (Agri Engg.)

Crop/Enterprise	Black gram
Title of on-farm trial	Assessment on effect of vibratory subsoiler on growth and yield of black gram
Problem diagnosed	Crop damage due to high intense rainfall and poor infiltration/drainage
Farming situation	Rainfed
Production system and thematic area	Farm mechanization
Farmers' practices	No deep tillage
Details of technologies selected for assessment/refinement Treatments	T1: Deep tillage by vibratory subsoiler T2: No deep tillage (control)
Source of technology	ICAR-IISR, Indore
No. of farmers	4
Area of each trial	0.4 ha
No of trial	4
No. of animals (if animals are part of OFT)	NA
Critical input	Seed
Performance indicators Observation to be recorded	Field Capacity (ha/hr), yield (Q./ha), BC ratio
Cost of input	5000
Total cost	10000

OFT -6 (Agri Engg.)

Crop/Enterprise	Finger millet (Ragi)
Title of on-farm trial	Assessment of millet planter for sowing of Finger millet (ragi)
Problem diagnosed	High seed rate, Low yield, problem in crop management
Farming situation	Rainfed / Irrigated
Production system and thematic area	Farm mechanization
Farmers' practices	broadcasting
Details of technologies selected for assessment/refinement Treatments	T1: sowing of ragi with millet planter T2: broadcasting (control)
Source of technology	FAE,IGKV, Raipur
No. of farmers	04
Area of each trial	0.4 ha
No of trial	4
No. of animals (if animals are part of OFT)	NA

Critical input	Seed
Performance indicators Observation to be recorded	Field Capacity (ha/hr), yield (Q./ha), BC ratio
Cost of input	5000
Total cost	10000

OFT-7(Horticulture)

Crop / Enterprise	Colocassia	
Title of on farm trial	Assessment of Colocassia Variety Indira Arbi-2	
Problem diagnosed	Use of Unidentified Variety	
Farmers' Practices	Use of Unidentified Variety	
Details of technologies selected for assessment	T ₁	Use of Unidentified variety Ghuyiya
	T ₂	Improved Colocassia Variety Indira Arbi-2
Source of technology	IGKV, Raipur	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	16000	
Critical input	Seed	
Performance indicators:		
(xiii) Growth and Yield attributes	Number of Leaves, Weight of Corm yield (q/ ha) B:C ratio	
(xiv) Technical- yield (q/ ha)		
(xv) Economic		
(xvi) Social – Employment generation		

OFT -8 (Horticulture)

Crop / Enterprise	Onion
Title of on-farm trial	Assessment of Chemical Weed Management in Onion
Problem diagnosed	Higher weed infestation
Farming situation	Irrigated
Production system and thematic area	Weed Management
Farmers' practices	Hand Weeding
Details of technologies selected for assessment/refinement Treatments	T1Pendamethalin @ 2 lt. per ha after 0-3 days after transplanting T2 Quizalofop Ethyl 4% + Oxyfluorfen 6% EC 10% EC @ 400 ml/ acre at 30 DAT
Source of technology	ICAR-DWR
No. of farmers	05
Critical input	Seed and weedicide
Cost of input	3200
Total cost	16000
Performance indicators Observation to be recorded	yield (q/ ha) B:C ratio

Detailed Information about OFT:

Agronomy (OFT-1):-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy (OFT-1)
Title of on-farm trial:	Varietal Assessment of BPH and Blast in rice var. MTU 1153
Year/Season:	2024/kharif
Farming situation:	Midland
Problem diagnosis:	Insect-pest infestation (BPH, Panicle mite)

Thematic area:	Varietal evaluation
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cultivation of rice variety MTU – 1010
T2 –Recommended Practice-	Rice var. MTU-1153 (Non lodging, tolerant to BPH and Blast with low grain shattering , Duration - 120 days, Yield- 45-50 q/ha)
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Agronomy (OFT-2):-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy (OFT-2)
Title of on-farm trial:	Assessment of Kanishka (CG 1029) wheat performance under late sown and irrigated conditions
Year/Season:	2024/Rabi
Farming situation:	Midland
Problem diagnosis:	low yield as a result of late wheat sowing and poor variety selection
Thematic area:	Varietal evaluation
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1:Cultivation of wheat variety GW - 322
T2 –Recommended Practice-	T2:Wheat var. Kanishka Duration : 103-105 days, average yield: 50-55 q/ha
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Soil Science (OFT-3):-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Natural farming Based Nutrient Management in Scented Rice (Var. – CG Devbhog)
Year/Season:	2024- Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield potential due to degrading and poor soil fertility status
Thematic area:	Natural Farming

No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Use of FYM @ 1 ton / ha, no use of Beejamrit + Ghanjeevamri + Jeevamrit
T2 –Recommended Practice-	T2- Seed treatment with Beejamrit + application of Ghanjeevamrit@ 250 kg/ha. + FYM@ 250 kg/ha + foliar spray of Jeevamrit@ 500 ml/ha in 15 days interval after sowing + use of Biopesticides
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Soil Science (OFT-4):-

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of Soil Health Card (SHC) based Nutrient Management in Wheat (Var.- CG 1023 Hansa)
Year/Season:	2024-25, Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of fertilizer
Thematic area:	Nutrient Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- Imbalance use of fertilizer, Dose (75:46:00) NPK kg/ha
T2 –Recommended Practice-	T2- SHC based nutrient management, Improved variety (CG 1023 Hansa)
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	

OFT -5 (Agri Engg.)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering (OFT-1)
Title of on-farm trial:	Assessment of millet planter for sowing of Finger millet (Ragi)
Year/Season:	Rabi 2024
Farming situation:	Rainfed/irrigated
Problem diagnosis:	High seed rate, Low yield, problem in crop management

Thematic area:	Farm mechanization
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1- broadcasting (control)
T2 –Recommended Practice-	T2: sowing of Ragi with millet planter
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	FAE, IGKV Raipur
Characteristics of technology:	Line sowing, low seed rate
Name of Crop/Enterprises:	Finger millet (Ragi)
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT -6 (Agri Engg.)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering (OFT-2)
Title of on-farm trial:	Assessment on effect of vibratory subsoiler on growth and yield of Black gram
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Crop damage due to high intense rainfall and poor infiltration / Drainage
Thematic area:	Farm Mechanization
No of trials:	4
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1: No deep tillage (control)
T2 –Recommended Practice-	T2: Deep tillage by vibratory Subsoiler
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-IISR, Indore
Characteristics of technology:	Increase infiltration and drainage
Name of Crop/Enterprises:	Black Gram
Recommendations for Farmers	

Horticulture (OFT-7):-

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Colocassia Variety Indira Arbi-2
Year/Season:	Kharif 2024
Farming situation:	Rainfed
Problem diagnosis:	Use of Unidentified Variety
Thematic area:	Crop Production
No of trials:	05

No. of farmers involved	05
Type of OFT (Assessment)	Assessment of Colocassia Variety Indira Arbi-2
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Unidentified Variety : Ghuyiya
T2 –Recommended Practice-	Improved Colocassia Variety : Indira Arbi-2
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV,Raipur
Characteristics of technology:	Improved Variety
Name of Crop/Enterprises:	Colocassia
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Horticulture (OFT-8):-

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Chemical Weed Management in Onion
Year/Season:	Rabi 2024
Farming situation:	Irrigated
Problem diagnosis:	Higher weed infestation
Thematic area:	Weed Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment)	Assessment of Chemical Weed Management in Onion
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Hand Weeding
T2 –Recommended Practice-	T1Pendamethalin @ 2 lt. per ha after 0-3 days after transplanting T2 Quizalofop Ethyl 4% + Oxyfluorfen 6% EC 10% EC @ 400 ml/ acre at 30 DAT
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-DWR
Characteristics of technology:	Weedicide Application for Management of Weeds
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension

OFT: 9

Title	Assessment of utilization of ICT based app (Crop doctor) in Plant protection of Groundnut crop by the farmers of Mahasamund district.
Season & Year	2023-24, Kharif
Problem identified	Less use of ICT based tools in agriculture by farmers
Thematic Area	ICT

Farming situation	All type
Name of Technology Intervention under study	Crop Doctor App.
Farmers Practice	No use of ICT tools in agriculture by the farmers
No. of replication (Farmers)	25

Results / findings

Performance indicators/ parameters	Unit/ details
1.Utilization pattern of Crop doctor app 2.Purpose of utilization 3. Accurate 4.Timeliness 5.Relevance 6.Problem faced in use of crop doctor app.	

Information about Extension OFT: 10

Title	Assessment of performance of Self Help Groups on Socio - Economic, Knowledge and Technology level on members of SHGs in Mahasamund District of Chhattisgarh.
Season & Year	2023-24, Rabi
Problem identified	Farmers are not jointly organized with SHGs for production, processing, value addition and marketing of agricultural produce or for other allied activities.
Thematic Area	Impact assessment
Farming situation	-----
Name of Technology Intervention under study	Self Help Groups
Farmers Practice	No membership of farmers in SHGs for production, processing, value addition and marketing of agricultural produce or other allied activities
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
Sudy of Socio-economic Profile , level of knoweldge, technology level and problem faced	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Black Gram	Integrated Weed Management	Demonstration on chemical weed management	Seed	Kharif 2024	05	12	Yield, Plant nodules, Weed index, Weed control efficiency
2	Mustard	Integrated Weed Management	Demonstration on chemical weed management	Seed	Rabi 2024-25	05	12	Yield Plant height, Sliqua/plant, weed index, weed control efficiency
3	Black Gram	Integrated Nutrient Mangement	Demonstration of INM in Black gram	Seed, Biofertilizer	Kharif 2024	4.8	12	Number of pod/plant, yield (q/h) & B:C ratio
4	Lathyrus	Nutrient management	Demonstration on improved Utera technique in Lathyrus	Seed, Biofertilizer, Trichoderma, Liquid Fertilizer	Rabi 2024-25	4.8	12	1. Plant height 2. Plant root growth observation 3. Root nodule /plant 4. yield q./ha 5. B:C Ratio

7	Cowpea	Crop Production	Improved Variety "Kashi Kanchan"	Seed	Kharif 2024	0.4	05	Yield, B:C ratio
8	Guava	Crop Production	Fruit bagging in Guava	Anti Fog Polythene Bags	Rabi 2024	0.4	05	Yield, B:C ratio
9	Paddy Straw Mushroom	Integrated Farming System (IFS)	Paddy Straw Mushroom production	Spawn, Polythene Bags and other Essential Inputs	Kharif & Summer 2024	.15	10	Local Check/ Farmer Practice: Yield and B : C ratio
10	Vegetables and Fruits	Nutritional security, Nutrition Sensitive Agriculture	Nutritional garden	Seeds and Saplings of Vegetables and Fruit Plants	Kharif + Rabi 2022	.15	10	Local Check/ Farmer Practice: Yield and B : C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	05	Kharif & Rabi	200
2	Farmers Training	75	Kharif & Rabi	1575
3	Media coverage	35		Mass
4	Training for extension functionaries	4		100

Details of FLD on Enterprises Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
FLD -5 : Farm Mechanization - Paddy Crop Residue Management by Tractor Operated	Paddy	Kharif/Rabi	12	5	NA	Field capacity (Ha/hr), cost of operation (Rs./ha)		
FLD – 6: Farm Mechanization - Demonstration of seed cum fertilizer drill for sowing of wheat	Wheat	Rabi	12	5	Seed	Field capacity (Ha/hr), yield, Q/ha, BC Ratio		

*Field efficiency, labour saving etc.

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sn	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1.	Sesame	ICM	Improved Variety of Seed, Line sowing, Seed treatment with Biofertilizer	Seed, Biofertilizers,	2024 , Kharif	10	25	Plant Population, Yield (q/ha)
2.	Groundnut	ICM	Improved Variety of Seed, Line sowing, Seed treatment with Biofertilizer	Seed, Biofertilizers	2024, Kharif	20	50	Plant Population, Yield (q/ha)
3.	Black gram	Varietal Demonstration	HYV, Seed Treatment, IWP, INM	Seed, Culture, herbicide, fungicide &Insecticide	2024, Kharif	20	50	No.of Pods/per plant yield and B:C

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Protected cultivation technology											
Group Dynamics and farmers organization											
Capacity building for ICT application											
Livestock feed and fodder production											
Production and use of organic inputs											
Gender mainstreaming through SHGs											
Any other (Pl. Specify)											
TOTAL											

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management									
Resource Conservation Technologies									
Cropping Systems									
Crop Diversification									
Integrated Farming									
Water management									
Seed production									
Nursery management									
Integrated Crop Management									
Fodder production									
Production of organic inputs									
Total									
II Horticulture									
a) Vegetable Crops									
Nursery raising	02	02	08	06	14	20	16	36	50
Export potential vegetables	02	02	08	06	14	20	16	36	50
Protective cultivation (Green Houses, Shade Net etc.)	02	02	08	06	14	20	16	36	50
b) Fruits									
Cultivation of Fruit	02	02	08	06	14	20	16	36	50
Management of young plants/orchards	02	02	08	06	14	20	16	36	50
Export potential of ornamental plants	01	01	04	03	07	10	08	18	25
Propagation techniques of Ornamental Plants	02	02	08	06	14	20	16	36	50
d) Plantation crops									
e) Tuber crops									
f) Spices	02	02	08	06	14	20	16	36	50
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility	1	1							25

management									
Soil and Water Conservation	1	1							25
Integrated Nutrient Management	1	1							25
Production and use of organic inputs	1	1							25
Management of Problematic soils	1	1							25
Micro nutrient deficiency in crops	1	1							25
Nutrient Use Efficiency	1	1							25
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies									
Rural Crafts									
Women and child care									
Total									
VI Agril. Engineering									
VII Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
VIII Fisheries									
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development	1								25

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Gra nd Tota l
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Jan	Farmers & Farm women	Integrated crop management in summer rice	1	5	10	15	5	5	10	25
Feb.	Farmers & Farm women	Production technology of sesame	1	5	10	15	5	5	10	25
March	Farmers & Farm women	Weed management in urd bean	1	5	10	15	5	5	10	25
April	Farmers & Farm women	Crop diversification with pulses	1	5	10	15	5	5	10	25
May	Farmers & Farm women	Nursery management in rice	1	5	10	15	5	5	10	25
June	Farmers & Farm women	Weed management in pulses	1	5	10	15	5	5	10	25
Horticulture										
Livestock productio n										
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Jan	Farmers & Farm women	Income generating activities for farm women through SHGs	1							20
Jan	Farmers & Farm women	Nutritional Garden for nutritional security	1							20
Jan	Farmers & Farm women	Production technology of oilseed sesame crop	1							25
Feb	Farmers & Farm women	Formation of FPO and its management	1							25
Feb	Farmers & Farm women	Entrepreneurship development through FPO	1							25
Mar	Farmers & Farm	Use of ICT tools in	1							25

	women	agriculture								
Apr		Production technology of Paddy straw Mushroom	1							25
Soil Science										
January	Farmers & Farm women	Training on Integrated Nutrient Management in Finger Millet	1						25	
February	Farmers & Farm women	Hands on Training on production of ermin compost	1						25	
March	Farmers & Farm women	Training on preparation of vermin wash	1						25	
April	Farmers & Farm women	Hands on training on soil sampling	1						25	
May	Farmers & Farm women	Training on soil treatment through biofertilizer	1						25	
June	Farmers & Farm women	Training on green manuring in Kharif paddy	1						25	
Agrometeorology										
Feb	Farmers & Farm women	Complete Information of Meghdoot app agriculture as well as weather forecast to the farmers.	1							25
Apr	Farmers & Farm women	Damini app technologies in agriculture.	1							25
June	Farmers & Farm women	Weather elements in agriculture.	1							25
Aug	Farmers & Farm women	Importance of Weather Instruments in Agriculture.	1							25
Oct	Farmers & Farm women	Impact of Climate change in agriculture.	1							25
Dec	Farmers & Farm women	Importance about Agro Observatory in Agriculture.	1							25
Agriculture Engineering										
March	Farmers & Farm women	Micro irrigation system	1							25
Apr	Farmers & Farm women	Post-harvest management and processing of millets	1							25
May	Farmers & Farm women	Importance, operation and maintenance of farm machinery	1							25
June	Farmers & Farm women	Rain water harvesting and management	1							25
March	Farmers & Farm women	Micro irrigation system	1							25

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
July	Farmers & Farm women	Weed management in rice	1	5	10	15	5	5	10	25
Aug.	Farmers & Farm women	seed production technology of urd bean	1	5	10	15	5	5	10	25
Sept.	Farmers & Farm women	Management of crop residues	1	5	10	15	5	5	10	25
Oct	Farmers & Farm women	Water management in mustard	1	5	10	15	5	5	10	25
Nov .	Farmers & Farm women	SRI method of rice cultivation	1	5	10	15	5	5	10	25
Dec .	Farmers & Farm women	Organic crop production	1	5	10	15	5	5	10	25
Horticulture										
July	Farmers & Farm Women	Different types of Nursery beds and their uses	01	04	03	07	10	8	18	25
Sept	Farmers & Farm Women	Importance of Fruit Bagging in Guava	01	04	03	07	10	8	18	25
Aug	Farmers & Farm Women	Production technology of Papaya	01	04	03	07	10	8	18	25
June	Farmers & Farm Women	Care and Maintainace of Orchards	01	04	03	07	10	8	18	25
Oct	Farmers & Farm Women	Propagation of Marigold through cuttings	01	04	03	07	10	8	18	25
Aug	Farmers & Farm Women	Cultivation of Tomato under Low cost protected structure	01	04	03	07	10	8	18	25
Jun	Farmers & Farm Women	Improved Production technology of Kharif Onion	01	04	03	07	10	8	18	25
Jun	Farmers & Farm Women	Improved Production technology of Ginger	01	04	03	07	10	8	18	25
Jun	Farmers & Farm Women	Turmeric Propagation through Plug Nursery technique	01	04	03	07	10	8	18	25
Sept	Farmers & Farm Women	Production technology of Marigold	01	04	03	07	10	8	18	25
Nov	Farmers & Farm Women	Ridge and Furrow Method of watermelon	01	04	03	07	10	8	18	25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		cultivation								
Feb	Farmers & Farm Women	Zero Energy Cool Chamber for Storage of vegetables	01	04	03	07	10	8	18	25
July	Farmers & Farm Women	Different types of Nursery beds and their uses	01	04	03	07	10	8	18	25
July	Farmers & Farm Women	Production technology of Banana	01	04	03	07	10	8	18	25
Oct	Farmers & Farm Women	Production technology of Coriander	01	04	03	07	10	8	18	25
Livestock production										
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
May	Farmers & Farm Women	Income generating activities for farm women through SHGs	1							25
Jun	Farmers & Farm Women	Leadership development in farm women	1							25
July	Farmers & Farm Women	Nutritional security through nutritional garden	1							25
Sept	Farmers & Farm Women	Decision making in farm women	1							25
Oct	Farmers & Farm Women	Formation and management of FPO	1							25
Nov	Farmers & Farm Women	Leadership development in farm women	1							25
Dec	Farmers & Farm Women	Formation of FPO and its management	1							25
Soil Science										
July	Farmers & Farm Women	Hands on training on application of biofertilizer in pulses	1							25
August	Farmers &	Training on	1							25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
	Farm Women	application of liquid fertilizer in cereal, pulses and oil seed crops								
September	Farmers & Farm Women	Hands on Training on preparation of Ghanjeevamrit	1							25
October	Farmers & Farm Women	Hands on Training on preparation of Beejamrit and Jeevamrit	1							25
November	Farmers & Farm Women	Training on soil treatment through biofertilizer	1							25
December	Farmers & Farm Women	Training on Integrated nutrient management in Millet crops	1							25
Agrometerology	Farmers & Farm Women									
Feb	Farmers & Farm Women	Complete Information of Meghdoot app agriculture as well as weather forecast to the farmers.	1							25
Apr	Farmers & Farm Women	Damini app technologies in agriculture.	1							25
June	Farmers & Farm Women	Weather elements in agriculture	1							25
Aug	Farmers & Farm Women	Importance of Weather Instruments in Agriculture	1							25
Oct	Farmers & Farm Women	Impact of Climate change in agriculture	1							25
Dec	Farmers & Farm Women	Importance about Agro Observatory in Agriculture .	1							25
Agriculture Engineering										
Jan	Farmers & Farm Women	Agricultural Drone technology	1							25
February	Farmers & Farm Women	Agricultural Drone technology	1							25
July	Farmers & Farm Women	Importance, operation and maintenance of farm machinery	1							25
August	Farmers & Farm Women	Agricultural Drone technology	1							25

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Sept	Farmers & Farm Women	Agricultural Drone technology	1							25
Oct	Farmers & Farm Women	Crop residue management by baler								25
Nov	Farmers & Farm Women	Micro irrigation system	1							25
Dec	Farmers & Farm Women	Micro irrigation system								25

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	5									500
Kisan Mela	1									1000
Kisan Ghosthi	5									200
Exhibition	5									800
Film Show	10									500
Method Demonstrations	10									1000
Farmers Seminar	4									200
Workshop	12									360
Group meetings	15									200
Lectures delivered as resource persons	15									400
Newspaper coverage	20									
Radio talks	6									
TV talks	6									
Popular articles	10									
Extension Literature	05									
Advisory Services	104									Mass
Scientific visit to farmers field	100									1000
Farmers visit to KVK	10									500
Diagnostic visits	20									400
Exposure visits	4									200
Ex-trainees Sammelan	2									100
Soil health Camp	1									200
Animal Health Camp	2									100
Agri mobile clinic	-									-
Soil test campaigns	1									50
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	2									50
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	6									100
Others (pl. specify)Swachhata Abhiyan	12									400
Total										

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	-	-	-
OILSEEDS	Mustard	DRMR 150-35	10.00
PULSES	Black Gram	Indira Urd Pratham	15.00
VEGETABLES	Turmeric	Roma	20.00
	Turmeric	Salem	30.00
	Coriander	CG. Shri chandrasahini Dhaniya-2	2.00
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
	Moringa	PKM-1	1000
	Lemon	Konkan seed less	2000
	Citrus	Kagji	1000
	Karonda	Local	60000
	Custard apple	Local	500
	Mango	Indira Nadiraj /Mallika / Amrapalli	2000
	Tamarind	Local	200
	Jamun	Local	500
	Bael	Local	500
	Aonla	Local	300
FOREST SPECIES			
SPICES			
VEGETABLES	Vegetable Seedlings	Tomato, Brinjal, Chilli, Cabbage,Cauliflower ,Onion	50000
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)	Napier	COBN-5	500000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3	Earthworm	E. Fetida		100
4	Compost			20000
BIOFERTILIZERS				
1	Vermicompost			11000
2	NADEP			6000
3				
BIO PESTICIDES				
1	Dasparni ark			200 L
2	Pesticides			200 L
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Milch	Gir	6	5400
SHEEP AND GOAT	Goat	Barberi	6	150
POULTRY	Meat and Egg	Japanese Quail	1000	20000 chicks
FISHERIES	Rohu, Katla, Mrigal	-	-	200
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter :4

Date of start	Periodicity	Number of copies to be published
Jan - Dec	Quarterly	100

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Paraswani	Mahasamund	12 Kms

1. No. of farm families selected per village : 50

2. No. of survey/PRA to be conducted: 01

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2017.

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	760	760	40	
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Dena Bank	To form the SHG and for Providing facilities of loan to the farmers.
NABARD	Providing fund & Subsidy for economically weak farmers. Providing technical support for organic farming and preparation of biopesticides.
State Agriculture Department	Participation in farmers training Programme. Providing subsidy to adopted farmers of the KVK on inputs & equipments Collaboration for organization of Kisan Mela, Field Day, Exhibition, Joint implementation for different programmes of ATMA
State Deptt. of Horticulture	❖ Participation in training programme ❖ Synergy for different government schemes ❖ Provide planting materials
State Deptt. of Veterinary Science,	Training, Visit and arranging joint Feed and fodder production programme and provide the facility of AI and vaccination
C.G. Rajya Krishi Eyam Beej Vikas Nigam Ltd.	To take seed production programme at KVK Farm as well as farmer's field.
IFFCO	Training demonstration and co-operative Sangosthi
State Fisheries Department,	Trainings & demonstration
Zila panchayat	Financial contribution received for infrastructural development viz. Orchard establishment, vegetable nursery, lac cultivation, vermin composed unit, NADEP unit, fish production
IPL & RCF	Training demonstration and Co-Operative Sangosthi
NHB, Gurgoan	Farmer training on Improved horticulture technology to Sansad Adarsh Gram
NFDB Hyderabad	Skill development training on Fish production & management
MGNREGA	Construction of Community ponds,

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK
(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Modules of NICRA project	Activity details	Targeted Beneficiaries/Area/Coverage
Natural Resource Management (Module –I)	Use of straw baler under Farm mechanization	25
	Awareness Programme on “Role of agriculture implements in mitigating the climate change	50
	Demonstration of line sowing in Mustard crop using seed-cum-ferti drill.	30
	Demonstration of low cost protected cultivation.	25
Crop Production (Module –I)	Awareness programme on importance on role of Pulse crop in resilient farming	25
	Awareness Programme on Plant Protection in Paddy	25
	Awareness Programme on Napier production technology	25
	Introduction of climate resilient variety of Wheat (C.G. Hansa / Kaniksha (CG1029))	25
Livestock and Fisheries (Module –III)	Azolla farming as feed supplement of cattle	50
	Awareness programme on Napier grass production technology	50
	Animal health camp and vaccination	25
	Establishment of backyard poultry Quail/ Kadaknath) unit	25
Exposure visits/Institutional interventions (Module –IV)	Exposure visit to IGKV Kisan mela	25
	Visit to the farm of a progressive farmer.	25
Capacity building programme	Awareness programme on Oyster Mushroom cultivation.	50
	Awareness Programme on Collective marketing	30

Month	Activity Details	Targeted Beneficiary/ Area/Coverage
Jan	Spray of Nano Urea by Drone	50 ha
Feb	Spray of Micro Nutrients/ Insecticides by Drone	50 ha
Sep	Spray of Insecticide/Pesticide by Drone	25 ha
Oct	Spray of Insecticide/Pesticide by Drone	25 ha
Nov	Pre Emergence Weedicide by Drone	50 ha
Dec	Spray of Nano Urea Nano Urea/ Post Emergence Herbicide by Drone	50 ha

Planning for Crop Cafeteria

Total Area of Crop cafeteria: **2000** Sq m

Crop	Season	Variety	Particulars / details	Area (Sq m)
Black Gram	Kharif	Indira Urd Pratham	Duration -75-80 days, Yield-12-14 qt/ha, Yellow Mosaic & powdery mildew resistance	200
Turmeric	Kharif	Roma	Duration – 250-260days Yield-20.70 t/ha, Dry recovery -31% , Curcumin - 9.3 % Oleoresin -13.2%, Essential Oil -4.2%	200
Turmeric	Kharif	Salem	Duration - 250days Yield-18-20 t/ha , Curcumin -4.7 %	200
Ginger	Kharif	Suprabha	Duration - 229days,Yield-16.6 t/ha ,	200
Natural Farming Cowpea + Maize - Wheat	Kharif and Rabi	Cowpea (Kashi kanchan) + Maize (NK-30), Wheat (Ratan)	Comparative studies under Natural, Organic and Conventional farming	1200
Wheat	Rabi	CG-1023 (C.G. Hansa)	Suitable for cultivation in timely (November) sown with restricted irrigation condition. Excellent chapatti making quality score 8.06. High Zinc Content-40.4PPM. Duration-115-117Day. Yield 40-45qt/ha	120
Wheat	Rabi	CG-1029 (Kanishka)	Excellent chapatti making quality score 8.2.Duration-103-105Day. Yield 50-55 qt/ha. Suitable for MP, C.G. & Rajasthan	120
Wheat	Rabi	CG-1040	-	120
Wheat	Rabi	CG-1044	-	120
Wheat	Rabi	CG-1013 (CG- Genhu -03)	Duration-115-117Day. Yield 55-60 qt/ha. Tolerant to brown & black rust	120
Wheat	Rabi	CG-1036(Vidha)	Cereal Suitable for cultivation in timely (November) sown with restricted irrigation condition. Excellent chapatti making quality score 8.5 Duration-110-114Day. Yield 40-60 qt/ha.	120
Coriander	Rabi	CG- Shri chandahasini Dhaniya-2	Moderately tolerant to powdery mildew and aphids. Suitable for leafy as well as seed purpose. High volatile oil content (0.47%) Average Yield 18.4qt/ha. Recommended for Chhattisgarh, Rajasthan, Bihar, Uttar Pradesh Madhya Pradesh, Haryana, Gujarat, Uttarakhand, Andhra Pradesh, Telagana, Tamil Nadu.	180

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Quail Unit	Japanese Quail	369	20000 chicks
Dairy Unit	Cow- Gir	213	5400 lit
Duck cum Fish Unit	Duck- White pekin + Khaki Cambell, Fish- Rohu +Katla + Mrigal	2000	100 Duckling + 200kg Fish
Vermicompost Unit	28 nos.Vermicompost tank	545	546 qt. Vermicompost
Azola Unit	Azola Pinata , 40 nos. tank	286	3.6 t per year
Hydroponics Fodder Unit	Green Fodder production round the year	5	9qt green fodder
Posan Badi Unit	Fruits & Vegetable availability for a family round the year	200	2-5 kg per day

ANNUAL ACTION PLAN 2024

KVK Mainpat

Year of sanction: 2017

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Sandeep Sharma	-	07999504630	kvk.mainpat@igkv.ac.in

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Sandeep Sharma	I/c Senior Scientist & Head	Agronomy	15600-39100 +(5400)	06.09.2012	19.10.2018	07999504630	UR	
2	Subject Matter Specialist	Dr. Sandeep Sharma	Subject Matter Specialist	Agronomy	15600-39100 +(5400)	06.09.2012	19.10.2018	07999504630	UR	
3	Subject Matter Specialist	Shri P.K. Lakra	Subject Matter Specialist	Agril. Extension	15600-39100 +(5400)	30.09.2014	17.01.2018	09575617879	ST	
4	Subject Matter Specialist	Dr. C.P. Rahangdale	Subject Matter Specialist	Forestry/ Agroforestry	15600-39100 +(5400)	09.10.2018	09.10.2018	09713633645	UR	
5	Subject Matter Specialist	Sh. Surya Prakash Gupta	Subject Matter Specialist	Entomology	15600-39100 +(5400)	30.10.2018	30.10.2018	9406166385	OBC	
6	Subject Matter Specialist	Dr. Pushpendra Singh	Subject Matter Specialist	Horticulture	15600-39100 +(5400)	22.01.2019	31.10.2019	9406423261	ST	
7	Subject Matter Specialist	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	-	-
8	Programme Assistant	Santosh Kumar Sahu	Programme Assistant	Plant Pathology	25780/- (Fixed)	02.03.2021	02.03.2021	08817004770	UR	
9	Computer Programmer/ PA	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	-	-
10	Farm Manager	Dr. S.C. Pankaj	Agronomy	Agronomy	9300-34800+(4200)	06.11.2019	06.11.2019	08085321001	SC	
11	Assistant	Nitin Shakya	AG II	Comp. Sc.	18420/- (Fixed)	21.06.2021	21.06.2021	08602400968	UR	
12	Jr. Stenographer / Comp. Operator	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	-	-
13	Driver	Vivek Kumar Rajwade	Driver	12 th	14200/- (Fixed)	03.02.2021	03.02.2021	07049252684	UR	
14	Driver	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	Vacant	-	-
15	Supporting staff	Sarveshwar Chaudhary	Peon	Art	11360/- (Fixed)	02.02.2021	02.02.2021	06260011128	UR	

16	Supporting staff	Sainath Panna	Peon	Science	11360/- (Fixed)	03.02.2021	03.02.2021	07828948706	ST	

1.3 Total land with KVK (in ha): 19.64

S. No.	Item	Area (ha)
1	Under Buildings/Road	4.00
2	Under Demonstration Units	1.00
3	Under Crops	10.64
4	Orchard/Agro-forestry	3.00
5	Others (Ponds)	1.00
Total		19.64

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs. in Lakh)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	Work continue	665 Sqm	100.4031	15.07.2021	-	Completed
2	Farmers Hostel	ICAR	Work continue	350 Sqm	68.40	30.07.2021	-	Completed
3	Staff Quarters (6)	NA	-	-	-	-	-	-
4	Demonstration Units (3)	-	-	-	-	-	-	-
4.1	Kadakhnath Unit	DMF	Completed	200 Sqm	4.28	01.11.2021	-	-
4.2	Dairy Unit	Rec.	Completed	300 sqm	-	30.07.2022	-	-
4.3	Mushroom spawn and composting unit	NHM	Work continue	280 sqm	33.2500	01.08.2022	-	Completed
5	Fencing	VV receipt	15.06.2021	2 km	8.0	01.06.2021	-	Completed
6	Rain Water harvesting system	NA	-	-	-	-	-	-
7	Threshing floor	ICAR	29.12.2023	484 sqm	3.50	22.11.2023	-	Completed
8	Farm godown	ICAR	Work continue	294.32 sqm	60.00	0106.2021	294.32 sqm	Completed

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2019	5.43809	1256 hr	Engine problem
Motor Cycle 2	NA	-	-	-
Bolero(Jeep)	2018	7.74890	215475	Engine problem
Other (Trolley)	2019	1.50000	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector (Sonic)	2019	0.44990	Working
LED TV (Crown) 43 inch	2019	0.27500	Working
Camera (Nikon) DSLR	2019	0.49890	Working
Desktop (Hp)	2019	0.49165	Working
Desktop (Hp)	2019	0.48900	Working
Desktop (Hp)	2019	0.49750	Working
Desktop (Hp)	2019	0.47385	Working
Desktop (Hp)	2022	0.51850	Working
Desktop (Hp)	2023	0.56900	Working
Desktop (Hp)	2023	0.48500	Working
Over head Projector	2023	0.94248	Working
Laptop	2023	0.59800	Working
Printer (Hp)	2018	0.17500	Working
Printer (Hp)	2018	0.13000	Working
Printing Machine (Samsung)	2019	0.49990	Working
Printer (Hp)	2019	0.15190	Working
Printer (Hp)	2019	0.9990	Working

Printer colour (canon)	2022	0.14500	Working
Printer (Hp)	2021	0.17500	Working
Printer	2023	0.12900	Working
Amplifier set WSL	2019	0.37200	Working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	15.06.2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	Cereal based (AES – 1 North Hill Zone of Chhattisgarh)	Rice-Fallow Maize-Fallow Maize/Black gram-Wheat Buckwheat- fellow Finger millets- fellow
2	Pulse based (AES – 1 North Hill Zone of Chhattisgarh)	Black gram-wheat Rice-Chickpea
3	Oilseed based (AES – 1 North Hill Zone of Chhattisgarh)	Groundnut-Fallow Rice-Linseed/Mustard/Niger
4	Sugarcane based (AES – 1 North Hill Zone of Chhattisgarh)	Sugarcane
5	Vegetable based (AES – 1 North Hill Zone of Chhattisgarh)	Potato, Tomato, Brinjal, Chilli, Cauliflower, cabbage, cucumber, bitter guard, onion, leafy vegetables
6	Tuber and spices based (AES – 1 North Hill Zone of Chhattisgarh)	Turmeric, Ginger and coriander
7	Dairy based (AES – 1 North Hill Zone of Chhattisgarh)	Cow and Buffalo
8	NTFP based (AES – 1 North Hill Zone of Chhattisgarh)	Lac, Harra, behra, Tendu, Honey, Bamboo, sal seeds, Imli and Mahua collection, medicinal and aromatic plants etc
9	Other enterprises (AES – 1 North Hill Zone of Chhattisgarh)	Mushroom production (Oyster and Button both), value addition of scented rice, Soap making, value addition of millets

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 North Hill Zone of Chhattisgarh	- Geography of Surguja District is spread over high lands, plateaus, hills and plain lands. - A huge portion of its total area is covered by forests. The major rivers flowing through the district are Kanhar, Moran, Rihand River and Mahan. These are eroded hilly soils which are covered mostly by forest, Goda/Tikra (light soils), Goda Chawar (Medium), Chawar and Bahra soils. Chawar soils are found in low land bunded fields where rice is grown. In bahra soils (extreme lowlands) water flows continuously till January. - The climate of the district basically includes hot summer and even distributed rainfall in the monsoon season. - The region falls in the Tropical Thermal belt. - Soils of Surguja District are classified in four major classes and these are Red and Yellow Soils, Alluvial Soil, Laterite Soil and Black Soil.

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 North Hill Zone of Chhattisgarh

Strength	Weakness	Opportunities	Threats
Potential area for cultivation of cereals,	Non availability of high yielding improved variety of	Improvement in the productivity of pulses, cereal and oilseeds.	Erratic rainfall (Untimely and

pulses and oilseeds due to suitable agro climatic condition. - Potential area for cultivation of millets and scented rice. - Potential area for cultivation of temperate fruit (Pear & peach) in Pat (hilly) area and Litchi, Mango, Guava in plan area due to suitable agro climatic condition. - Suitable climate condition for cattle, goat and poultry rearing - Suitable climatic condition for other enterprises like mushroom production, Bee keeping, NTFP etc.	agriculture crops. - Poor soil fertility management unawareness about green Manuring, composting techniques. - Imbalance use of fertilizers and insecticide especially blind use of urea. - Reluctance of farmers towards modern varieties and their POP, faith in traditional or old varieties. - Scarcity of water. - Cultivation with very low input and unawareness /negligence for use of available natural resources. - Unaware about agriculture mechanization.	- Horizontal spread of temperate fruit (pear and peach) to the farmer's field. - Scope for promotion of natural farming and its trade at national and global level - Promotion of horticultural crops, fruits and vegetables in different pocket of the district. - Favorable condition for promotion of the NTFP, medicinal and aromatic crops and spices in the district. - Improvement in the production of cattle, goat and poultry. - Scope for value addition of local agriculture produce like Potato, scented rice, litchi, buckwheat etc.	unseasonal) which causes soil loss and severe infestation of insect pest and diseases - Frosty weather condition during winter which causes crop loss and attack of insect and pest result into poor productivity - Crop destruction by elephant.

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	1034.3
Forest	203.1
Cultivable waste and alkaline land	50.5
Pastures	183.8
Current Fallow	55.9
Other Fallow	34.2
Agricultural Land	620.6
Area Sown	508.8
Kharif	-
Rabi	-
Zaid	-
Cropping Intensity (%)	121.9

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	5093
2	Well	1381
3	Tube well	519
4	Ponds	420
5	Others	1473

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Red and Yellow Soils	- This soil comprises particularly in the east Sitapur and south Ambikapur blocks. - Red color is due to wide diffusion of iron. Hydration of ferric oxide results yellow color of soil. - This soil is of lighter in texture, porous and friable structure. - Soluble salt is found in little quantity. Lime, kankar and free kankar are totally absent. - These soils are poor in potash, nitrogen, humus and carbonate and differ greatly in consistency, color, depth and fertility. - On the uplands they are thin and gravelly, sandy, porous and light colored.	-

2	Alluvial Soils (Kachhar)	- Such soils are found in the river sides and are generally transported soil with alternative layers of sand and silt. - These soils contain adequate amounts of potash and limes but are deficient in nitrogen, phosphoric acid and humus. - North Ambikapur, Lakhanpur are areas of alluvial soil in their river vicinity i.e. the Rihand, the Kanhar, the Hasdo and their major tributaries. - There is no uniformity in color everywhere but it's color varies from yellow to grey.	-
3	Laterite Soils	- These soils are well developed on the summits of the pat regions of Mainpat and, Batauli, Sitapur blocks, On the basis of color Laterite soil can be divided as (i) Dark red Laterite (ii) White Laterite. - It is the end product of decomposition found in region of heavy rainfall which promotes leaching of soil whereby lime and silica are leached away and a soil rich in oxide of iron and aluminum composed is justify behind. - Owing to the presence of iron oxides they are generally red in color and poor in nitrogen, potash, potassium and organic matter.	-
4	Black Soils (Mediumblue Soils)	- Mediumblue soils consist of deep Mediumblue, medium Mediumblue, shadow Mediumblue and Mediumblue soils undifferentiated etc. - These soils are highly retentive of moisture and extremely compact and tenacious when wet. - They are rich in iron, lime, calcium, magnesium carbonates and alumina, but are poor in phosphorus, nitrogen and organic matter. - This soil claims fine texture with color. Because of retentively of moisture, fines and chemical matters these soils are endowed with inexhaustible fertility.	-

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area ('000 ha')	Production ('000 Metric ton')	Productivity (Q/ha)
During Kharif Season				
1	Rice	81.500	188.672	23.15
2	Maize	18.210	43.066	23.65
3	Buckwheat	2.000	21.517	10.75
4	Other cereals	3.88	4.347	8.60
5	Pigeon pea	10.11	9.45	9.35
6	Black gram + Green gram	9.971	7.893	8.46
7	Other pulse	3.300	1.551	8.33
8	Ground nut	7.320	11.620	15.85
9	Sesame	1.029	0.419	4.08
10	Other oilseed	4.520	1.987	3.50
During Rabi Season				
1	Wheat	13.050	29.484	24.60
2	Maize	2.590	4.526	22.80
3	Rice	1.305	0.445	27.95
4	Chick pea	6.020	5.292	9.50
5	Field pea	5.150	3.591	7.40
6	Lentil	4.600	2.700	6.45
7	Green gram	0.800	0.465	8.35
8	Black gram	1.600	0.782	8.35
9	Horse gram	2.200	1.160	5.65
10	Lathyrus	0.250	0.153	6.65
11	Mustard	13.300	9.650	7.35
12	Linseed	5.800	2.592	5.75
13	Sunflower	0.200	0.038	8.70
14	Groundnut	0.250	0.227	15.85

15	Niger	0	0.266	5.05
16	Sugarcane	2.750	9.364	42.50

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	34.5	21.9	8.2
Feb, 22	32.8	25.8	8.9
Mar, 22	0.0	32.2	14.6
Apr, 22	0.0	39.0	20.2
May, 22	21.0	38.5	22.2
Jun, 22	93.7	36.0	21.8
July, 2022	143.6	30.9	24.9
Aug., 2022	369.2	29.4	23.3
Sept., 2022	406.2	29.7	22.7
Oct. 2022	109.8	28.9	18.7
Nov. 2022	0.0	27.0	11.2
Dec. 2022	0.0	25.7	19.5

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	29647	46.866 MT.	5.589 milk kg
Buffalo	9463	34.16 MT.	4.661 milk kg
Sheep			
Crossbred/ Indigenous	462	Nil MT wool	Nil kg
Goats	288535	14.120 MT	15.988 meet kg
Pigs Crossbred/ Indigenous	12427	0.256	28.271 meet kg
Rabbits	00	00	00
Poultry			
Hens	415218	288.230 Lakh eggs	58.80 eggs/ bird/yr
Turkey and others	0	00	00
Category	Area	Production	Productivity
Fish	-----Data Not Available-----		

Details of Operational area / Villages (2024)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Sitapur	Sitapur	Rajapur	Rice Field pea Wheat	Rice: Pest attack Field pea: Lack of availability HYV Wheat: Imbalance use of fertilizer	IPM Seed replacement INM
2	Sitapur	Sitapur	Dharampur	Rice Lentil Wheat	Rice: Pest attack Lentil: Lack of availability HYV Wheat: Imbalance use of fertilizer	IPM Seed replacement INM
3	Sitapur	Sitapur	Jajga	Rice Mustard	Rice: Pest attack Mustard: Lack of availability HYV	IPM Seed replacement INM
4	Mainpat	Mainpat	Karabel	Rice Mustard Chickpea	Rice: Pest attack Mustard: Lack of availability HYV Chickpea: wilt problem	IPM Seed replacement INM
5	Mainpat	Mainpat	Raghunathpur	Rice Chickpea	Rice: Pest attack Mustard: Lack of availability HYV	IPM Seed replacement INM

Priority /Thrust areas

S. No.	Particulars
1.	Weed management
2.	Nutritional Security
3	Seed replacement- use of high yielding varieties

4	Promotion of small millets
5	Quality Production
6	Crop Diversification
7	Insect Pest & Disease management in Crop
8	Seed Production Technology
9	Promotion & awareness on Natural Farming
10	Awareness on Waste Decomposition
11	Promotion & Awareness on ITK
12	Livestock up gradation and Management
13	Feed Management
14	Nutrient management in crop
15	Promotion of intercropping
16	Value addition & food processing
17	Income Generation
18	Post harvest management practices
19	Promotion & awareness on new technologies in agriculture : protected cultivation, drone technology, integrated farming, Resource conservation technology, Cropping System & Water Management
20	Crop Production Technology
21	Improvement of Soil health
22	Collection and value addition of NTFP

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
13	54	18 (07 FLD +11 CFLD)	879 (54+825)

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
42	1850	343	31854

Seed Production (Qtl.)	Planting material (Nos.)
385	4200

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Promotion and awareness organic farming	Scented rice	Low yield & crop lodging	Assessments of organic manure on production and productivity of scented Rice	-	Training on organic farming and production technology of rice	-	Awareness program, media	Seeds
2	Seed replacement- use of high yielding varieties	Buckwheat	Low yield due to local variety	Varietal assessment of Buckwheat crop	-	Buckwheat production	-	Awareness program, media	Seeds
3	Promotion and awareness of Natural farming	Finger millets	Low yield	Assessments of natural farming on yield of Finger millet	-	Production technology of Small millets	Production technology of Small millets	Awareness program, media	Seeds
4	Promotion of Agroforestry/ crop diversification	Maize, mustard & Pear	Lack of information about tree-crop compatibility and economic viability of Agroforestry systems	Assessment of maize-mustard cropping under Pear based Agrihorticulture system	-	Fruit based Agroforestry management	-	Awareness program, media	Seeds of crops
5	Promotion of Agroforestry/ crop diversification	Maize, Mustard, Litchi and Pear	Lack of information about tree-crop compatibility and economic viability of Agroforestry	Assessment of Litchi based Multistoried Agrihorticulture systems	-	Fruit based Agroforestry management	-	Awareness program, media	Seeds of crops

			systems						
6	Income generation from NTFP	Lac production and Mahua	Lack of information about the scientific lac cultivation including host plant, pruning management, and protection measures during lac production.	Assessment of scientific cultivation method of Lac production on Kusum	Demonstration of safe collection method of Mahua	Production and collection of NTFP	-	Awareness program, media	Brood lac, and Net
7	Seed replacement- use of high yielding varieties	Colocasia (Arbi)	Low yield due to use of local and less yielding varieties	Assessment of improved variety of Colocasia	-	Production technology of arbi	-	Awareness program, media	Seeds
8	Promotion improved variety with systematic plantation	Pear	Low yield due to local variety or fellow	-	Demonstration of temperate fruits (Pear) plantation at farmers fields	-	-	Awareness program, media	-
9	Promotion of high tech vegetable production and plant protection	Grafted Tomato	High infestation of wilt disease in tomato	Assessment of grafted tomato against wilt	-	Training on production tech. of grafted technology	-	Awareness program, media	Planting materials
10	Promotion of IPM in vegetable production	Chilli	High infestation of thrips in chilli crop	Assessment of integrated pest management against Chilli thrips	-	Training on IPM	-	Awareness program, media	Seeds, pesticides & Traps
11	Social media and ICT	-	Farmers low level uses of social media	Assessment of Social media utilization pattern of farmers	-	-	-	Awareness program, media	-
12	Improve pesticides uses knowledge	Rice	Lack of pesticides uses pattern knowledge on rice crops production	Assessment on pesticides uses pattern of rice crops on farmers	-	-	-	Awareness program, media	-
13	Improve fungicides uses pattern of tomato crops	Tomato	High infestation of phytophthora root rot disease in tomato	Assessment on fungicides usage pattern of tomato farmers on phytophthora root rot	-	-	-	Awareness program, media	-
14	Improve insecticides usage pattern of brinjal crops	Brinjal	High infestation of fruit borer in brinjal	Assessment of insecticides usage pattern of Brinjal crops on farmers	-	-	-	Awareness program, media	-
15	Seed replacement	Rice	Low yield	-	Demonstration	Training on	Awareness on	Awareness	Seeds

	nt- use of high yielding varieties				of improved variety of Rice	production technology of rice	production technology of rice	program, media	
16	Seed replacement- use of high yielding varieties	Late sown wheat	Low yield	-	Demonstration of improved variety of Wheat for late sown condition	Training on production technology of Late sown wheat	Awareness on production technology of Late sown wheat	Awareness program, media	Seeds
17	Weed management	Wheat	Heavy infestation of weeds in wheat	-	Demonstration of chemical herbicide for weed management in Wheat	Training on production technology of Late sown wheat	Awareness on production technology of Late sown wheat	Awareness program, media	Seeds & weedicides
18	Integrated disease management	Tomato	Low yield due to wilt infestation in Tomato	-	Demonstration on Bacterial wilt management in Tomato	Training on bacterial wilt management	-	Awareness program, media	Seed and fungicides
19	Promotion of high tech vegetable production and plant protection	Watermelon	Low yield	-	Demonstration of hybrid variety of Water Melon (<i>Citrullus lanatus</i> Thunb. Matsum & Nakai)	Training on high tech vegetable production and plant protection	-	Awareness program, media	Seed and mulching

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals/ millets	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Organic farming	01 Rice	-	-	-	-	-	-	-	-	01
Natural farming	01 Finger millet	-	-	-	-	-	-	-	-	01
Crop production	03 Wheat & Paddy	-	-	1 Social media	-	-	-	-		04
Varietal assessment	02 Buckwheat & Rice	-	-	-	01 Watermelon	-	-	-	01 Colocasia	04
Integrated disease management	01 Rice	-	-	-	04 Tomato, Chilli, Brinjal	-	-	-	-	05
Agroforestry	-	-	-	02		03	-	-	-	05

OFT-4

Crop / Enterprise	Maize, mustard & Pear	
Title of on farm trial	Assessment of maize-mustard cropping under Pear based Agrihorticulture system.	
Problem diagnosed	Lack of information about tree-crop compatibility and economic viability of Agroforestry systems	
Farmers' Practices	Sole cropping	
Details of technologies selectedfor assessment	T ₁	Sole cropping
	T ₂	Pear + Maize-Mustard based Agrihorticulture system (Pear spacing: 6m x 6m)
Source of technology	IGKV, PRS, Mainpat	
Plot size	0.3 ha	
No. of farmers	03	
Total cost	10000.00	
Critical input	Seed, fungicide and insecticide	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	-	

OFT-5

Crop / Enterprise	Maize, Mustard, Litchi and Pear	
Title of on farm trial	Assessment of Maize-Mustard cropping under Litchi based Multistoried Agrihorticulture systems	
Problem diagnosed	Lack of information about tree-crop compatibility and economic viability of Agroforestry systems	
Farmers' Practices	Sole cropping	
Details of technologies selectedfor assessment	T ₁	Sole cropping
	T ₂	Litchi-Pear + Maize-Mustard based Intercropping (Litchi spacing: 8m x 8m and Pear in between Litchi))
Source of technology	IGKV, PRS, Mainpat	
Plot size	0.3 ha	
No. of farmers	03	
Total cost	10000.00	
Critical input	Seed, fungicide and insecticide	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	-	

OFT-6

Crop / Enterprise	Lac production	
Title of on farm trial	Assessment of scientific cultivation method of Lac production on Kusum	
Problem diagnosed	Lack of information about the scientific lac cultivation including host plant, pruning management, and protection measures during lac production.	
Farmers' Practices	Traditional method of lac production	
Details of technologies selectedfor assessment	T ₁	Traditional method of lac production
	T ₂	Scientific cultivation method of lac production
Source of technology	ICAR-IINRG, Ranchi	
Plot size (02 tree/farmers)	02	
No. of farmers	03	
Total cost	Rs.12000.00	
Critical input	Brood lac & insecticide	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	-	

OFT-7

Crop / Enterprise	Colocasia (Arbi)	
Title of on farm trial	Assessment of improved variety of Colocasia	
Problem diagnosed	Low yield due to use of local and less yielding varieties.	
Farmers' Practices	Farmer practice- local variety	
Details of technologies selectedfor assessment	T ₁	Farmer practice- local variety
	T ₂	Improved variety- Indira Arbi with recommended package of practice
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	05	
Total cost	Rs. 20000.00	
Critical input	Seed and fungicide	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	-	

OFT-8

Crop / Enterprise	Grafted Tomato	
Title of on farm trial	Assessment of grafted tomato against wilt	
Problem diagnosed	High infestation of wilt disease in tomato	
Farmers' Practices	Farmer practice- Use of fungicide	
Details of technologies selectedfor assessment	T ₁	Farmer practice- Use of fungicide
	T ₂	Improved variety against wilt (Arka Rakshak)
	T ₃	Grafted tomato seedling against wilt
Source of technology	IIVR, Varanasi, UP	
Plot size	0.1 ha	
No. of farmers	05	
Total cost	Rs. 60000.00	
Critical input	Seedlings	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	-	

OFT-09

Crop / Enterprise	Chilli	
Title of on farm trial	Assessment of integrated pest management against Chilli thrips	
Problem diagnosed	High infestation of thrips in chilli crop	
Farmers' Practices	Farmer practice- Use of fungicide	
Details of technologies selectedfor assessment	T ₁	Chemical Spray (Imidachlorpid @ 1ml / 2.5 liter water)
	T ₂	Integrated Pest Management 1. Blue Sticky trap 15 nos. per acre 2. Trap crop (Marigold) 3. Leaf extract (Dasparni Ark) 4. Bio agent (<i>Beauveria bassiana</i> , <i>Metarhizium anisoplie</i> @10 ml per liter of water)
Source of technology	IIVR, Varanasi, UP	
Plot size	0.2 ha	
No. of farmers	05	
Total cost	Rs. 19500.00	
Critical input	Seed, Blue sticky traps, Bio agents etc	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	-	

OFT-10

Title of on-farm trials	Assessment of Social media utilization pattern of farmers.
Season & Year	2024
Problem identified	Farmers low level uses of social media.
Thematic Area	Social media and ICT.
Farming situation	farmers uses media.
Name of Technology intervention under study	T1: Survey to farmers uses on social media. T2: Training to farmers on social media uses T3: Training to farmers on social media uses and follow-up and take feedback.
Farmers Practise	Farmers use own knowledge
No. Of replication (Farmers)	60 [(T1-20 farmers), (T2-20 farmers), (T3-20 farmers)]
Performance indicators	Unit/ details
1-Availability of social media. 2-Association of pattern of uses different media. 3-Purpose of uses social media. 4- Duration of uses social media. 5-Farmers knowledge on social media.	- - - - -

OFT-11

Title of on-farm trials	Assessment on pesticides uses pattern of rice crops on farmers.
Season & Year	2024
Problem identified	Lack of pesticides uses pattern knowledge on rice crops production
Thematic Area	Improve pesticides uses knowledge
Farming situation	Farmers use pesticides.
Name of Technology intervention under study	T1 - Survey to farmers pesticides uses pattern of rice crops. T2- Provide training to farmers on pesticides uses pattern of rice crops. T3 -Provide training to farmers for practical and demonstration based pesticides uses pattern of rice crops and follow-up and take feedback.
Farmers Practise	Farmers use on own knowledge
No. Of replication (Farmers)	60 [(T1-20 farmers), (T2-20 farmers), (T3-20 farmers)]
Performance indicators /Parameters	Unit/ details
1-Usage on different insecticides . 2-Insecticides usage pattern . 3-Knowledge level of rice farmers on pesticides handling and safety measures. 4- Farmers perception of insecticides usage.	- - - -

OFT-12

Title	Assessment on fungicides usage pattern of tomato farmers on phytophthora root rot.
Season & Year	2024
Problem identified	High infestation of phytophthora root rot disease in tomato.
Thematic Area	Improve fungicides uses pattern of tomato crops
Farming situation	farmers grow tomato crops.
Name of Technology intervention under study	T1 -Survey on farmer's fungicides uses pattern of tomato crops. T2- training to farmers on fungicides uses pattern of tomato crops. T3- training to practical and demonstration based to farmers on fungicides usage pattern of tomato crops and follow-upand take feedback.
Farmers Practice	Farmers use on own knowledge.
No. of replication (Farmers)	60 [(T1-20 farmers), (T2-20 farmers), (T3-20 farmers)]
Performance indicators /Parameters.	Unit/ details

1- Usage on different fungicides.	-
2- Fungicides usage pattern.	-
2- Knowledge level of tomato farmers on fungicides handling and safety measures.	-
4-Farmers perception of fungicides usage.	-

OFT-13

Title	Assessment of insecticides usage pattern of Brinjal crops on farmers.
Season & Year	2024
Problem identified	High infestation of fruit borer in brinjal.
Thematic Area	Improve insecticides usage pattern of brinjal crops
Farming situation	Farmers grow tomato crops.
Name of Technology intervention under study	T1 -Survey on farmer's insecticides uses pattern of brinjal crops. T2- training to farmers on insecticides uses pattern of tomato crops. T3- Provide training to practical and demonstration based to farmers on insecticides usage pattern of brinjal crops and follow-up and take feedback.
Farmers Practise	Farmers use on own knowledge.
No. of replication (Farmers)	60 [(T1-20 farmers), (T2-20 farmers), (T3-20 farmers)]
Performance indicators /Parameters.	Unit/ details
1- Usage on different insecticides.	-
2- Insecticides usage pattern.	-
2- Knowledge level of brinjal farmers on insecticides handling and safety measures.	-
4-Farmers perception of insecticides usage.	-

Detailed Information about OFT:

1 Name of Discipline	Agronomy
Title of on-farm trial:	Assessments of organic manure on production and productivity of scented Rice
Year/Season:	Kharif, 2024
Farming situation:	Lowland
Problem diagnosis:	Low yield & crop lodging
Thematic area:	Organic farming
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of imbalance manures and fertilizers
T2 –Recommended Practice-	1/3 rd FYM + 1/3 rd Vermicompost + 1/3 rd green manuring + 10% Cow urine spray (two times)
Date of sowing:	July, 2024
Date of harvesting:	November, 2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Organic farming, Application of FYM and vermicompost
Name of Crop/Enterprises:	Scented Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

2 Name of Discipline	Agronomy
Title of on-farm trial:	Varietal assessment of Buckwheat crop
Year/Season:	Kharif, 2024
Farming situation:	Upland
Problem diagnosis:	Low yield due to local variety
Thematic area:	Varietal assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Local variety
T2 –Recommended Practice-	Improved variety- VL-7 with RDF
Date of sowing:	September, 2024
Date of harvesting:	December, 2024
Source of technology:	VPKAS, Almora (U.K)
Characteristics of technology:	Varietal assessment- improve variety (VL-07)
Name of Crop/Enterprises:	Buckwheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

3 Name of Discipline	Agronomy
Title of on-farm trial:	Assessments of natural farming on yield of Finger millet
Year/Season:	Kharif, 2024
Farming situation:	Upland to midland
Problem diagnosis:	Low yield
Thematic area:	Varietal assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional method
T2 –Recommended Practice-	Line sowing + seed treatment with Beejamrit+ Ghanjeevamrit@250lit/ha+Jeevamrit@500lit/ha twice in month and weed mulch after weeding at 20DAS and 40 DAS should be spared within the row
Date of sowing:	July, 2024
Date of harvesting:	December, 2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Natural farming- Beejamrit, Ghan jeevamrit, mulching etc
Name of Crop/Enterprises:	Finger millet
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

4 Name of Discipline	Agroforestry
Title of on-farm trial:	Assessment of maize-mustard cropping under Pear based Agrihorticulture system.
Year/Season:	Kharif-Rabi, 2024-25
Farming situation:	Upland
Problem diagnosis:	Lack of information about tree-crop compatibility and economic viability of Agroforestry systems
Thematic area:	Agroforestry/crop diversification
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sole cropping (Maize-Mustard)
T2 –Recommended Practice-	Pear + Maize-Mustard based Agrihorticulture system (Pear spacing: 6m x 6m)
Date of sowing:	July, 2024-Maize and November, 2024- Mustard
Date of harvesting:	December, 2024 and March, 2025- Mustard
Source of technology:	IGKV, PRS, Mainpat
Characteristics of technology:	Agroforestry- integrated management of tree and crops
Name of Crop/Enterprises:	Maize, mustard & Pear
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

5 Name of Discipline	Agroforestry
Title of on-farm trial:	Assessment of maize-mustard cropping under Litchi based Multistoried Agrihorticulture system.
Year/Season:	Kharif-Rabi, 2024-25
Farming situation:	Upland
Problem diagnosis:	Lack of information about tree-crop compatibility and economic viability of Agroforestry systems
Thematic area:	Agroforestry/crop diversification
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Sole cropping (Maize-Mustard)
T2 –Recommended Practice-	Litchi-Pear + Maize-Mustard based Intercropping (Litchi spacing: 8m x 8m and Pear in between Litchi)
Date of sowing:	July, 2024-Maize and November, 2024- Mustard
Date of harvesting:	December, 2024 and March, 2025- Mustard
Source of technology:	IGKV, PRS, Mainpat
Characteristics of technology:	Multistoried Agroforestry- integrated management of tree and crops
Name of Crop/Enterprises:	Maize, Mustard, Litchi and Pear
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

6 Name of Discipline	Agroforestry/Forestry
Title of on-farm trial:	Assessment of scientific cultivation method of Lac production on Kusum
Year/Season:	Rabi, 2024-25
Farming situation:	Upland
Problem diagnosis:	Lack of information about the scientific lac cultivation including host plant, pruning management, and protection measures during lac production.
Thematic area:	Income generation
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional method of lac production
T2 –Recommended Practice-	Scientific cultivation method of lac production
Date of sowing:	January, 2024
Date of harvesting:	June, 2024
Source of technology:	ICAR-IINRG, Ranchi
Characteristics of technology:	Scientific cultivation method of lac production
Name of Crop/Enterprises:	Lac production
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

7 Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of improved variety of Colocasia.
Year/Season:	Kharif, 2024-25
Farming situation:	Upland to midland
Problem diagnosis:	Low yield due to use of local and less yielding varieties.
Thematic area:	Varietal assessment
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer practice- local variety
T2 –Recommended Practice-	Improved variety- Indira Arbi with recommended package of practice
Date of sowing:	June, 2024
Date of harvesting:	February, 2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Varietal assessment – improved varieties- Indira arbi
Name of Crop/Enterprises:	Colocasia (Arbi)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

8 Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of grafted tomato against wilt.
Year/Season:	Kharif, 2024-25
Farming situation:	Upland
Problem diagnosis:	High infestation of wilt disease in tomato
Thematic area:	Varietal assessment and Plant protection
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer practice- Use of fungicide
T2 –Recommended Practice-	Improved variety against wilt (Arka Rakshak)
T3- Recommended Practice-	Grafted tomato seedling against wilt
Date of sowing:	July, 2024
Date of harvesting:	November, 2024
Source of technology:	IIVR, Varanasi, UP
Characteristics of technology:	Varietal assessment – improved varieties- Indira arbi
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

9 Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of integrated pest management against Chilli thrips.
Year/Season:	Kharif, 2024-25
Farming situation:	Upland
Problem diagnosis:	High infestation of thrips in chilli crop
Thematic area:	Varietal assessment and Plant protection
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer practice- Chemical Spray (Imidachlorpid @ 1ml / 2.5 liter water)
T2 –Recommended Practice-	Integrated Pest Management 1. Blue Sticky trap 15 nos. per acre 2. Trap crop (Marigold) 3. Leaf extract (Dasparni Ark) 4. Bio agent (<i>Beauveria bassiana</i> , <i>Metarhizium anisoplie</i> @10 ml per liter of water)
Date of sowing:	July, 2024
Date of harvesting:	November, 2024
Source of technology:	IIVR, Varanasi, UP
Characteristics of technology:	Varietal assessment – improved varieties- Indira arbi
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

10 Name of Discipline	Agriculture Extension
Title of on-farm trials	Assessment of Social media utilization pattern of farmers.
Season & Year	2024
Problem identified	Farmers low level uses of social media.

Thematic Area	Social media and ICT.
Farming situation	Farmers use media.
Name of Technology intervention under study	T1: Survey to farmers uses on social media. T2: Training to farmers on social media uses T3: Training to farmers on social media uses and follow-up and take feedback.
Farmers Practise	Farmers use own knowledge
No. Of replication (Farmers)	60 [(T1-20 farmers), (T2-20 farmers), (T3-20 farmers)]
Performance indicators	Unit/ details
1-Availability of social media. 2-Association of pattern of uses different media. 3-Purpose of uses social media. 4- Duration of uses social media. 5-Farmers knowledge on social media.	- - - - -

11 Name of Discipline	Agriculture Extension
Title of on-farm trials	Assessment on pesticides uses pattern of rice crops on farmers.
Season & Year	2024
Problem identified	Lack of pesticides uses pattern knowledge on rice crops production
Thematic Area	Improve pesticides uses knowledge
Farming situation	Farmers use pesticides.
Name of Technology intervention under study	T1 - Survey to farmer's pesticides uses pattern of rice crops. T2- Provide training to farmers on pesticides uses pattern of rice crops. T3 -Provide training to farmers for practical and demonstration based pesticides uses pattern of rice crops and follow-up and take feedback.
Farmers Practise	Farmers use on own knowledge
No. Of replication (Farmers)	60 [(T1-20 farmers), (T2-20 farmers), (T3-20 farmers)]
Performance indicators /Parameters	Unit/ details
1-.Usage on different insecticides. 2-Insecticides usage pattern. 3-Knowledge level of rice farmers on pesticides handling and safety measures. 4- Farmers perception of insecticides usage.	- - - - -

12 Name of Discipline	Agriculture Extension
Title of on-farm trials	Assessment on fungicides usage pattern of tomato farmers on phytophthora root rot.
Season & Year	2024
Problem identified	High infestation of phytophthora root rot disease in tomato.
Thematic Area	Improve fungicides uses pattern of tomato crops
Farming situation	Farmers grow tomato crops.
Name of Technology intervention under study	T1 -Survey on farmer's fungicides uses pattern of tomato crops. T2- training to farmers on fungicides uses pattern of tomato crops. T3- training to practical and demonstration based to farmers on fungicides usage pattern of tomato crops and follow-upand take feedback.
Farmers Practice	Farmers use on own knowledge.
No. of replication (Farmers)	60 [(T1-20 farmers), (T2-20 farmers), (T3-20 farmers)]
Performance indicators /Parameters.	Unit/ details
1- Usage on different fungicides. 2- Fungicides usage pattern. 2- Knowledge level of tomato farmers on fungicides handling and safety measures. 4-Farmers perception of fungicides usage.	- - - - -

13 Name of Discipline	Agriculture Extension
Title of on-farm trials	Assessment of insecticides usage pattern of Brinjal crops on farmers.
Season & Year	2024
Problem identified	High infestation of fruit borer in brinjal.
Thematic Area	Improve insecticides usage pattern of brinjal crops
Farming situation	Farmers grow tomato crops.

Name of Technology intervention under study	T1 -Survey on farmer's insecticides uses pattern of brinjal crops. T2- training to farmers on insecticides uses pattern of tomato crops. T3- Provide training to practical and demonstration based to farmers on insecticides usage pattern of brinjal crops and follow-up and take feedback.
Farmers Practice	Farmers use on own knowledge.
No. of replication (Farmers)	60 [(T1-20 farmers), (T2-20 farmers), (T3-20 farmers)]
Performance indicators /Parameters.	Unit/ details
1- Usage on different insecticides. 2- Insecticides usage pattern. 2- Knowledge level of brinjal farmers on insecticides handling and safety measures. 4-Farmers perception of insecticides usage.	- - - -

FRONTLINE DEMONSTRATIONS

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Rice	Crop Management	Improved variety- Vikram TCR	Seed and Herbicide	Kharif-2024	05 ha	12	Plant height (cm), No. of grains panicle ⁻¹ , no. of tillers hill ⁻¹ , Yield (q ha ⁻¹)
2	Pear	Fruit cultivation	Improved varieties of Pear (Scent Pear) + Planting Geometry- 6m x 6m (Plant x Row)	Blue copper & Insecticides	Kharif, 2024-25 (Perennial)	1.5 ha	03	Growth parameters, No. of fruits tree ⁻¹ , fruit weight and fruit yield kg tree ⁻¹
3	Wheat	Varietal Assessment	Improved variety- Kanishka, line sowing, weed management and insect pest management	Seed and herbicide	Rabi,2024-25	05 ha	12	Plant height (cm), No. of grains panicle ⁻¹ , no. of tillers hill ⁻¹ , Yield (q ha ⁻¹)
4	Wheat	Crop Management	Line sowing and weed management	Seed and herbicide	Rabi,2024-25	05 ha	12	Plant height (cm), No. of grains panicle ⁻¹ , no. of tillers hill ⁻¹ , Yield (q ha ⁻¹)
5	NTFP- Mahua	Resource conservation Technology	Safe collection through Net/plastic sheet	Net/Used Saree	Rabi,2024-25	10 Trees	05	Yield (tree ⁻¹) and economics
6	Tomato	Plant protection (Vegetables)	Seed treatment by trichoderma viridi @ 5 gm kg ⁻¹ seed and soil treatment along with FYM @ 250 kg ha ⁻¹ + 1 kg trichoderma viridi	Planting material, trichoderma, insecticide	Kharif,2024-25	01 ha	05	No. of fruit plant ⁻¹ , Yield (q ha ⁻¹) and B:C ratio
7	Watermelon	High tech vegetable cultivation	Hybrid variety + Drip Irrigation + Mulching + recommended package of practice	Seeds, mulching and fungicides	Rabi 2024-25	01 ha	05	No. of fruit plant ⁻¹ , Yield (kg ha ⁻¹) and B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	06	August, 2024 to March 2025	250
2	Farmers Training	07	August, 2024 to March 2025	350
3	Media coverage	10	August, 2024 to March 2025	Mass
4	Training for extension functionaries	02	August, 2024 to March 2025	50

CLUSTER DEMONSTRATION OF OILSEED AND PULSES UNDER NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Pigeon pea	Crop production	Improved seed, Line sowing, Weed Management with IPM	Seed, culture, weedicide & insecticide	Kharif, 2024-25	30	75	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
2	Black gram	Crop production	Improved seed, Line sowing, Weed Management with IPM	Seed, culture, weedicide & insecticide	Kharif, 2024	30	75	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
3	Horse gram	Crop production	Improved seed, Line sowing, Weed Management with IPM	Seed, culture, weedicide & insecticide	Kharif, 2024-25	30	75	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
4	Lentil	Crop production	Improved seed, Line sowing, Weed Management with IPM	Seed, culture, weedicide & insecticide	Rabi, 2024-25	30	75	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
5	Field pea	Crop production	Improved seed, Line sowing, Weed Management with IPM	Seed, culture, weedicide & insecticide	Rabi, 2024-25	20	50	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
6	Green gram (Summer)	Crop production	Improved seed, Line sowing, Weed Management with IPM	Seed, culture, weedicide & insecticide	Summer, 2024-25	20	50	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
7	Black gram (Summer)	Crop production	Improved seed, Line sowing, Weed Management with IPM	Seed, culture, weedicide & insecticide	Summer, 2024-25	20	50	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
8	Groundnut	Crop production	Improved seed, Line sowing, Micronutrient application, Weed Management with IPM	Seed, culture, weedicide, sulphur & insecticide	Kharif, 2024	20	50	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
9	Niger	Crop production	Improved seed, Line sowing, Micronutrient application, Weed Management with IPM	Seed, culture, weedicide, sulphur & insecticide	Kharif, 2024-25	50	125	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
10	Mustard	Crop production	Improved seed, Line sowing, Micronutrient application, Weed Management with IPM	Seed, culture, weedicide, sulphur & insecticide	Rabi, 2024-25	50	125	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
11	Linseed	Crop production	Improved seed, Line sowing, Micronutrient	Seed, culture, weedicide,	Rabi, 2024-25	30	75	Growth and yield attributes, Yield (q

[illegible]

[illegible]

organic inputs									
Sheep and goat rearing	-	-	-	-	-	-	-	-	-
TOTAL									
(C) Extension Personnel	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
January to December	F&FW	Weed Management	01	-	-	-	-	-	-	40
January to December	F&FW	Resource Conservation Technologies	01	-	-	-	-	-	-	40
January to December	F&FW	Integrated Farming	01	-	-	-	-	-	-	40
January to December	F&FW	Water management	01	-	-	-	-	-	-	40
January to December	F&FW	Seed production	02	-	-	-	-	-	-	80
January to December	F&FW	Integrated Crop Management	04	-	-	-	-	-	-	160
Horticulture										
January to December	F&FW	Off-season vegetables	01	-	-	-	-	-	-	50
January to December	F&FW	Protective cultivation (Green Houses, Shade Net etc.)	01	-	-	-	-	-	-	50
January to December	F&FW	Management of young plants/orchards	02	-	-	-	-	-	-	100
January to December	F&FW	Production and Management technology of spices	01	-	-	-	-	-	-	50
January to December	F&FW	Production and management technology Medicinal and Aromatic Plants	01	-	-	-	-	-	-	50
Livestock production	-	-	-	-	-	-	-	-	-	-
Home Science	-	-	-	-	-	-	-	-	-	-
January to December	F&FW	Household food security by kitchen gardening and nutrition gardening	02	-	-	-	-	-	-	100
January to December	F&FW	Value addition	01	-	-	-	-	-	-	50

January to December	F&FW	Income generation activities for empowerment of rural Women	01	-	-	-	-	-	-	50
January to December	F&FW	Women and child care	01	-	-	-	-	-	-	50
Plant Protection				-	-	-	-	-	-	
	F&FW	Integrated Pest Management	03	-	-	-	-	-	-	150
Agroforestry										
January to December	F&FW	Agro-forestry	04	-	-	-	-	-	-	120
January to December	F&FW	Vermi-compost production	02	-	-	-	-	-	-	100
Soil Science	F&FW			-	-	-	-	-	-	
January to December	F&FW	Soil fertility management	01	-	-	-	-	-	-	50
January to December	F&FW	Soil and Water Conservation	01	-	-	-	-	-	-	50
January to December	F&FW	Integrated Nutrient Management	01	-	-	-	-	-	-	50
January to December	F&FW	Production and use of organic inputs	01	-	-	-	-	-	-	50

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
January to December	F&FW	Weed Management	2	-	-	-	-	-	-	80
January to December	F&FW	Resource Conservation Technologies	1	-	-	-	-	-	-	40
January to December	F&FW	Cropping Systems	1	-	-	-	-	-	-	40
January to December	F&FW	Seed production	3	-	-	-	-	-	-	120
January to December	F&FW	Integrated Crop Management	3	-	-	-	-	-	-	120
Horticulture										
-	-	-	-	-	-	-	-	-	-	-
Livestock production	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
Home Science	-	-	-	-	-	-	-	-	-	-
Plant Protection	-	-	-	-	-	-	-	-	-	-
January to December	F&FW	Integrated Pest Management	01	-	-	-	-	-	-	50
Agroforestry										
January to December	F&FW	Agroforestry	01	-	-	-	-	-	-	30

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
20.11.2024	R. Youth	Natural farming	06	-	-	-	-	-	-	28
Horticulture										
27.11.2024	R. Youth	Vegetable production	06	-	-	-	-	-	-	28
Livestock production										
-	-	-	-	-	-	-	-	-	-	-
Home Science										
Plant Protection										
01.12.2024	R. Youth	IPM in Veg. Production	06	-	-	-	-	-	-	28
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
01.12.2024	R Youth	Organic farming	06	-	-	-	-	-	-	28

Training Programme for Extension Functionaries:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June, 2024	Agriculture Deptt	-	01	-	-	-	-	-	-	50
Horticulture										
July, 2024	Horticulture Deptt	-	01	-	-	-	-	-	-	50
Livestock production	-	-	-	-	-	-	-	-	-	-
Home Science	-	-	-	-	-	-	-	-	-	-
September, 2024	WCD	-	01	-	-	-	-	-	-	100
Plant Protection	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science	-	-	-	-	-	-	-	-	-	-

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/ RY/ EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	18	-	-	670	-	-	20	-	-	690
Kisan Mela	05	-	-	-	-	-	-	-	-	-
Kisan Ghosthi	05	-	-	250	-	-	25	-	-	275
Exhibition	06	-	-	-	-	-	-	-	-	0
Film Show	05	-	-	500	-	-	50	-	-	550
Method Demonstrations	01	-	-	05	-	-	02	-	-	7
Farmers Seminar	01	-	-	50	-	-	05	-	-	55
Workshop	02	-	-	100	-	-	100	-	-	200
Group meetings	05	-	-	250	-	-	20	-	-	270

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Lectures delivered as resource persons	15	-	-	500	-	-	100	-	-	600
Newspaper coverage	50	-	-	-	-	-	-	-	-	-
Radio talks	08	-	-	-	-	-	-	-	-	-
TV talks	05	-	-	-	-	-	-	-	-	-
Popular articles	10	-	-	-	-	-	-	-	-	-
Extension Literature	06	-	-	1000	-	-	500	-	-	1500
Advisory Services	12	-	-	21391	-	-	500	-	-	21891
Scientific visit to farmers field	25	-	-	150	-	-	50	-	-	200
Farmers visit to KVK	50	-	-	2500	-	-	200	-	-	2700
Diagnostic visits	50	-	-	50	-	-	50	-	-	100
Exposure visits	05	-	-	150	-	-	05	-	-	155
Ex-trainees Sammelan	01	-	-	100	-	-	-	-	-	100
Soil health Camp	06	-	-	180	-	-	06	-	-	186
Animal Health Camp	-	-	-		-	-		-	-	0
Agri mobile clinic	-	-	-		-	-		-	-	0
Soil test campaigns	-	-	-		-	-		-	-	0
Farm Science Club Conveners meet	-	-	-		-	-		-	-	0
Self Help Group Conveners meetings	12	-	-	200	-	-	20	-	-	220
Mahila Mandals Conveners meetings	02	-	-	100	-	-	05	-	-	105
Celebration of important days(specify)	08	-	-	400	-	-	50	-	-	450
Others (Awareness programme (Swakshta pakhwada, Parthenium eradication awareness etc)	30	-	-	1500	-	-	100	-	-	1600
Total	343	0	0	30046	0	0	1808	0	0	31854

TARGET FOR PRODUCTION AND SUPPLY OF TECHNOLOGICAL PRODUCTS

Seed Materials

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	Vikram TCR	150 qt
	Finger millet	CG Ragi 2	50 qt
	Wheat	Kanishka	50 qt
OILSEEDS	Linseed	RLC 133	10 qt
	Mustard	CG sarson	20 qt
	Niger	JNS 30	10 qt
VEGETABLES/SPICES	Turmeric	Rajendra sonali	50 qt
	Coriander	CG Dhania 01	05 qt
	Potato	Kufri Jyoti	40 qt
	Total		385

Planting Materials

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava	L-49	1000
	Citrus	Kagji lime	500
	Papaya	H. hybrid	1000
	Drumstick	ODC-3	1000
FOREST SPECIES	Khamar	Local	500
	Bamboo	B. Balcooa	200
	Total		4200

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	01	100
2	Rhizobium	-	01	100
BIOFERTILIZERS	-	-	-	-

1	Vermicompost	-	01	20000
BIO PESTICIDES	-	-	-	
1	Dasparni arkl	-	-	-
2	Pesticides	-	-	-

Livestock

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Cow	Sahiwal	02	1000 milk
POULTRY	Hen	Colored bird	01	800
FISHERIES	Fish	Rohu katla	01	100

LITERATURE TO BE DEVELOPED/PUBLISHED

KVK News Letter

Date of start	Periodicity	Number of copies to be published
01.01.2025 to 31.03.2025	Quarterly	100
01.04.2025 to 31.06.2025	Quarterly	100
01.07.2025 to 30.09.2025	Quarterly	100
01.10.2025 to 31.12.2025	Quarterly	100

Details of Electronic Media to be produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD	Technology transferred from KVK	02

Success stories/Case studies identified for development as a case: CFLD and STRY (No.- 04)

Indicate the specific training need analysis tools/methodology followed for (Viz PRA, AES, line dept, ex trainees, interface)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Survey, line dept, ex trainees, interface
2	Rural Youth	Survey, line dept, ex trainees, interface
3	In-service personnel	Survey, line dept, ex trainees, interface
4	methodology for identifying OFTs/FLDs	Survey, line dept, ex trainees, interface

FIELD ACTIVITIES

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Dharampur	Sitapur	20
2	Balampur	Batauli	16
3	Bamlaya	Sitapur	10
4	Dekidoli	Sitapur	35
5	Sedam	Batauli	25
6	Devgarh	Sitapur	12
7	Mangari	Sitapur	15
8	Kot-Vandana	Mainpat	12
9	Rajapur	Mainpat	16
10	Kuniakala	Mainpat	30
11	Keshra	Mainpat	38
12	Darima	Ambikapur	65
13	Raghunathpur	Lundra	45
14	Jajga	Mainpat	20
15	Karabel	Mainpat	13
16	Narbadapur	Mainpat	55
17	Rajapur	Mainpat	15
18	Balampur	Batauli	24
19	Beljor	Sitapur	15
20	Soor	Sitapur	05
21	Pukhsari	Batauli	25
22	Suvarpara	Batauli	25

23	Petla	Sitapur	15
24	Jangalpara	Mainpat	15
25	Pedia	Mainpat	12

1. No. of farm families selected per village : 50

2. No. of survey/PRA to be conducted: 20

ACTIVITIES OF SOIL AND WATER TESTING LABORATORY

Year of establishment: Nil

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	-	-	-

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	-	-	-	-
Water Samples	-	-	-	-
Total	-	-	-	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
ATARI, Jabalpur	Meetings, Reporting, Documentation, Awareness, Workshops, Seminars, Trainings & Mandatory Activities
DES, IGKV, Raipur	Meetings, Reporting, Documentation, Awareness, Workshops, Seminars, Trainings & Mandatory Activities
RMDCARS, Ambikapur	Technical support
KVK of north zone Chhattisgarh (KVK, Korea, Ambikapur, Jashpur, Balrampur)	Exposure visits, Meetings, exchange of technologies
PRS, Mainpat	Exposure visits, Meetings, exchange of technologies
District Administration, Surguja	Capacity building programmes and demonstration
MANAGE Hyderabad	Skill development training of rural youth
District Horticulture Department	Capacity building programmes
District Agriculture Department	Capacity building programmes and demonstration, Farm School and Farmer Scientist Interface
District Veterinary Department	Capacity building programmes
District Fishery Department	Capacity building programmes

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district No

Name of Programme	Nature of linkage
-	-

b) Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

ACTION PLAN FOR FLAGSHIP PROGRAMMES IMPLEMENTED AT KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
January 2025 to December 2025	Demonstration of Agri drone at farmers field and natural Farming	100

PLANNING FOR CROP CAFETERIA

Total Area of Crop cafeteria: 800 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	Indira aerobic, Indira Sughandit, Vikram TCB, MTU 1010, Jeeraphool, Sorna	Varietal performance	400
Finger millet	Kharif	Indira Ragi-01, C.G. Ragi-02 and C.G. Ragi-03	Varietal performance	400
Wheat	Rabi	CG gehu 03, CG gehu 04, Kaniska, CG 1023, CG 1044, CG 1036, CG 1040,	Varietal performance	400
Potato	Rabi	TPS Red 01, TPS White 03, Baigni Nilkanth, Kufri Jyoti	Varietal performance	100
Mustard	Rabi	CG Sarson, DRMR IJ 31	Varietal performance	100
Linseed	Rabi	RLC 133, RLC 148	Varietal performance	100
Coriander	Rabi	CG Shri Chandrahasni Dhania 2, CG Dhania 02	Varietal performance	100

DETAILS OF DEMONSTRATION UNIT AT KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Natural farming unit	Bijamrit, Jivamrit, Nimastra, Ghanjivamrit production tanks	100	400 ltr
Vermicompost unit	Production of vermicompost and verms	500	150 qts
Kadaknath Unit	Kadaknath	50	1000 chicks
Mushroom spawn lab	Mushroom spawn	200	Mushroom spawn-500 kg
IFS unit	Fish cum duck farming	900	Fish- 100 kg Duck egg- 500
Cattle unit	Sahiwal breed	300	Milk- 500 ltr
Nursery	Guava, citrus, Papaya, Drumstick, Bamboo, Khamar	2000	Seedlings 4200

ANNUAL ACTION PLAN 2024

KVK Mungeli

Year of sanction: 2017

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr R L Sharma		94242-82585	kvk.mungeli@igkv.ac.in

1.2 Staff Position on (31th Dec.2023)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. R.L. Sharma	Sr. Scientist & Head	Plant Pathology	131400-217100 + 9000 AGP 161600	01.09.2012	2019	9424282585	ramlaxmansharma@yahoo.com	
2	Subject Matter Specialist	Mr. S.K. Lahre	SMS	Plant Pathology	56100-177500 +5400 AGP 73200	10.09.2012	2017	9406374911	sklahre7@gmail.com	
3	Subject Matter Specialist	Ms. Pramila Jogi	SMS	Horticulture	56100-177500 +5400 AGP 73200	12.09.2012	2017	7610445657	pramilajogi07@gmail.com	
4	Subject Matter Specialist	Shri P.K. Singh	SMS	Fisheries	56100-177500 +5400 AGP 73200	21.09.2012	2017	9827158778	singhpk_aqua@yahoo.co.in	
5	Subject Matter Specialist	Mrs. Neha Lahre	SMS	Agricultural Extension	56100-177500 +5400 AGP 69000	27.09.2014	2017	7999496407	system.neha@gmail.com	
6	Subject Matter Specialist	Miss Pallavi Portey	SMS	Soil water Engineering	56100-177500 +5400 AGP 56100	13.09.2023	2023	9098752797		
7	Subject Matter Specialist	Dr T. K Dewangan	SMS	Soil Science	56100-177500 +5400 AGP 56100	14.09.2023	2023	7987780698		
8	Programme Assistant	-	-	-	-	-	-	-		
9	Computer Programmer	Shri G. Tondon	PA (Computer)	Programming in JAVA	9300-34800+4200 AGP 47600	13.09.2012	2017	9827991776	gajendra.tandon@gmail.com	
10	Farm Manager	Dr. Naveen Markam	Farm Manager	Plant Breeding & Genetics	9300-34800+4200 AGP 35400	04.11.2019	2019	9977800420	navi88gpb@gmail.com	
11	Assistant	Amarjeet Jaiswal	AG-I	B.Com	26000	27.09.2023	2023	8223080861		
12	Jr. Stenographer / Comp. Operator	Miss Shraddha Sahu	AG-II	Graduation	22500	24.01.2024	2024	9009397486		
13	Driver	Shri Jairam Yadav	Driver		5200-20200+1900 AGP 25400	01.04.2013	2017	7869262010		
14	Driver	Govind Kumar	Driver	H.S.C	18000	14.08.2023	2023	6268327697		
15	Supporting staff	Pushpendra Yadav	Chowkidar	H.S.C	14400	14.08.2023	2023	7724018163		
16	Supporting staff	Jitendra Shriwas	Peon	Graduation	14000	01.09.2023	2023	7987114999		

1.3 Total land with KVK (in ha): 17.38

S. No.	Item	Area (ha)
1	Under Buildings	1.886
2	Under Demonstration Units	1.10
3	Under Crops	14
4	Orchard/Agro-forestry	4.85
5	Others (specify)	0.40
Total		17.38

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	June 2023	8500		22 Feb 2020		Completed
2	Farmers Hostel	ICAR	June 2023	6000		27 Dec 2020		Under construction
3	Staff Quarters (6)	-						
4	Demonstration Units (2)							
5	Fencing	MGNREGA	June 2020	1500		Jan 2020		Completed
6	Rain Water harvesting system							
7	Threshing floor	-						
8	Farm godown	-	Nov 2020-21	2400		Dec 2019		Completed

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2019	8,15,182	1838 hr	Good
Motor Cycle 2				
Bolero(Jeep)	2019	7,74,890	102793 km	Good
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Conference sound system	2024	250000	Working condition

1.5.(A). Details of SAC meeting to be conducted in the year

KVK Name	Tentative date
Mungeli	August 2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Field crop + Livestock
2	AES – 2	Field crop + Horticultural + Livestock
3	AES – 3	Field crop + Livestock + Fisheries
4		
5		
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 CG Plain	Knolls, undulating interfluvies and valleys flanked by belts of clayey, hot and dry climate with 1000-1200 mm rainfall
2	AES - 2	
3	AES – 3	
4	AES – 4	
5	AES – 5	
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
Good fertile soil (Vertisol)	Slow infiltration rate	Good soil for pulses and oilseed crops	Soybean productivity has been decreased, wilting problem in pulses

AES-2 (name)

Strength	Weakness	Opportunities	Threats
Good irrigation facility	-	Possibility to increase the cropping intensity of the district	-

AES-3 (name)

Strength	Weakness	Opportunities	Threats
Good mechanized farming	Less availability of farm implements	Good opportunity to establish custom hiring center	Use of heavy farm implement cause the soil compaction

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	275.036
Forest	111.094
Waste Land	-
Other than cultivated area	-
Cultivable waste and alkaline land	Nil
Pastures	-
Bushes	-
Current Fallow	-
Other Fallow	-
Agricultural Land	-
Area Sown	224.186
Kharif	128.750
Rabi	96.293
Zaid	-
Cropping Intensity	183.26%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	51.423
2	Well	0.431
3	Tube well	16.491
4	Ponds	0.040
5	Others	-

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Bhata/ Entisol/ Upland	Ph-5-5.5, low WHC, Deficient N,P, TRACE elements	19293 (7 %)
2	Matasi/ Inseptisol/ Unbunded sloppy	Light textured, physical properties and fertility better than bhata soil	7500 (2.72 %)
3	Dorsa/ Alfisol/ Midland	Ph 6-6.5, medium in WHC,	9449 (3.4%)
4	Kanhar/ Vertisol/ Lowland	Ph 7.5-8.5, Alakaline, K medium to high and N,P low to medium	100565 (36.57%)

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	1,15,838	309867	2675
2	Lathyrus	62,521	41249	650
3	Chickpea	11,528	16946	1470
4	Soybean	5,837	8347	1430
5	Wheat	5,608	8524	1520

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 2023	8.9	28.2	7.3
Feb, 2023	21.2	30.5	14.5
Mar, 2023	3.5	35.2	19.2
Apr, 2023	4.8	38.6	22.3
May, 2023	15.3	44.3	27.8
Jun, 2023	218.9	42.2	25.4
July, 2023	372	39.8	22.5
Aug., 2023	310	32.5	20.2
Sept., 2023	159	31.6	20.5
Oct. 2023	53	29.8	12.5
Nov. 2023	11.6	25.5	10.5
Dec. 2023	9.5	19.8	8.5

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	130024	2014.32 MT.	15 kg
Buffalo	47766	77.58 MT.	1.6 kg
Sheep			
Crossbred/ Indigenous	0	0... MT wool	...0.... kg
Goats	30624	88.71 MT	2.8 kg
Pigs Crossbred/ Indigenous	0	0	0
Rabbits	0	0	0
Poultry			
Hens	32626	5.63 Lakh eggs	eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	3842. (ha)	7416 Q/ month	23.16 Q/ ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Mungeli	Mungeli	Banki	Paddy, Lathyrus, Chickpea, Wheat		
2	Mungeli	Mungeli	Chamari	Paddy, Lathyrus, Chickpea, Wheat		
3	Mungeli	Mungeli	Tingipur	Paddy, Lathyrus, Chickpea, Wheat		
4	Mungeli	Mungeli	Palansari	Paddy, Lathyrus, Chickpea, Wheat		
5	Pathariya	Pathariya	Mohbhatta	Paddy, Lathyrus, Chickpea, Wheat, Mustard		

Priority / Thrust areas

S. No.	Particulars
1.	
2.	

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
17	85	06	30

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
60	2400	120	5000

Seed Production (Qtl.)	Planting material (Nos.)
150	50000

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Natural Farming	Paddy	In appropriate use of chemical fertilizers deteriorate the soil quality	Assessment of natural farming on paddy					
2	Natural Farming	Kodo		Assessment of natural farming on minor millets (Kodo)					
3	Natural Farming	Chickpea		Assessment of natural farming on Chickpea					
4	Natural Farming	Wheat		Assessment of natural farming on Wheat					
5	Improved planting materials for horticultural crops.	Brinjal	Low yield of local variety Kabri bhata.	Assessment of improved variety of Brinjal					
6	Improved planting materials for horticultural crops.	Coriander	Low yield of existing variety of coriander	Refinement of integrated nutrient management in improved variety of Coriander					
7	Improved planting materials for horticultural crops.	Indian Bean	Low yield of existing variety of Indian bean	Assessment of high yielding variety of Indian Bean					
8	Integrated Disease Management	Paddy	Blast and sheath blight infection in rice	Assessment of IDM modules for Blast disease of paddy	Management of Sheath blight & stem borer by mixed formulation of Fungicide & insecticide				
9	Integrated Disease Management	Paddy	Problem of False Smut	Refinement of IDM modules for False Smut disease in Paddy					

	ment		disease in Paddy						
10	Integrate d Pest Manage ment	Brinjal	Problem of fruit and shoot borer in brinjal	Assessment of IPM module against fruit and shoot borer in brinjal					
11	Fish Seed productio n	Fisherie s	Unavaila bility of quality seed	Assessment of fish Seed Production (Fry to fingerlings) in small seasonal village ponds.					
12	Integrated farming system	IFS	No integrate d faming system practiced	Assessment of Fish cum duck farming system					
13	Fish Seed productio n	Fisherie s	Low survival at nursery stage	Assessment of spawn to fry production through use of vermicompost in small seasonal village ponds.					
14	Composit e fish farming	Fisherie s	Low productio n due to improper manage ment	Assessment of Fish Farming through Community Participation					
15	Farm mechaniz ation	Chickpe a	Producti vity is less due to imprope r plant geometr y	Assessment of seed cum fertilizer drill in chickpea for line sowing					
16	Farm mechaniz ation	Wheat	Producti vity is less due to imprope r plant geometr y	Assessment of seed cum fertilizer drill in wheat for line sowing					
17	Impact assessme nt	Extensi on	Lack of awarene ss	Impact assessment of CFLD among the beneficiaries of Pulses.					

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Improved seeds for agricultural crops	-	-	-	-	03	-	-	-	-	03
Integrated Disease Management	01	-	-	-	01	-	-	-	-	02
Integrated Pest Management	01	-	-	-	-	-	-	-	-	01
Natural Farming	03	-	01	-	-	-	-	-	-	04
Improved method for sowing.	01	-	01	-	-	-	-	-	-	02
TOTAL	06		02		04					12

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Quality seed production of fish and improved management practice/ IFS	-	-	-	-	-	-	04	04
TOTAL							04	04

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of natural farming on paddy.	
Problem diagnosed	Excessive use of chemical fertilizers by farmers make the health of soil very poor and it adversely affect the human health also.	
Farmers' Practices	Improper use of chemical fertilizers and indiscriminate use of chemical pesticides	
Details of technologies selected for assessment	T ₁	Beejamrit@20 l/100 kg seed, Jeevamrit @12.5 l +500 l water/ ha(1st application) after this in every 21 days apply jeevamrit @25 l /12.5l /50l /12.5l respectively, Green manuring @40kg/ha and Neemhastra @500 t/ha, Brahmhastra @15-20 l+500 l water/ha, Khatti Chach @15-20l +500l water/ha.
	T ₂	
Source of technology	RVSKVV, Gwalior	
Plot size	01 Acre	
No. of farmers	04	
Total cost	5000	
Critical input	Paddy Seed, Beejamrit, Jeevamrit, Seed of green manure, Neemhastra, Bramhastra	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Soil test report before and after cultivation, Plant Population/m ² Yield (q/ha); Net return (Rs./ha.); B:C ratio	

OFT-2

Crop / Enterprise	Kodo	
Title of on farm trial	Assessment of natural farming on minor millets (Kodo).	
Problem diagnosed	Use of chemical fertilizers and pesticide in kodo millets can reduce the quality and market value.	
Farmers' Practices	Improper use of chemical fertilizers and indiscriminate use of chemical pesticides	
Details of technologies selected for assessment	T ₁	Beejamrit@20 l/100 kg seed, Jeevamrit @12.5 l +500 l water/ ha(1st application) after this in every 21 days apply jeevamrit @25 l /12.5l /50l /12.5l respectively, Green manuring @40kg/ha and Neemhastra @500 t/ha, Brahmmastra @15-20 l+500 l water/ha, Khatti Chach @15-20l +500l water/ha.
	T ₂	
Source of technology	RVSKVV, Gwalior	
Plot size	01 Acre	
No. of farmers	04	
Total cost	5000	
Critical input	Kodo Seed, Beejamrit, Jeevamrit, Ghanjeevamrit, Neemhastra, Bramhastra	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Soil test report before and after cultivation, Plant Population/m ² Yield (q/ha); Net return (Rs./ha.); B:C ratio	

OFT-3

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of natural farming on Chickpea	
Problem diagnosed	Excessive use of chemical fertilizers by farmers make the health of soil very poor, it adversely affect the human health also and stagnation also occurs in productivity.	
Farmers' Practices	Improper use of chemical fertilizers and indiscriminate use of chemical pesticides	
Details of technologies selected for assessment	T ₁	Beejamrit@20 l/100 kg seed, Jeevamrit @12.5 l +500 l water/ ha(1st application) after this in every 21 days apply jeevamrit @25 l /12.5l /50l /12.5l respectively, Green manuring @40kg/ha and Neemhastra @500 t/ha, Brahmmastra @15-20 l+500 l water/ha, Khatti Chach @15-20l +500l water/ha.
	T ₂	
Source of technology	RVSKVV, Gwalior	
Plot size	01 Acre	
No. of farmers	04	
Total cost	5000	
Critical input	Chickpea Seed, Beejamrit, Jeevamrit, Ghanjeevamrit, Neemhastra, Bramhastra	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Soil test report before and after cultivation, Plant Population/m ² Yield (q/ha); Net return (Rs./ha.); B:C ratio	

OFT-4

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of natural farming on Wheat	
Problem diagnosed	Excessive use of chemical fertilizers by farmers make the health of soil very poor, it adversely affect the human health also and stagnation also occurs in productivity.	
Farmers' Practices	Improper use of chemical fertilizers and indiscriminate use of chemical pesticides	
Details of technologies selected for assessment	T ₁	Beejamrit@20 l/100 kg seed, Jeevamrit @12.5 l +500 l water/ ha(1st application) after this in every 21 days apply jeevamrit @25 l /12.5l /50l /12.5l respectively, Green manuring @40kg/ha and Neemhastra @500 t/ha, Brahmmastra @15-20 l+500 l water/ha, Khatti Chach @15-20l +500l water/ha.
	T ₂	
Source of technology	RVSKVV, Gwalior	
Plot size	01 Acre	
No. of farmers	04	
Total cost	5000	
Critical input	Wheat Seed, Beejamrit, Jeevamrit, Seed of green manure, Neemhastra, Bramhastra	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Soil test report before and after cultivation, Plant Population/m ² Yield (q/ha); Net return (Rs./ha.); B:C ratio	

OFT-5

Crop / Enterprise	Turmeric	
Title of on farm trial	Refinement of integrated nutrient management in improved variety of turmeric	
Problem diagnosed	Low yield of existing varieties and improper use of fertilizer	
Farmers' Practices	Use of local variety Semal	
Details of technologies selected for assessment	T ₁	Chhattisgarh Haldi -1
	T ₂	Narendra
Source of technology	IGKV, Raipur	
Plot size	01 Acre	
No. of farmers	04	
Total cost	5000	
Critical input	Seed and fertilizer	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of rhizome /plant, weight of rhizome/plant Yield (q/ha); Net return (Rs./ha.) & B:C ratio.	

OFT-06

Crop / Enterprise	Brinjal	
Title of on farm trial	Assessment of improved variety of Brinjal	
Problem diagnosed	Low yield of existing varieties.	
Farmers' Practices	Use of local variety Kabari	
Details of technologies selected for assessment	T ₁	Chhattisgarh safed baigan
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	01 Acre	
No. of farmers	04	
Total cost	1000	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of fruit/plant, fruit weight /plant Net return (Rs./ha.) & B:C ratio.	

OFT-07

Crop / Enterprise	Coriander	
Title of on farm trial	Refinement of integrated nutrient management in improved variety of Coriander	
Problem diagnosed	Low yield of existing varieties and improper use of fertilizer	
Farmers' Practices	Use of local variety semal	
Details of technologies selected for assessment	T ₁	Chhattisgarh Dhaniya -1
	T ₂	Pant Haritima
Source of technology	IGKV, Raipur	
Plot size	01 Acre	
No. of farmers	04	
Total cost	5000	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plant height, Number of branches/plant Net return (Rs./ha.) & B:C ratio.	

OFT-08

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of IDM modules for Blast disease of paddy	
Problem diagnosed	Loss of crop due to blast disease	
Farmers' Practices	Use of not recommended fungicide for the control of disease	
Details of technologies selected for assessment	T ₁	1. Seed Treatment with Tricyclazole @ 2 g/kg. 2. FYM should uniformly spread during field preparation 3. Avoid the FYM Heaps in the field . 4. One foliar application of Tricyclazole 0.1% at tillering stage 5. Last foliar application of Tricyclazole (0.1%) just after emergence of panicles
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	01 Acre	
No. of farmers	04	
Total cost	5000	
Critical input	Fungicide	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Disease incidence %; No. of plants infested/m ² of tillers/plant Yield (q/ha); Net return (Rs./ha.); B:C ratio	

OFT-09

Crop / Enterprise	Brinjal	
Title of on farm trial	Assessment of IPM module against fruit and shoot borer in brinjal	
Problem diagnosed	Heavy loss of crop due to fruit and shoot borer in brinjal	
Farmers' Practices	Use of insecticides at improper time	
Details of technologies selected for assessment	T ₁	1. Use of Marigold as a trap crop (7:1) / Boder crop 2. Spray spinosad 45 %SC 175 ml/ha at 15 days interval 2 times
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	01 Acre	
No. of farmers	04	
Total cost	5000	
Critical input	Fungicides, marigold seeds	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of Infested plants/m ² , No. of damage Fruit/Shoot /Plant Yield (q/ha); Net return (Rs./ha.); B:C ratio	

OFT-10

Crop / Enterprise	Paddy	
Title of on farm trial	Refinement of IDM modules for False Smut disease in Paddy	
Problem diagnosed	Improper, untimely and defective method of Fungicides application	
Farmers' Practices	Improper use of fungicides	
Details of technologies selected for assessment	T ₁	1. Seed Treatment with Mancozeb 63% + Carbendazim 12% @ 2.5g/kg of Seed. 2. FYM should uniformly spread during field preparation 3. Avoid the FYM Heaps in the field . 4. Spray with Propiconazole 25 EC @ 0.1% at boot stage
	T ₂	
Source of technology	PAU, 2006	
Plot size	01 Acre	
No. of farmers	04	
Total cost	5000	
Critical input	Fungicide	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Disease incidence %, No. of infested Panicle/m ² no. of tillers/plant Yield (q/ha); Net return (Rs./ha.); B:C ratio	

OFT-11

Crop / Enterprise	Fisheries	
Title of on farm trial	Assessment of spawn to fry production through use of vermicompost in small seasonal village ponds.	
Problem diagnosed	Improper use of manures, infestation of aquatic insect, low survival	
Farmers' Practices	Use of manures (cow dung) @ 10 tonne/ha	
Details of technologies selected for assessment	T ₁	1. Use of Marigold as a trap crop (7:1) / Boder crop 1. Application of lime 200-250kg/ha 2. Application of vermicompost @ 5 tonnes/ha 3. Stocking of Fish spawn (Catla,Rohu,Mrigal) @ 3 million/ha 4. Feeding with Egg custard + GNOC
	T ₂	
Source of technology	IGKV, Raipur (2006)	
Plot size	0.01 ha	
No. of farmers	04	
Total cost	5000	
Critical input	Spawn, vermicompost	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plankton population, growth (g), Survival percentage B:C ratio	

OFT-12

Crop / Enterprise	Fisheries	
Title of on farm trial	Assessment of fish Seed Production (Fry to fingerlings) in small seasonal village ponds.	
Problem diagnosed	Improper use of manures, No feeding	
Farmers' Practices	Use of manures (cow dung) @ 10 tonne/ha	
Details of technologies selected for assessment	T ₁	1. Application of lime 200-250kg/ha 2. Application of Cowdung @ 5 tonnes/ha+Urea @ 200 kg/ha + SSP @ 300 kg/ha 3. Stocking of Fish fry (Catla,Rohu,Mrigal) @ 0.1-0.3 million/ha 4. Feeding of Oil Cake+Rice bran (1:1) by 3-5 % of body weight.
	T ₂	
Source of technology	ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar-2011	
Plot size	0.02 ha	
No. of farmers	04	
Total cost	5000	
Critical input	Fry, Fish feed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plankton population, growth (g), Survival percentage B:C ratio	

OFT-13

Crop / Enterprise	Fisheries	
Title of on farm trial	Assessment of Fish cum duck farming system	
Problem diagnosed	Integrated farming system not in practice	
Farmers' Practices	Stocking of fry or fingerling	
Details of technologies selected for assessment	T ₁	1. Stocking of 8,000 fingerling/ha (at least 10-15 g) 2. Khakhi Campbell / Indian runner duck breed used for fish cum duck culture @200 - 250 ducks /ha
	T ₂	
Source of technology	ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar-2011	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	5000	
Critical input	Fingerlings, Duck	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Growth (g); Yield of fish & duck (Egg & meat) B:C ratio	

OFT-14

Crop / Enterprise	Fisheries	
Title of on farm trial	Assessment of Fish Farming through Community Participation.	
Problem diagnosed	Improper use of community ponds for fish production	
Farmers' Practices	Stocking of fry or fingerling	
Details of technologies selected for assessment	T ₁	1. Stocking of 8,000 fingerling/ha (at least 10-15 g) 2. Application of lime 200-250kg/ha 3. Feeding of Oil Cake+Rice bran (1:1) by 3-5 % of body weight.
	T ₂	
Source of technology	ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar-2011	
Plot size	0.02 ha	
No. of farmers	04	
Total cost	5000	
Critical input	Fingerlings, fish feed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Growth (g); Yield of fish (q/ha) B:C ratio	

OFT-15

Crop / Enterprise	Chickpea	
Title of on-farm trial:	Assessment of seed cum fertilizer drill in chickpea for line sowing	
Problem diagnosis:	Productivity is less due to improper plant geometry	
Farmers' Practices	Broadcasting/ not practiced	
Details of technologies selected for assessment	T1	Sowing with seed cum fertilizer drill
	T2	-
Source of technology:	IGKV, Raipur	
Plot size	1 ha	
No. of farmers	05	
Total cost	5000	
Critical input	Seed	
Performance indicators: i. Technical- yield (q/ ha) ii. Economic iii. Social – Employment generation	Plant Population/m ² Yield (q/ha); Net return (Rs./ha.); B:C ratio	

OFT-16

Crop / Enterprise	Wheat	
Title of on-farm trial:	Assessment of seed cum fertilizer drill in wheat for line sowing	
Problem diagnosis:	Productivity is less due to improper plant geometry	
Farmers' Practices	Broadcasting/ not practiced	
Details of technologies selected for assessment	T1	Sowing with seed cum fertilizer drill
	T2	-
Source of technology:	IGKV, Raipur	
Plot size	1 ha	
No. of farmers	05	
Total cost	5000	
Critical input	Seed	
Performance indicators: i. Technical- yield (q/ ha) ii. Economic iii. Social – Employment generation	Plant Population/m ² Yield (q/ha); Net return (Rs./ha.); B:C ratio	

OFT-17

Crop / Enterprise	Crop	
Title of on farm trial	Impact assessment of CFLD among the beneficiaries of Pulses.	
Problem diagnosed	Lack of knowledge about specific plant protection measures & use of local/uncertified seed of Pulses.	
Farmers' Practices	Use of local/uncertified seed & poor plant protection schedule	
Details of technologies selected for assessment	T ₁	Beneficiaries
	T ₂	Non- beneficiaries
Source of technology	Krishi Vigyan Kendra, Masodha, ANDUA&T, Ayodhya, KVK, Sohaon, Ballia, India	
Plot size	NA	
No. of farmers	40 Respondents	
Total cost	-	
Critical input	-	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	1. Impact assessment 2. Level of knowledge 3. Level of adoption 4. Farmer's perception 5. % change in yield 6. The problem faced by respondent in the use of plant protection schedule and certified seed of Pulses.	

Detailed Information about OFT:**OFT-1**

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of natural farming on paddy
Year/Season:	Kharif-2023
Farming situation:	Rainfed
Problem diagnosis:	Excessive use of chemical fertilizers by farmers make the health of soil very poor and it adversely affect the human health also
Thematic area:	Natural Farming
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Improper use of chemical fertilizers and indiscriminate use of chemical pesticides
T2 –Recommended Practice-	Beejamrit@20 l/100 kg seed, Jeevamrit @12.5 l +500 l water/ ha(1st application) after this in every 21 days apply jeevamrit @25 l /12.5l /50l /12.5l respectively, Green manuring @40kg/ha and Neemhastra @500 t/ha, Brahmhastra @15-20 l+500 l water/ha, Khatti Chach @15-20l +500l water/ha.
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior
Characteristics of technology:	
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-2

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of natural farming on minor millets (Kodo).
Year/Season:	Kharif-2023
Farming situation:	Rainfed
Problem diagnosis:	Use of chemical fertilizers and pesticide in kodo millets can reduce the quality and market value
Thematic area:	Natural Farming
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of chemical fertilizers and indiscriminate use of chemical pesticides
T2 –Recommended Practice-	Beejamrit@20 l/100 kg seed, Jeevamrit @12.5 l +500 l water/ ha(1st application) after this in every 21 days apply jeevamrit @25 l /12.5l /50l /12.5l respectively, Green manuring @40kg/ha and Neemhastra @500 t/ha, Brahmhastra @15-20 l+500 l water/ha, Khatti Chach @15-20l +500l water/ha.
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior
Characteristics of technology:	
Name of Crop/Enterprises:	Kodo
Recommendations for Farmers	

OFT-3

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of natural farming on Chickpea
Year/Season:	Kharif-2023
Farming situation:	Rainfed
Problem diagnosis:	Excessive use of chemical fertilizers by farmers make the health of soil very poor and it adversely affect the human health also
Thematic area:	Natural Farming
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Improper use of chemical fertilizers and indiscriminate use of chemical pesticides
T2 –Recommended Practice-	Beejamrit@20 l/100 kg seed, Jeevamrit @12.5 l +500 l water/ ha(1st application) after this in every 21 days apply jeevamrit @25 l /12.5l /50l /12.5l respectively, Green manuring @40kg/ha and Neemhastra @500 t/ha, Brahmhastra @15-20 l+500 l water/ha, Khatti Chach @15-20l +500l water/ha.
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-4

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of natural farming on Wheat.
Year/Season:	Kharif-2023
Farming situation:	Rainfed
Problem diagnosis:	Excessive use of chemical fertilizers by farmers make the health of soil very poor and it adversely affect the human health also
Thematic area:	Natural Farming
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of chemical fertilizers and indiscriminate use of chemical pesticides
T2 –Recommended Practice-	Beejamrit@20 l/100 kg seed, Jeevamrit @12.5 l +500 l water/ ha(1st application) after this in every 21 days apply jeevamrit @25 l /12.5l /50l /12.5l respectively, Green manuring @40kg/ha and Neemhastra @500 t/ha, Brahmhastra @15-20 l+500 l water/ha, Khatti Chach @15-20l +500l water/ha.
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	

OFT-5

Name of Discipline	Horticulture
Title of on-farm trial:	Refinement of integrated nutrient management in improved variety of turmeric
Year/Season:	Kharif-2023
Farming situation:	Midland
Problem diagnosis:	Low yield of existing varieties and improper use of fertilizer
Thematic area:	INM
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Refinement
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of local variety Semal
T2 –Recommended Practice-	Chhattisgarh Haldi -1
T3- Recommended Practice-	Narendra
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Turmeric
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-06

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of improved variety of Brinjal
Year/Season:	Rabi-2023
Farming situation:	Midland
Problem diagnosis:	Low yield of existing varieties and improper use of fertilizer
Thematic area:	INM
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of local variety Kabari
T2 –Recommended Practice-	Chhattisgarh safed baigan
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-07

Name of Discipline	Horticulture
Title of on-farm trial:	Refinement of integrated nutrient management in improved variety of Coriander
Year/Season:	Rabi-2023
Farming situation:	Midland
Problem diagnosis:	Low yield of existing varieties and improper use of fertilizer
Thematic area:	INM
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Refinement
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of local variety Semal
T2 –Recommended Practice-	Chhattisgarh Dhaniya -1
T3- Recommended Practice-	Pant Haritima
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Coriander
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-08

Name of Discipline	Plant Pathology
Title of on-farm trial:	Assessment of IDM modules for Blast disease of paddy
Year/Season:	Kharif-2023
Farming situation:	Low land
Problem diagnosis:	Loss of crop due to blast disease
Thematic area:	Disease management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of not recommended fungicide for the control of disease
T2 –Recommended Practice-	1. Seed Treatment with Tricyclazole @ 2 g/kg. 2. FYM should uniformly spread during field preparation 3. Avoid the FYM Heaps in the field . 4. One foliar application of Tricyclazole 0.1% at tillering stage 5. Last foliar application of Tricyclazole (0.1%) just after emergence of panicles
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-09

Name of Discipline	Plant Pathology
Title of on-farm trial:	Assessment of IPM module against fruit and shoot borer in brinjal
Year/Season:	Rabi-2023
Farming situation:	Midland/Upland
Problem diagnosis:	Heavy loss of crop due to fruit and shoot borer in brinjal
Thematic area:	Disease management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of insecticides at improper time
T2 –Recommended Practice-	1. Use of Marigold as a trap crop (7:1) / Boder crop 2. Spray spinosad 45 %SC 175 ml/ha at 15 days interval 2 times
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-10

Name of Discipline	Plant Pathology
Title of on-farm trial:	Refinement of IDM modules for False Smut disease in Paddy
Year/Season:	Kharif-2023
Farming situation:	Lowland
Problem diagnosis:	Improper, untimely and defective method of Fungicides application
Thematic area:	Disease management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Refinement
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Improper use of fungicides
T2 –Recommended Practice-	1.Seed Treatment with Mancozeb 63% + Carbendazim 12% @ 2.5g/kg of seed. 2.FYM should uniformly spread during field preparation 3.Avoid the FYM Heaps in the field. 4.Spray with Propiconazole 25 EC @ 0.1% at boot stage
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	PAU, 2006
Characteristics of technology:	
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-11

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of spawn to fry production through use of vermicompost in small seasonal village ponds
Year/Season:	Kharif-2023
Farming situation:	Rainfed
Problem diagnosis:	Improper use of manures, infestation of aquatic insect, low survival
Thematic area:	Fish Seed production
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of manures (cow dung) @ 10 tonne/ha
T2 –Recommended Practice-	1. Application of lime 200-250kg/ha 2. Application of vermicompost @ 5 tonnes/ha 3. Stocking of Fish spawn (Catla,Rohu,Mrigal) @ 3 million/ha 4. Feeding with Egg custard + GNOC
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur (2006)
Characteristics of technology:	
Name of Crop/Enterprises:	Fisheries
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-12

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of fish Seed Production (Fry to fingerlings) in small seasonal village ponds
Year/Season:	Kharif-2023
Farming situation:	Rainfed
Problem diagnosis:	Improper use of manures, low survival
Thematic area:	Fish Seed production
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of manures (cow dung) @ 10 tonne/ha
T2 –Recommended Practice-	1.Application of lime 200-250kg/ha 2.Application of Cowdung @ 5 tonnes/ha+Urea @ 200 kg/ha + SSP @300 kg/ha 3.Stocking of Fish fry (Catla,Rohu,Mrigal) @ 0.1-0.3 million/ha 4.Feeding of Oil Cake+Rice bran (1:1) by 3-5 % of body weight.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar-2011
Characteristics of technology:	
Name of Crop/Enterprises:	Fisheries
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-13

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of Fish cum duck farming system
Year/Season:	Kharif/Rabi-2023
Farming situation:	Rainfed
Problem diagnosis:	Integrated farming system not in practice
Thematic area:	Integrated farming system
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of manures (cow dung) @ 10 tonne/ha
T2 –Recommended Practice-	1. Stocking of 8,000 fingerling/ha (at least 10-15 g) 2. Khakhi Campbell / Indian runner duck breed used for fish cum duck culture @200 - 250 ducks /ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar-2011
Characteristics of technology:	
Name of Crop/Enterprises:	Fisheries
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-14

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of Fish Farming through Community Participation.
Year/Season:	Kharif/Rabi-2023
Farming situation:	Rainfed
Problem diagnosis:	Stocking of fry or fingerling
Thematic area:	Production & Management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Improper use of community ponds for fish production
T2 –Recommended Practice-	1. Stocking of 8,000 fingerling/ha (at least 10-15 g) 2. Application of lime 200-250kg/ha 3. Feeding of Oil Cake+Rice bran (1:1) by 3-5 % of body weight.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar-2011
Characteristics of technology:	
Name of Crop/Enterprises:	Fisheries
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-15

Name of Discipline	Agril Engineering
Title of on-farm trial:	Assessment of seed cum fertilizer drill in chickpea for line sowing
Year/Season:	Rabi 2023
Farming situation:	Under irrigated condition
Problem diagnosis:	Productivity is less due to improper plant geometry
Thematic area:	Farm mechanization
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcasting/ not practiced
T2 –Recommended Practice-	Sowing with seed cum fertilizer drill
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	-

OFT-16

Name of Discipline	Agril Engineering
Title of on-farm trial:	Assessment of seed cum fertilizer drill in wheat for line sowing
Year/Season:	Rabi 2023
Farming situation:	Under irrigated condition
Problem diagnosis:	Low productivity due to improper plant geometry
Thematic area:	Farm mechanization
No of trials:	5
No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcasting/ not practiced
T2 –Recommended Practice-	Sowing with seed cum fertilizer drill
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-17

Name of Discipline	Agriculture Extension
Title of on-farm trial:	Impact assessment of CFLD among the beneficiaries of Pulses.
Year/Season:	Kharif/Rabi-2023
Farming situation:	-
Problem diagnosis:	Lack of knowledge about specific plant protection measures & use of local/uncertified seed of Pulses
Thematic area:	Impact assessment
No of trials:	NA
No. of farmers involved	40
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of local/uncertified seed & poor plant protection schedule.
T2 –Recommended Practice-	1. Impact assessment 2. Level of knowledge 3. Level of adoption 4. Farmer's perception 5. % change in yield 6. The problem faced by respondent in the use of plant protection schedule and certified seed of Pulses.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Chickpea	Integrated Disease Management	Demonstration on <i>Trichoderma viride</i> for control of chickpea collar rot	Trichoderma	Rabi 2023	4	10	Disease incidence, severity, infestation % & Economics
2	Fisheries	Fish Production & Management	1.Stocking of 8,000 fingerling/ha (at least 10-15 g) 2.Application of lime 200-250kg/ha 3.Feeding of Oil Cake+Rice bran (1:1) by 3-5 % of body weight.	Fingerlings, fish feed	Kharif & Rabi 2023	1	4	Growth (weight), yield, B:C ratio
3	Mushroom	Income and income generation	Demonstration of Paddy Straw Mushroom Cultivation	Mushroom Spawn, Bavistin, Formalene	Kharif & Rabi 2023		40	Yield (kg) and B:C Ratio
4	Onion	INM	Demonstration of integrated nutrient management in improved variety of Onion	Seed	Rabi 2023	0.1	04	Plant height, yield (q/ha), Net return and B:C Ratio
5	Lathyrus	Crop production	Improved utera cultivation of lathyrus	Seed and rhizobium, trichoderma culture	Rabi 2023	4	10	Plant Population/m ² , No of ear head/plant, Yield & B:C Ratio
6	Rice	Integrated Nutrient Management	50% RDF(50:30:20, NPK)+Green Manuring 40kg/hac+Use of PSB culture viz. PSB @5-10 gm / kg seed, azospirillum@5-10gm/kg seed, zinc solubilising bacteria as basal dose and soil treatment by azolla @ 10Kg/ ha to increases yield & maintain soil fertility.	Seed and bio fertilizer	Kharif 2023	5	10	Yield (q/ha), Net Return & B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days			
2	Farmers Training			
3	Media coverage			
4	Training for extension functionaries			

Details of FLD on Enterprises
Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check

**Field efficiency, labour saving etc.*

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

**Milk production, meat production, egg production, reduction in disease incidence etc.*

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Groundnut	CFLD	Line sowing seed treatment with Trichoderma	Seed, Tricoderma	Kharif 2023-24	20		
2	Soybean	CFLD	Line sowing seed treatment with Trichoderma	Seed, Tricoderma	Kharif 2023-24	20		
3	Pigeonpea	CFLD	Improved variety, Line sowing seed treatment with Trichoderma	Seed, Sulphur	Kharif 2023-24	20		
4	Moong	CFLD	Line sowing seed treatment with Trichoderma	Seed, Tricoderma	Kharif 2023-24	20		
5	Blackgram	CFLD	Line sowing seed treatment	Seed, Tricoderma	Kharif 2023-24	20		

			with Trichoderma					
6	Mustard	CFLD	Improved variety, Line sowing seed treatment with Trichoderma	Seed, Sulphur	Rabi 2024-25	20		
7	Linseed	CFLD	Line sowing seed treatment with Trichoderma	Seed, Tricoderma	Rabi 2024-25	20		
8	Chickpea	CFLD	Line sowing seed treatment with Trichoderma	Seed, Tricoderma	Rabi 2024-25	50		
9	Lentil	CFLD	Improved variety, Line sowing seed treatment with Trichoderma	Seed, Sulphur	Rabi 2024-25	20		
10	Lathyrus	CFLD	Improved variety, Line sowing seed treatment with Trichoderma	Seed, Sulphur	Rabi 2024-25	20		

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10		
2	Farmers Training	20		
3	Media coverage	05		
4	Training for extension functionaries	05		

A) ON Campus

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
quality animal products									
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening									
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Value addition									
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies									
Women and child care									
Total									
VI Agril. Engineering	6	1							
Total									
VII Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
Total									
VIII Fisheries									
Integrated fish farming	2	1							
Pond Management	7	1							
Fish Seed production	3	1							
Total	12	1							

[illegible]

[illegible]

B) OFF Campus

[illegible]

1. On Campus

Month/	

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
OILSEEDS			
PULSES			
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
3				
BIO PESTICIDES				

1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1			
2			
3			
4			
5			
6			
7			
8			

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK
(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production

KVK Narayanpur

Year of sanction: 2012

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. D. Das		9877496009	Kvk.narayanpur@igkv.ac.in

1.2 Staff Position on (31th Dec.2023)

[illegible]

1.3 Total land with KVK (in ha): 18.68 ha

S. No.	Item	Area (ha)
1	Under Buildings	2.00
2	Under Demonstration Units	4.68
3	Under Crops	11.00
4	Orchard/Agro-forestry	-
5	Others (specify)	1.00
Total		18.68

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR						
2	Farmers Hostel	Jila Panchayat						
3	Staff Quarters (6)	Nil						
4	Demonstration Units (2)	Collector						
5	Fencing	-						
6	Rain Water harvesting system	Nil						
7	Threshing floor	Nil						
8	Farm godown	RKVY						

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Motor Cycle 2	2014			
Bolero(Jeep)	2012		284000	Not working
Other (Pl. specify)	-			

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2012-13		working
Projector	2016-17		Working
Computer			

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	
2	

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	
2	AES – 2	
3	AES – 3	
4		
5		
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	
2	AES - 2	
3	AES – 3	
4	AES – 4	
5	AES – 5	
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	691.316
Forest	
Waste Land	
Other than cultivated area	
Cultivable waste and alkaline land	
Pastures	
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	
Area Sown	65.140
Kharif	57.370
Rabi	7.7770
Zaid	
Cropping Intensity	113.49

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	12.00
2	Well	4.00
3	Tube well	150.00
4	Ponds	2.00
5	Others	168.00

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Inceptisols		172311.3112 (42%)
2	Entisols		109682.9533 (27%)
3	Vertisols		87985.78132 (22%)
4	Alfisols		35651.55377 (9%)

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
1	Rice	32600		
2	Maize	11700		
3	Black gram	5600		
4	Mustard	3500		
5	Nizer	3150		

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	7.9	28.7	13.9
Feb. 2023	6.0	31.9	16.9
Mar. 2023	12.3	35.8	20.7
Apr. 2023	25.3	39	24.5
May. 2023	29.1	40.5	26.7
Jun. 2023	206.6	35.5	25.3
July. 2023	385.4	30.4	23.4
Aug. 2023	409.1	29.7	23.1
Sept. 2023	227.1	30.9	23.1
Oct. 2023	80.9	31.4	21.1
Nov. 2023	9.0	29.7	16.8
Dec. 2023	5.2	28.2	13.6

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	44551	 MT.	 kg
Buffalo	13031	 MT.	 Kg
Sheep			
Crossbred/ Indigenous	101	 MT wool	 Kg
Goats	12994	 MT	 Kg
Pigs Crossbred/ Indigenous	10272	---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	q/ month	 q/ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Narayanpur	Narayanpur	Devgaon	Rice	Less area in rabi season due to lack of irrigation and fencing	Increase in cropping intensity
2	Narayanpur	Narayanpur	Timnar	Rice	Major area occupying by monocropping	Crop diversification
3						
4						
5						

Priority / Thrust areas

S. No.	Particulars
1.	Increase in cropping intensity
2.	Crop diversification
3.	Varietal replacement
4.	Natural farming
5.	IFS
6.	Women empowerment

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
6	30	6	35

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
24	720	268	10490

Seed Production (Qtl.)	Planting material (Nos.)
300	5000

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Increase in cropping intensity	Chick pea	Heavy mortality occurs due to excess moisture content because of unseasonal rainfall	Assessment of chick pea sowing by multi crop ridge planter				2	Seed
2	Varietal replacement	Kutki	Low yield due to use of traditional varieties	Assessment of improved variety of Kutki				2	Seed
3	Natural farming	Rice	High cost under conventional (chemical) farming	Assessment of Paddy cultivation under natural farming				2	Inputs required for preparing components of natural farming
4	Nutri-Sensitive Agriculture	Mushroom			Demonstration on low cost oyster mushroom cultivation for income generation and reduce the malnutrition			2	

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
TOTAL										

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of Paddy crop performance under natural farming	
Problem diagnosed	High cost under conventional (chemical) farming	
Farmers' Practices	Conventional (chemical) farming	
Details of technologies selected for assessment	T ₁	Conventional (chemical) farming
	T ₂	Seed treatment with Beejamrit, Ghanjeevamrit at sowing time (250kg/ha). Spraying of jeevamrit @ 15, 30, 45, 60 DAS, Mulches of crop residues & Bio pesticides
Source of technology	Gurukul Institute, Kurukshetra, Haryana	
Plot size	0.5 acre	
No. of farmers	5	
Total cost	15000.00	
Critical input	Inputs required for preparing components of natural farming	
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	Yield (q/ha)	

OFT-2

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of Stem borer Management in Paddy	
Problem diagnosed	Yield loss due to outbreak of Stem borer	
Farmers' Practices	No use of proper effective insecticides	
Details of technologies selected for assessment	T ₁	
	T ₂	Use of Flubendiamide 39.35% SC @ 0.5ml/lit. spray and Technical Guidance
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	6000.00	
Critical input	Insecticides (Flubendiamide)	
Performance indicators: (v) Growth and Yield attributes (vi) Technical- yield (q/ ha) (vii) Economic	No. of affected tiller with dead heart/ m ² , yield (q/ha) and B:C ratio	

(viii) Social – Employment generation	

OFT-3

Crop / Enterprise	Bitter Gourd	
Title of on farm trial	Assessment of Foliar application of Ethrel PGR in Bitter Gourd	
Problem diagnosed	Low yield due to no use of PGRs	
Farmers' Practices	No use of PGRs	
Details of technologies selected for assessment	T ₁	No use of PGRs
	T ₂	Foliar application of Ethrel PGR @ 250 ppm at 2 & 4 leaves stages in bitter gourd
Source of technology	IGKV, Raipur	
Plot size	0.5 acre	
No. of farmers	5	
Total cost	10000.00	
Critical input	Ethrel PGR	
Performance indicators: (ix) Growth and Yield attributes (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	No of fruits/ plant, Yield (q/ha), B:C Ratio	

OFT-4

Crop / Enterprise	Finger millets	
Title of on farm trial	Assessment of finger millet crop performance under natural farming	
Problem diagnosed	Low yield (3-4 q/ha) due to no use of fertilizer	
Farmers' Practices	Finger millet cultivation without fertilizer	
Details of technologies selected for assessment	T ₁	Finger millet cultivation without fertilizer
	T ₂	Seed treatment with Beejamrit, Ghanjeevamrit at sowing time (250kg/ha). Spraying of jeevamrit @ 20, 40, 60 DAS, Mulches of crop residues & Bio pesticides
Source of technology	Gurukul Institute, Kurukshetra, Haryana	
Plot size	0.5 acre	
No. of farmers	5	
Total cost	15000.00	
Critical input	Inputs required for preparing components of natural farming	
Performance indicators: (xiii) Growth and Yield attributes (xiv) Technical- yield (q/ ha) (xv) Economic (xvi) Social – Employment generation	No. of effective tillers per plant, Yield (q/ha), B:C Ratio	

OFT-5

Crop / Enterprise	Okra	
Title of on farm trial	Assessment of improved variety of Okra	
Problem diagnosed	Yield loss due to Yellow vein mosaic virus infestation	
Farmers' Practices	Use of private company variety (Namdhari seed)	
Details of technologies selected for assessment	T ₁	Use of private company variety (Namdhari seed)
	T ₂	Okra var. Kashi Pragati (YVM registrant variety)
Source of technology	IIVR, Banaras	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	10000.00	
Critical input	Improved variety seed (Kashi Pragati)	
Performance indicators: (xvii) Growth and Yield attributes (xviii) Technical- yield (q/ ha) (xix) Economic (xx) Social – Employment generation	No. of fruits/plant, Fruit yield (q/ha), B:C ratio	

OFT-6

Crop / Enterprise	Tomato	
Title of on farm trial	Assessment of Fruit borer Management in Tomato	
Problem diagnosed	Low yield due to infestation of fruit borer	
Farmers' Practices	No use proper effective insecticides	
Details of technologies selected for assessment	T ₁	Use of Chlorantraniliprole 18.20 % SC @ 0.6ml/lit and Technical Guidance
	T ₂	
Source of technology	IGKV, Raipur (C.G.)	
Plot size	0.2 ha	
No. of farmers	5	
Total cost	5000.00	
Critical input	Insecticides (Chlorantraniliprole)	
Performance indicators: (xxi) Growth and Yield attributes (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	No. of affected fruit/m ² , Yield (q/ha) and B:C ratio	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	
Year/Season:	
Farming situation:	
Problem diagnosis:	
Thematic area:	
No of trials:	
No. of farmers involved	
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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 Dept. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Cowpea	Varietal evaluation	Improved variety of Cowpea var. Kashi Kanchan	Seed	Kharif-2024	0.4 hectare	5	Pod yield (q/ha), B:C ratio
2	Oyster Mushroom	Nutri-Sensitive Agriculture	Demonstration on low cost Oyster mushroom cultivation for income generation and reduce the malnutrition	Spawn, chemicals and Poly bag	Rabi 2024	10 Nos.	10 Nos.	Yield (kg /bag), B:C ratio
3	Finger millet	Varietal evaluation	Demonstration on improved variety of Finger millet	Improved variety <i>i.e</i> ; Chhattisgarh ragi 3	Kharif 2024	2 hectare	5	Plant height (cm) , Yield (q/ha) & B:C Ratio
4	Maize	Pest Management	Demonstration on Management of Stem borer in Maize	Insecticides	Rabi 2024	2 hectare	10	No. of affected plant/ m ² , Yield & B:C Ratio
5.	Mahua	NTFP	Collection of <i>Mahua</i> flowers using green shade net to prevent from soiling and saving of labour	Green shade net	Rabi-2024	10 nos.	10	Quality product and saving of labour cost
6.	Tomato	Varietal replacement	Triple disease resistance tomato variety <i>i.e</i> ; Arka Rakshak (resistant to ToLCV+BW+EB	Seed	Rabi-2024	2 hectare	10	No. of plant survived , yield(ton / ha); B:C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	7	February,October	200
2	Farmers Training	20	Around the year	600
3	Media coverage	20	Around the year	
4	Training for extension functionaries	5	Around the year	96

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Niger	Crop production	Improved variety,seed treatment,line sowing	Seed	Kharif 2024	10	25	Yield (kg /ha), B:C ratio
2	Black gram	Crop production	Improved variety,seed treatment,line sowing	Seed	Kharif 2024	10	25	Yield (kg /ha), B:C ratio
3.	Chick pea	Crop Production	Improved variety,seed treatment,line sowing	Seed	Rabi 2024-25	10	25	Yield (kg /ha), B:C ratio
4.	Field pea	Crop Production	Improved variety,seed treatment,line sowing	Seed	Rabi 2024-25	10	25	Yield (kg /ha), B:C ratio
5.	Linseed	Crop Production	Improved variety,seed treatment,line sowing	Seed	Rabi 2024-25	10	25	Yield (kg /ha), B:C ratio

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	October and February	250
2	Farmers Training	10	Around the year	250
3	Media coverage	5	Around the year	
4	Training for extension functionaries	5	Around the year	60

Training (Including the sponsored and FLD training programmes):
A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	5	1 Day							
Resource Conservation Technologies	2	1 Day							
Integrated Farming	10	1 Day							
Water management	5	1 Day							
Seed production	5	1 Day							
Integrated Crop Management	5	1 Day							
Total	32								
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	3	1 Day							
Protective cultivation (Green Houses, Shade Net etc.)	2	1 Day							
Total	5	1 Day							
b) Fruits									
Management of young plants/orchards	5	1 Day							
Total	5								
c) Ornamental Plants	-								
Total	-								
d) Plantation crops	-								
Total	-								
e) Tuber crops	5	1 Day							
Total	5	1 Day							
f) Spices									
Production and Management technology	3	1 Day							
Total	3								
g) Medicinal and Aromatic Plants		1 Day							
Production and	2	1 Day							

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
management technology									
Total	2								
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management	5	1 Day							
Soil and Water Conservation	5	1 Day							
Integrated Nutrient Management	5	1 Day							
Production and use of organic inputs	5	1 Day							
Management of Problematic soils	5	1 Day							
Micro nutrient deficiency in crops	5	1 Day							
Nutrient Use Efficiency	5	1 Day							
Soil and Water Testing	5	1 Day							
Total	40								
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Disease Management									
Feed management									
Production of quality animal products									
Total									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	5	1 Day							
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Value addition									
Income generation	5	4 Day							

[illegible]

[illegible]

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	10	1 Day							
Resource Conservation Technologies	5	1 Day							
Cropping Systems	10	1 Day							
Crop Diversification	10	1 Day							
Integrated Farming	10	1 Day							
Water management	5	1 Day							
Seed production	10	1 Day							
Nursery management	5	1 Day							
Integrated Crop Management	5	1 Day							
Fodder production	10	1 Day							
Production of organic inputs	10	1 Day							
Total	90								
II Horticulture									
a) Vegetable Crops									
Nursery raising	5	1 Day							
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)	5	1 Day							
b) Fruits									
Cultivation of Fruit									
Management of young plants/orchards									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
d) Plantation crops									
e) Tuber crops	5								
f) Spices	2								
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management	5	1 Day							
Soil and Water Conservation	5	1 Day							
Integrated Nutrient Management	5	1 Day							
Production and use of organic inputs	5	1 Day							
Management of Problematic soils	5	1 Day							
Micro nutrient	5	1 Day							

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June		Natural farming of paddy								
November		Natural farming of chickpea								
June		Production of hybrid napier grass for green fodder								
May		Integrated weed management in black gram								
July		Chemical weed management of paddy								
Horticulture										
Livestock production										
Home Science										
Plant Protection										
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
May		Integrated nutrient management in paddy								
November		Integrated nutrient management in maize								
December		Integrated Nutrient								

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
May		Integrated nutrient management in paddy								
November		Integrated nutrient management in maize								
December		Integrated Nutrient management in Niger								

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	CG dhan 1919, Devbhog	300
OILSEEDS	Linseed		
PULSES	Chickpea, Fieldpea		
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya, Mango, Guava, Lemon, Cashewnut, dragonfruit, Pomegranate, Koranda, Drumstick, Jamun, Jackfruit		20000
SPICES			
VEGETABLES	Tomato, brinjal, cabbage , cauliflower and knol-khol)		50000
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)

BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD	Natural farming	
2	CD	Pink oyster mushroom	
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Mushroom production, Vermicomposting
2	Rural Youth	Seed Production , Minor millet processing

3	In-service personnel	Natural farming
4	methodology for identifying OFTs/FLDs	Need base assessment
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Devgaon	Narayanpur	12 Km
2	Timnar	Narayanpur	15 Km

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	-	-	-
2	-	-	-
3	-	-	-
4	-	-	-
5	-	-	-

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	-	-	-	-
Water Samples	-	-	-	-
Total	-	-	-	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
Training, new technology demonstration	Member of ATMA

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK
(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
January	Training	
February	Field day	
June	Seed distribution and training for kharif season	
June and August	Training	
September	Field day	
November	Seed distribution and Training for Rabi season	
November	Training	

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	Dubraj selection -1, CG Barani -2, Badshabhog, Protozinc, Bhata HMT, CG-1919, CG Jawaphool trombey		200
Chickpea	Rabi	CG Chana -02, RVG – 202		50
Fieldpea	Rabi	Indira matar – 01, IPFD 10-12		50
Linseed	Rabi	RLC – 132, RLC - 133		50

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Seed Production	Kharif – Paddy Rabi – Chickpea Rabi – Fieldpea Rabi - Linseed	90000	300 q.
Nursery	Fruit planting material (Mango, Guava, Papaya, Drumstick, Lemon, Jackfruit, etc) Vegetables – Tomato, Brinjal, Chili, Cauliflower, Cabbage	600	20000
Hatching unit	Kadakhnath, quail and duck	100	2000
Dairy	Sahiwal	150	Milk – 3000 ltr
Goatry	Abhujmad goat	120	8 no.
Poultry	Kakadnath	200	250
Quail farming	Japanies quails	50	1000
Fish cum duck farming	Fish – Rahu, katla, mrigal	1000	10 q.

	Duck – Khaki campbell		
Vermicomposting	30 tanks	500	500 q.
Mushroom cultivation	Oyster mushroom	24	-
Nutritional garden	Kharif and rabi seasons	600	-
Azolla production unit	Kharif and rabi seasons		

ANNUAL ACTION PLAN 2024

KVK Raigarh

Year of sanction: September, 2004

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. B.S. Rajput	07762-219191	8600046551	kvk.raigarh@igkv.ac.in

1.2 Staff Position on (31th Dec.2023)

S. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. B.S. Rajput	Senior Scientist and Head	Horticulture	144200-218200 & 162300	01/08/2017	24/01/2023	8600046551	dr_rajputbs@rediffmail.com	
2	Subject Matter Specialist	Dr. (Smt.) Manisha Choudhary	S.M.S.	Home Science	79800-211500 & 98200	26/10/2007	26/10/2007	9589876363	manisha.kvk@gmail.com	
3	Subject Matter Specialist	Shri Kalesh Kumar Paikra	S.M.S.	Agronomy	67300-213100 & 80300	06/09/2012	06/09/2012	7987277284	kalesh.kp2014@gmail.com	
4	Subject Matter Specialist	Shri K.D. Mahant	S.M.S.	Soil Science	67300-213100 & 80300	10/09/2012	08/06/2020	9617693819	kdm.indian777@gmail.com	
5	Subject Matter Specialist	Smt. Savita Aditya	S.M.S.	Entomology	67300-213100 & 80300	21/09/2012	20/08/2015	8305058487	sdahariya17@gmail.com	
6	Subject Matter Specialist	Dr.CPS Solanki	S.M.S.	L.P.M.	67300-213100 & 80300	24/09/2012	13/10/2021	7000130932	drcpssolanki@gmail.com	
7	Subject Matter Specialist	Dr. N.C.Banjara	S.M.S.	Horticulture	56100-177500 & 65000	08/10/2018	08/10/2018	8518868746	nanakbanjarara14@gmail.com	
8	Programme Assistant	Vacant	-	-	-	-	-	-	-	-
9	Computer Programmer/ Programme Assistant	Shri Ashutosh Singh Shandilya	P.A.	Information Technology	43200-136500 & 51600	20/09/2012	20/09/2012	9425597394	ashutoshsingh536@yahoo.com	
10	Farm Manager	Shri N.K. Patel	Farm Manager	Agro nomy	35400-112400 & 44900	20/10/2014	19/08/2020	8839444891	nkpatel23585@yahoo.com	
11	Assistant	Vacant	-	-	-	-	-	-	-	-
12	Jr. Stenographer / Comp. Operator	Vacant	-	-	-	-	-	-	-	-
13	Driver	Vacant	-	-	-	-	-	-	-	-
14	Driver	Shri Sukhlal Rathiya	Contractual Tractor Driver	-	14200	22/12/2021	22/12/2021	9424187098		
15	Supporting staff	Vacant	-	-	-	-	-	-	-	-
16	Supporting staff	Ku. Sunayna Kuruvanshi	Contractual Peon	-	11360	24/12/2021	24/12/2021	8770119420		

1.3 Total land with KVK (in ha) : 14 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.867
2	Under Demonstration Units	0.12
3	Under Crops	7.457
4	Orchard/Agro-forestry	0.941
5	Others (specify)	0.592
Total		9.977

1.4 Infrastructural Development:**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR-ATARI	2009	480	45,000,000			
2	Farmers Hostel	ICAR-ATARI	2009	420	28,00,000			
3	Staff Quarters (6)	-	-	-	-	-	-	-
4	Demonstration Units (2)	V.V	2017					
5	Fencing	IGKV	2007	-				Damage
6	Rain Water harvesting system		-	-	-	-	-	-
7	Threshing floor	-	-					
8	Farm godown	V.V.	2016	400	20,00,00	-	-	

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2006	8,00,000	5095 hrs.	ok (old)
Motor Cycle 2	2007	45,000	1,11611	ok
Bolero(Jeep)	2016	8,00,000	87136	ok
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2011	90,00,000	ok
Xerox Machine	2012	48,00,000	ok
Generator	-	-	-
Video Camera	-	-	-
Computer, Laser Printer	2012 & 2016	1,50,000	ok
UPS 600 VA	2012	6000	ok
Stabilizer 2 KVA	-	-	
Stabilizer	2012	2000	
Inverter 600 VA (2)	2020	6000	
Inverter Battery (2)	2020	15000	

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	10/06/2024
2	

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Rice –Rice based cropping system
2	AES – 2	Rice –wheat based cropping system
3	AES – 3	Rice –mustard based cropping system
4	AES – 4	Rice-groundnut based cropping system
5	AES – 5	Rice-vegetables based cropping system
6	AES – 6	-

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	Inceptisol soil (sandy Loam, medium shallow deep) low to medium land situation, average(1100 mm) rainfall, irrigated condition
2	AES - 2	Inceptisol soil (sandy Loam, medium shallow deep) low to medium land situation, irrigated condition
3	AES – 3	Inceptisol soil (sandy Loam, medium shallow deep) low to medium land situation, irrigated condition
4	AES – 4	Inceptisol soil (sandy Loam, medium shallow deep) low to medium land situation, irrigated condition
5	AES – 5	Inceptisol soil (sandy Loam, medium shallow deep) low to medium land situation, irrigated condition, drip irrigation with fertigation, plastic mulching
6	AES – 6	-

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name) : Rice –Rice based cropping system

Strength	Weakness	Opportunities	Threats
HYV of cereals	- High seed rate - Heavy infestation of weeds	Promotion line sown through seed cum fertilizer drill	- High use of chemical fertilizers - No use of

AES-2 (name) : Rice –wheat based cropping system

Strength	Weakness	Opportunities	Threats
HYV of cereals	- High seed rate - High temperature	Promotion line sown through seed cum fertilizer drill	High use of chemical fertilizers

AES-3 (name) : Rice –mustard based cropping system

Strength	Weakness	Opportunities	Threats
HYV of cereals	High seed rate	Promotion line sown through seed cum fertilizer drill	High use of chemical fertilizers

AES-4 (name) : Rice-vegetables based cropping system

Strength	Weakness	Opportunities	Threats
HYV of cereals	High seed rate	Promotion line sown through seed cum fertilizer drill	High use of chemical fertilizers

AES-5 (name): Rice-groundnut based cropping system

Strength	Weakness	Opportunities	Threats
HYV of cereals	High seed rate	Promotion line sown through seed cum fertilizer drill	High use of chemical fertilizers

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	5,03,128
Forest	57,994
Waste Land	10,575
Other than cultivated area	9,950
Cultivable waste and alkaline land	2,555
Pastures	20,500
Bushes	2,500
Current Fallow	2,300
Other Fallow	-
Agricultural Land	4,82,285
Area Sown	3,02,265
Kharif	3,01,171
Rabi	1,80,020
Zaid	40, 256
Cropping Intensity	139

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	45000
2	Well	52900
3	Tube well	1108151
4	Ponds	6934
5	Others	66414

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Bhata soil (Entisol)	Sandy, light and shallow	48472.64 (16%)
2	Matasi soil (Inceptisol)	Sandy Loam, medium shallow deep	148447.46 (49%)
3	Dorsa soil (Alfisol)	Clay loam, heaver deep	84827.12 (28 %)
4	Kanhar soil (Vertisol)	Clayey heaver deep	21206.78 (07 %)

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
1	Rice	229230	4710676	20.55
2	Black Gram	27100	153657	5.67
3	Pigeon pea	8700	57333	6.59
4	Groundnut	8250	91905	11.14
5	Sesame	5100	24990	4.9

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
1	Tomato	3585	56015	190.1
2	Brinjal	1320	21912	170.5
3	Chilli	4558	29130	
4	Ginger	1706	18766	163.8
5	Turmaric	918	7860	171.9

Rabi Season:-

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (q/ha)
01.	Summer Rice	24010	831226	34.62
02.	Mustard	15040	99264	6.6
03.	Groundnut	12590	181170	14.39
04.	Wheat	10780	210426	19.52
05.	Sunflower	9960	73007	7.33
06.	Pea	5480	31400	5.73
07.	Black Gram	5050	34895	6.91
08.	Green Gram	4440	26995	6.08
09.	Lathyrus	4140	20245	4.89
10.	Chick Pea	2700	29565	10.95
11.	Potato	3385	53511	220.7-
12.	Bhindi	1355	18422	110.6
13.	Cauliflower	680	11383	180.3
14.	Cabbage	932	16422	201.5
15.	Onion	1180	18821	140.2

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (mm)	Temperature (°C)	
		Maximum	Minimum
Jan. 2023	0	26.5	10.2
Feb. 2023	0	30.2	11.3
Mar. 2023	61.2	34.0	17.6
Apr. 2023	0	39.3	21.1
May. 2023	33.2	44.9	23.2
Jun. 2023	209.1	44.0	22.1
July. 2023	212.3	38.5	19.3
Aug. 2023	301.4	35.8	18.4
Sept. 2023	263.3	35.7	16.8
Oct. 2023	47.7	34.3	17.6
Nov. 2023	0	34.7	16.3
Dec. 2023	0	29.6	15.2

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	37443/157924	 MT.	 kg
Buffalo	8094	 MT.	 kg
Sheep			
Crossbred/ Indigenous	57/19274	 MT wool	 kg
Goats	217858	 MT	 kg
Pigs Crossbred/ Indigenous	481/9807	---	---
Rabbits			
Poultry			
Hens	-	 Lakh eggs	 eggs/ bird/yr
Turkey and others	-		
Category	Area	Production	Productivity
Fish	120 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2024)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
01.	Raigarh	Raigarh	Junwani	Rice & Vegetables	High seed rate, heavy infestation of weed, local variety, Imbalance use of inorganic fertilizer and not practice of water soluble fertilizer in vegetable (cauliflower& tomato).	Crop production
02.	Gharghoda	Gharghoda	Chharratangar	Sesame & Groundnut	Lack of awareness about improved management practices and HYV varieties, Heavy infestation of weed and local variety	Weed management
03.	Tamnar	Tamnar	Padigaon	Turmeric	Lack of awareness about improved management practices and HYV varieties	Crop production
04.	Kharsia	Kharsia	Navapapra	Wheat & Mustard	High seed rate, Heavy losses of yield due to high infestation of insect	Crop production
05.	Pussore	Pussore	Bonda, Bunga	Sunflower, Lathyrus	Lack of awareness about improved management practices and HYV varieties, Local variety and not practice of water soluble fertilizer	Crop production
06.	Lailunga	Lailunga	Bansdad & Sardega	Linseed	Lack of awareness about improved management practices and HYV varieties	Crop production
07.	Raigarh	Raigarh	Kenapali	Cattle	Unavailability of round the year fodder	Animal production
08.	Raigarh	Raigarh	Junwani	Poultry	High mortality and low growth due to improper feeding	Poultry production
09.	Pussor	Pussor	Jhalmala	Poultry	Slow growth, Mortality due to stress during summer	Poultry production
10.	Raigarh	Raigarh	Sambalpuri	Cattle	Worm infestation in cattle and goat and green fodder scarcity	Cattle management

Priority / Thrust areas

S. No.	Particulars
1.	Promotion of high yielding variety of crops.
2.	Promotion of INM & IPM in cereal, pulse, oilseed & vegetable crops.
3.	Promotion of integrated pest management in cereal, pulse and oilseed crops.
4.	Promotion of off season cultivation of vegetables.
5.	Promotion of disease/pest resistant/tolerant varieties of vegetables.
6.	Promotion of micro-irrigation system in horticultural crops

7.	Promotion of high density planting system in horticultural crops
8.	Promotion of protected cultivation in horticultural crops
9.	Promotion of combined use of inorganic and organic fertilizer.
10.	Promotion of bio fertilizers application
11.	Promotion of new molecules insecticide for insect-pest management
12.	Awareness about Malnutrition in preschool children,
13.	Awareness in Adolescence & women About anemia.
14.	Promotion of lac cultivation, scientific harvesting of madhuca longifolia flower (mahua flower)
15.	Promotion of mushroom cultivation and value addition of fruits and vegetables
16.	Promotion of round the year production by Napier and maize production as fodder crop
17.	Promotion of natural substance as anti inflammatory and growth promoter in poultry
18.	Promotion of proper feeding package practices for goat production and management

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
13	68	13	156

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2000	36	1620

Seed Production (Qtl.)	Planting material (Nos.)
400	5000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1									
2									
3									
4									

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Weed management		1								1
Varietal evaluation (Line sowing)	1				1				1	3
Wilt management					1					1
IPM	1									1
IDM		1								1
INM	1	1								2
TOTAL	3	3			2				1	

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Animal production management	-	01	-	01	-	-	-	02
TOTAL	-	01	-	01	-	-	-	02

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Crop	
Title of on farm trial	Assessment of Weed Management in Groundnut	
Problem diagnosed	Low productivity due to heavy infestation of weeds	
Farmers' Practices	Manual weeding at 45-50 DAS	
Details of technologies selected for assessment	T ₁	Application of post emergence herbicide imazamox+imazethapyr 80% WG @ 70 g a.i ha ⁻¹ at 20 DAS i.e. 2-3 leaf stage of weeds.
	T ₂	Application of post emergence herbicide Sodium Aciflourfen 16.5%+Clodinafop-propargyl 8% (80+165g/ha) at 20-25 DAS i.e. 2-3 leaf stage of weeds.
Source of technology	DWR, Jabalpur and SKRAU, Bikaner (Rajasthan) 2021	
Plot size	2.0 ha	
No. of farmers	05	
Total cost	Rs. 3000/-	
Critical input	Herbicides, Biofertilizers (Rhizobium & PSB culture)	

Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	No. of weeds/m ² , No of pods /plant, Yield (q/ha)

OFT-2

Crop / Enterprise	Crop
Title of on farm trial	Assessment of high yielding varieties in finger millet
Problem diagnosed	Low productivity due to local variety.
Farmers' Practices	T ₁ Use of local variety (<i>Aghani madua</i>)
Details of technologies selected for assessment	T ₂ Use of Chhattisgarh Ragi-2
	T ₃ Use of Chhattisgarh Ragi-3
Source of technology	IGKV, Raipur
Plot size	2.0 ha
No. of farmers	05
Total cost	Rs. 1500/-
Critical input	1. Seed 2. Biofertilizers (Azotobacter & PSB culture)
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	Tillers /plant, Yield (q/ha)

OFT-3

Crop / Enterprise	Crop
Title of on farm trial	Assessment of varietal evaluation for wilt management in tomato
Problem diagnosed	Low yield of tomato due to high incidence of diseases
Farmers' Practices	
Details of technologies selected for assessment	T ₁ Use of local variety (Pusa rubi)
	T ₂ T2- Arka Rakshak with Seed treatment by <i>Trichoderma viride</i> @ 10gm/kg seed and soil application along with FYM @ 250kg/ha+2.5 kg <i>Trichoderma viride</i>
	T ₃ Arka Samrat with Seed treatment by <i>Trichoderma viride</i> @ 10gm/kg seed and soil application along with FYM @ 250kg/ha+2.5 kg <i>Trichoderma viride</i>
Source of technology	IIHR- Bangalore, 2016
Plot size	0.04 ha total area 0.16 ha
No. of farmers	05
Total cost	Rs. 5000/-
Critical input	Tomato seed and <i>trichoderma viride</i>
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	No. of plant mortality (m ²), yield (kg/plant), yield (q/ha) and B:C ratio

OFT -4

Crop / Enterprise	Crop
Title of on farm trial	Assessment of kharif onion cultivars in Raigarh districts
Problem diagnosed	Lack awareness of growing kharif onion
Farmers' Practices	T ₁ Lack awareness of growing kharif onion
Details of technologies selected for assessment	T ₂ Bhima Super (Late Kharif 110-115 days & potential yield 48.0 t/ha.)
	T ₃ Bhima Shakti (Late Kharif-130 days & potential yield 42.7 t/ha.)
Source of technology	DOGR, Pune (MH), 2016

Plot size	0.04 ha total area 0.16 ha
No. of farmers	05
Total cost	Rs. 10000/-
Critical input	Onion seeds
Performance indicators: (ii) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	Bulb wt.,(g/plant), Bulb yield (q/ha) and B:C ratio

OFT-5

Crop / Enterprise	Crop
Title of on farm trial	Assessment of grafted brinjal against wilt management
Problem diagnosed	Low yield due to heavy infestation of bacterial wilt
Farmers' Practices	T1- Brinjal seedling (Pusa purple long
Details of technologies selected for assessment	T ₂ T2- Grafted brinjal (variety-VNR-212) with Seedling treatment by <i>Trichoderma viride</i> @ 10gm/water + soil application of FYM @ 250kg/ha+2.5 kg <i>Trichoderma viride</i>
Source of technology	IGKV, Raipur
Plot size	0.04 (ha) total area 0.20(ha)
No. of farmers	05
Total cost	Rs. 15000/-
Critical input	Grafted seedling (Plant)
Performance indicators: (iii) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	Plant mortality (%/m ²), No. of fruits / plant, fruit yield (kg/plant), yield (q/ha) and B:C ratio

OFT- 6

Crop / Enterprise	Crop (Rice)
Title of on farm trial	Assessment of new molecule insecticide against rice stem borer
Problem diagnosed	Yield loss due to heavy infestation of stem borer
Farmers' Practices	Use of Conventional insecticide (Profenofos & Cypermethrin)
Details of technologies selected for assessment	T ₁ Farmers practice T ₂ Spinetoram 11.7% SC @ 375ml/ha (Safer for natural enemies)
Source of technology	IGKV, Raipur 2019-20
Plot size	0.4 acre
No. of farmers	05
Total cost	5000.00
Critical input	Insecticide
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation	No. of dead heart /white ear head/ m ² , yield (qt/ha) and B:C ratio

OFT-7

Crop / Enterprise	Crop (Mustard)
Title of on farm trial	Assessment of Integrated pest management against Mustard Aphid
Problem diagnosed	yield loss due to infestation of mustard aphid
Farmers' Practices	T ₁ . Imidacloprid 17.8SL @ 0.5ml/lit water
Details of technologies selected for assessment	T ₂ Installation of Yellow Sticky trap @ 50/ha + Spray of <i>Metarhizium anisopili</i> @ 10ml/ lit. of water (Twice spray in the case on aphid initiation)
Source of technology	NCIPM and IGKV, Raipur
Plot size	0.4 ha
No. of farmers	05
Total cost	5000.00
Critical input	Yellow sticky trap and Bio-pesticide

Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iv) Economic (iv) Social – Employment generation	No. of aphid attracted per sticky trap, No. of aphid/cm top of inflorescence ' Yield q/ha., B:C ratio

OFT- 8

Crop / Enterprise	Crop
Title of on farm trial	Assessment of natural farming based nutrient management in local scented rice. Variety- Jawafful
Problem diagnosed	Degrading and poor soil & product quality.
Farmers' Practices	T ₁ . Use of FYM @ 1-1.5 ton / ha, and no use of Beejamrit + Ghanjeevamri + Jeevamrit
Details of technologies selected for assessment	T ₂ T2- Seed treatment with Beejamrit + application of Ghanjeevamrit@ 250 kg/ha. mix with FYM@ 250 kg/ha at the time of field preparation + foliar spray of Jeevamrit@ 500 liter/ha in 15 days interval after sowing + organic pesticide (Neemastra and Agniastra)
Source of technology	Gurukul institute, Kurukshetra, Haryana, 2017.
Plot size	0.4 ha
No. of farmers	05
Total cost	Rs. 10,000/-
Critical input	Raw materials for preparation of Jivaamarit, Beejamrit, Ghanjivamarit, Biopesticides
Performance indicators: (v)Growth and Yield attributes (vi) Technical- yield (q/ ha) (vii) Economic (viii) Social – Employment generation	No. of tillers/plant, yield (q/ha) & B:C ratio

OFT- 9

Crop / Enterprise	Crop
Title of on farm trial	Assessment of sulphur application in mustard
Problem diagnosed	Low productivity, and less oil content due to imbalance use of fertilizers
Farmers' Practices	T ₁ . Imbalance use of fertilizer and no use of sulphur in oilseed
Details of technologies selected for assessment	T ₂ Use of Bentonite Sulphur (90%) as basal dose@ 25 kg/ha, seed treatment with PSB and Azatobactor @ 10 gram / kg of Seed .
Source of technology	IGKV, Raipur,2016
Plot size	0.4 ha
No. of farmers	05
Total cost	Rs. 7500/-
Critical input	Bentonite sulphur & bio-fertilizers.
Performance indicators: (ix) Growth and Yield attributes (x)Technical- yield (q/ ha) (xi)Economic (xii)Social – Employment generation	No. of Siliqua/plant, Oil % & Yield (q/ha) & B:C ratio

OFT-10

Crop / Enterprise	enterprises
Title of on farm trial	Assessment of composite dewormer and chelated mineral mixture combination on growth performance of goat
Problem diagnosed	Higher incidence of external and internal parasites infestation
Farmers' Practices	T ₁ . No use of composite dewormer and chelated mineral mixture
Details of technologies selected for assessment	T ₂ Deworming in every 3months by composite dewormer (Ivermectine) and feeding of chealated minerals (@ 10-15g/day)
Source of technology	NDVSU, Jabalpur 2020
No. of animals	16

No. of farmers	04
Total cost	Rs. 6000/-
Critical input	Composite dewormer and chelated mineral mixture
Performance indicators: (xiii) Growth and Yield attributes (xiv) Technical- yield (q/ ha) (xv) Economic (xvi) Social – Employment generation	Growth (kg/goat) in 6 months, B:C ratio

OFT- 11

Crop / Enterprise	Enterprise
Title of on farm trial	Assessment of silage making for milking animal
Problem diagnosed	Poor supply of nutrients to livestock particularly during scarcity period
Farmers' Practices	T ₁ . Not to practice of silage making and Fed poor quality feed like Paddy straw, wheat straw during lean period
Details of technologies selected for assessment	T ₂ Feeding of silage @ 7-8 kg per day/animal (Silage is the material produced by controlled fermentation of nutrients under an anaerobic condition and storage over longer period, if properly packed under optimal ensiling conditions).
Source of technology	NDRI, Karnal (2019)
No. of animals	08
No. of farmers	04
Total cost	Rs. 16000/-
Critical input	Maize seeds , silo bags
Performance indicators: (xvii) Growth and Yield attributes (xviii) Technical- yield (q/ ha) (xix) Economic (xx) Social – Employment generation	Milk production (kg) for 6 months) & B:C ratio

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT:

OFT-12

Title of on-farm trial:	Assessment of Finger Millets Laddu for Malnourished pre-school children
Year/Season:	2024 (Oct.-Dec.) Rabi
Problem diagnosis:	malnutrition in preschool children.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	10
No. of farmers/farm women involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	Millets - Ragi laddu with Rosted Ragi flour 25gm, Sesamum 5 gm, Groundnut 5gm. , Jiggery 15gm, @ 50gm laddu/ day for three months.
Source of technology:	Central Food Technological Research Institute (CFTRI), Mysore, 2015
Characteristics of technology:	Milllets -Ragi laddu as a nutrient supplement for pre School children.
Name of Crop/Enterprises:	-
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-13

Title of on-farm trial:	Assessment on Processing of Turmeric Pickle Making. (Curcumin and Curcuma amada)
Year/Season:	2024 (March-April)Summer
Problem diagnosis:	Low income of farm families.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Value addition (Income Generation)
No of trials:	04
No. of farmers/farm women involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	
T2 –Recommended Practice-	Processing of turmeric as a pickle by using Salt, lemon juice / vinegar , chilli powder, Mustard oil. With proper packaging .
Source of technology:	Indian Journal of Traditional Knowledge, 2020

Characteristics of technology:	
Name of Crop/Enterprises:	-
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Rice	Crop production	Demonstration on Improve Crop Management Practices for Yield Maximization in Rice..	Seed, herbicide and Bio-fertilizers (Azotobacter & BSP culture)	Kharif -2024	4.8	12	No. of weeds/m ² , No. of tillers plant ⁻¹ , Grain yield q ha ⁻¹ , Net return (Rs.ha ⁻¹) and B:C ratio.
2	Lathyrus	Crop production	Demonstration on improved utera (relay cropping) technique in lathyrus.	Seed, biofertilizers (Rhizobium, PSB culture & Trichoderma) and insecticide	Rabi-2024-25	4.8	12	No. Plant height, Root nodule plant ⁻¹ , Grain yield (q ha ⁻¹), Net return (Rs.ha ⁻¹) and B:C ratio.
3	Lac	Plant protection	Use of new molecule insecticide Emamectin Benzoate 5%SG @ 0.60g/lit. of water + Carbendazim 50%WP @3gm/15 lit. of water spray on 30-35 day of inoculation, second spray on 60-65 days of inoculation.	Insecticide and Fungicide	Rabi-2024-25	12 tree	12	No. of <i>E. amabilis</i> / <i>P. pulveria</i> per 30cm lac stick , Yield/tree & B:C ratio
4	Rice	Plant protection	Demonstration of panicle mite management in rice	Acaricide and Fungicide	Kharif 2024-25	4.8	12	No. of healthy grain/ no. of discolored grains/ no. of chaffy grain per panicle, yield (qt/ha) and B:C ratio
5	Turmeric	Crop production	Demonstration on high yielding variety of turmeric	Turmeric Seeds (Rhizome), bio-fungicide	Kharif -2024	0.48	12	Yield (kg/plant), yield (q/ha) and B: C ratio
6	Onion	Crop production	Demonstration on chemical weed management in onion	Seeds and herbicide	Rabi-2024-25	0.48	12	Weed density/sq m area, bulb wt.,(g/plant), bulb yield (q/ha) and B:C ratio

7.	Rice	Nutrient management	Demonstration of leaf color chart for nitrogen time management in paddy	Seed and Leaf color chart	Kharif, 2024	4.8	12	Yield qt/ha , B:C ratio, N saving (kg)
8.	Finger millet	INM	Demonstration of integrated nutrient management in finger millet	Seed, Bio-fertilizer ,Vermicompost	Rabi-2024-25	0.48	12	Number of tiller/plant, yield (q/h) & B:C ratio
9.	Goat	Goat management	Demonstration of Combined (package) feeding practice for reduction in kidding age of goat	Dewormer and Mineral mixture	Kharif, 2024	10	10	Growth, % pregnancies
10	Cattle	Cattle management	Demonstration of Napier, mineral mixture and Azolla feeding for enhancing milk production	Napier slips, Mineral mixture and Azolla beds	Rabi, 2024	10	10	Milk production (kg) in 6 months
11	Mushroom	Income generation	Demonstration on Paddy straw Mushroom	Spawn, Chemical	Kharif 2024		12	Yield, Net income, B:C ratio
12.	Ginger	Income generation	Demonstration on Processing of Ginger for candy and ginger powder making.	Ginger, Sugar	Summer 2024	-	12	Net income, B:C ratio
13.	Vegetable	Nutritional security	Demonstration on nutrition garden	Seed ,Seedling Sapling	2024 Year Around	0.3	12	Per capita consumption/day, anthropometric observation, yield (kg)

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6	Jan. to Dec.	245
2	Farmers Training	20	Jan. to Dec	500
3	Media coverage	7	Jan. to Dec	mass
4	Training for extension functionaries	6	Jan. to Dec	120

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
-	-	-	-	-	-	-	-	-

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of	No. of	Critical	Performance	* Data on parameter in

		farmers	animals, poultry birds etc.	inputs	parameters / indicators	relation to technology demonstrated	
						Demo.	Local check
Cattle	GIR.Sahiwal	10	20	Azolla beds, Napier slips, mineral mixture	Milk production,	-	-
Goat	local	10	40	Mineral mixture ,dewormer	Body wt.	-	-

**Milk production, meat production, egg production, reduction in disease incidence etc.*

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	--	-	-	-	-	-	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Sesame	ICM	Line sowing, Seed treatment by (carbendazime 3g/kg, thiamethoxam 2g/kg & BSP culture 5ml/kg), Soil application of <i>Trichoderma</i> , weed, insect-pest and disease management	Seed, bio-fertilizers, Insecticide, herbicide & fungicide	Kharif 2024	10	25	No. of capsules/plant, No. of seeds/capsule, yield (q/ha)
2	Groundnut	ICM	Line sowing, Seed treatment by (carbendazime 3g/kg, thiamethoxam 2g/kg & BSP culture 5ml/kg & rhizobium culture 5ml/kg), Soil application of <i>Trichoderma</i> , weed, insect-pest and disease management	Seed, bio-fertilizers, Insecticide, herbicide & fungicide	Kharif 2024	10	25	No. of pods/plant, No. of seed/pod, yield (q/ha)

3	Mustard	ICM	Line sowing, Seed treatment by (carbendazime 3g/kg, thiamethoxam 2g/kg & BSP culture 5ml/kg), Soil application of <i>Trichoderma</i> , weed, insect-pest and disease management	Seed, bio-fertilizers, Insecticide, herbicide & fungicide	Rabi 2024-25	20	50	No. of siliqua/plant, No. of seed/siliqua, yield (q/ha)
4	Sunflower	ICM	Line sowing, Seed treatment by (carbendazime 3g/kg, thiamethoxam 2g/kg & BSP culture 5ml/kg), Soil application of <i>Trichoderma</i> , weed, insect-pest and disease management	Seed, bio-fertilizers, Insecticide, herbicide & fungicide	Rabi 2024-25	10	25	Yield (q/ha)

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	Jan- Dec	250
2	Farmers Training	08	Jan- Dec	200
3	Media coverage	05	Jan- Dec	500
4	Training for extension functionaries	6	Jan- Dec	250

A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
a) Vegetable & fruit Crops									
Off-season vegetables	01	1	10	4	14	8	5	13	27
Protective cultivation (Green Houses, Shade Net etc.)	01	1	8	7	15	7	8	11	30
Total	02	2	18	11	29	15	13	24	57
b) Fruits									
Management of young plants/orchards	01	1	12	5	17	10	8	22	35
Total	01	1	12	5	17	10	8	22	35
c) Ornamental Plants	01	1	8	4	12	7	6	13	25
Total	01	1	8	4	12	7	6	13	25
d) Plantation crops	01	1	6	7	13	5	5	10	23
Total	01	1	6	7	13	5	5	10	23
e) Tuber crops	01	1	7	5	12	8	6	14	26
Total	01	1	7	5	12	8	6	14	26
f) Spices									
Production and Management technology	01	1	7	8	15	6	8	14	29
Total	01	1	7	8	15	6	8	14	29
g) Medicinal and Aromatic Plants									
Production and management technology	01	1	8	5	13	7	9	16	29
Total	01	1	8	5	13	7	9	16	29
Grand total (Horticulture)	08	01	66	47	111	58	55	113	224
III Soil Health and Fertility Management									
Soil fertility management	01	01	07	06	13	05	04	09	22
Soil and Water Conservation	01	01	04	08	12	06	07	13	25
Integrated Nutrient Management	01	01	08	06	12	07	04	11	25
Production and use of organic inputs	01	01	08	05	13	06	06	12	25
Management of Problematic soils	01	01	11	04	15	04	06	10	25
Micro nutrient deficiency in crops	01	01	12	04	16	03	06	09	25
Nutrient Use Efficiency	01	01	10	04	14	05	06	11	25
Soil and Water Testing	01	01	04	05	09	06	07	16	25
Total	08	01							197
IV Livestock Production and Management									
Dairy Management	01	03	10	4	14	8	5	13	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Poultry Management	01	02	8	7	15	5	5	10	25
Disease Management	01	02	15	-	15	10	-	10	25
Feed management	01	02	10	3	13	8	4	12	25
Production of quality animal products	01	02	5	10	15	07	03	10	25
Total	05	02	38	20	58	30	12	42	125
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	1	1	0	15	15	0	10	10	25
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Value addition	1	1	0	15	15	0	10	10	25
Income generation activities for empowerment of rural Women	1	1	0	15	15	0	10	10	25
Location specific drudgery reduction technologies									
Women and child care									
Total	3	3	0	45	45	0	30	30	75
VI Agril. Engineering									
Total									
VII Plant Protection									
Integrated Pest Management	1	1	12	2	14	10	1	11	25
Integrated Disease Management	1	1	10	5	15	08	2	10	25
Bio-control of pests and diseases	1	1	15	3	18	6	1	7	25
Production of bio control agents and bio pesticides	1	1	10	2	12	10	3	13	25

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Integrated Pest Management											
Integrated Nutrient management	1	1	7	2	-	9	11	5	-	16	25
Protected cultivation technology											
Group Dynamics and farmers organization											
Capacity building for ICT application											
Livestock feed and fodder production	01	01	10	02		12	11	02		13	25
Production and use of organic inputs											
Gender mainstreaming through SHGs											
Any other (Pl. Specify)											
TOTAL	2	1	17	4	-	21	22	7	-	29	50

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	1	7	2	9	11	5	16	25
Resource Conservation Technologies	1	1	10	3	13	7	5	12	25
Cropping Systems	1	1	13	-	13	12	-	12	25
Crop Diversification	1	1	7	2	9	12	4	16	25
Integrated Farming	1	1	12	4	16	6	3	9	25
Water management									
Seed production	1	1	11	2	13	8	4	12	25
Nursery management									
Integrated Crop Management	1	1	12	4	16	7	2	9	25
Fodder production	1	1	11	2	13	09	3	12	25
Production of organic inputs									
Total	7	7	72	17	89	63	23	86	175
II Horticulture									
a) Vegetable Crops									
Nursery raising	01	1	8	9	17	8	10	18	35
Export potential vegetables	-	-	-	-	-	-	-	-	-
Protective cultivation (Green	01	1	7	8	15	9	7	16	31

1. On Campus

[illegible]

[illegible][illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
OILSEEDS			
PULSES			
VEGETABLES	Coriander	CG shri chandrasahini dhaniya-2	8
FLOWER CROPS	Merigold	Pusa Bhar	0.05
	Tuberose	Vaibhav, hyderabad single	0.04
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango	Dashehari, Langra, Amrapali	300
	Dragan Fruit	Hylocereus polyrhizus	2000
	Lime	Pramalii, Sai sarbati	100
SPICES	Turmeric	Cg Haldi 3	5q
	Ginger	Suprabha	3q
VEGETABLES	Couliflower	Pusa snowball	5000
	Chilli	Sunidhi	5000
	Tomato	Laxmi 5005	5000
	Brinjal	VNR 212	5000
FOREST SPECIES			
ORNAMENTAL CROPS	Euphorbia	-	100
	Singonium	-	50
PLANTATION CROPS			
	Rubber	Robusta	150
Others (specify)	Semialata plant	-	2500

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Calf	Gir	02	
SHEEP AND GOAT				
POULTRY	Chicks	Kadaaknath	100	
FISHERIES				
Others (Specify)				

Literature to be Developed/Published**KVK News Letter**

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case: ...2.....(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1			
2			
3			
4			
5			

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	-	-	-	-
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

NICRA programmes

Component Wise	Activity details	Targeted Beneficiaries/ Farmers	Area/No./Coverage (hac)
Natural Resource management	Ridge bed technique in vegetables	10	1.5
	Low cost technique of vermicomposting	10	-
	Initiation of stop dam construction convergence with zila panchayat	-	-
	Drip irrigation	5	.5
	Plastic mulching in vegetable	5	.5
	Crop residue mulching in vegetables	5	.5
	Line transplanting of paddy	10	3
	Foliar application Nano urea & Nano DAP in paddy	10	3

Crop Production Technology	Improved variety (Gajendra) of Elephant food yam	10	1
	Bower system & improved variety in sem (Indira sem 1)	10	1
	Cabbage (HYV & nursery management)	10	3
	Cauliflower (HYV & nursery management)	10	3
	Onion cultivation	10	1
	Tomato (wilt resistant variety)	10	2
	Improved variety of mustard (CG mustard 3)	10	2
	Paddy mushroom production	20	2
	Oyster mushroom production	20	1
	Improved grafted seedlings of brinjal	10	1
	Wheat crop production through seed drill	10	2
	Nano urea application in wheat	10	2
	Promotion of protay technique in turmeric at NICRA village	10	1
Livestock and Fisheries	Poultry farming	10	-
	Low cast azolla	10	-
	Animal (Cow & Buffalo) vaccination	20	100
	Goatry vaccination	05	65
	Promotion of A. I.	10	10
	Promotion of fodder (Napier/Barseem)	10	1
	Promotion of mineral mixture to milking cow	20	30
	Deworming in cattale	20	100
	Deworming in goatry	05	65
Institutional intervention	Promotion of CHC at NICRA village	-	-

Capacity Building Programmes

S. No.	Activity details	Targeted Beneficiaries
1	Training on use of soil health card & soil testing	40
2	Capacity building of Oyster mushroom production technique	20
3	Capacity building of paddy mushroom production technique	20
4	Training on elephant food yam production technique	10
5	Training on natural cum organic farming	20
6	Demonstration of low cast vermin composting production technique	10
7	Demonstration of low cast azolla production technique	10
8	Demonstration of foliar application of nano urea in paddy	20
9	Demonstration of foliar application of nano urea in vegetable crops	20
10	Training cum demonstration of sticky trap for pest management	20
11	Training cum demonstration of pheromone trap for pest management	10
12	Capacity building on Bee keeping	10
13	Seedling treatments of vegetables from bio agents against soil borne pathogens	20
14	Capacity building on profitable dairy farming & livestock management	25

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 1100 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	Vikram TCR, CG Jawaful trombay, CG Tejaswi Dhan, Protezin dhan		550
Kodo	Kharif	Indira kodo-1,CG kodo-2, CG kodo-3		
Kutki	Kharif	CG kutki-1, CG kutki-2, CG Sonkutki		
Ragi	Kharif	Indira ragi-1, CG ragi-2, CG ragi-3		
Turmeric	Kharif	Chhattisgarh Haldi-1,2,3, Aama haldi, Kali haldi etc		
Mustard	Rabi	Pusa vijay, pusa bold & Chhattisgarh sarson		550
Coriander	Rabi	CG Shri Chandrahasini Dhaniya-2		
Wheat	Rabi	Kanishka, CG Amber wheat, CG gehu 3, CG Gehu 4		
Seed Spices	Rabi	Coriander- C.G. Shri chandrahasini dhaniya-2, Fenugreek- Ajmer F-1, Fennel- Ajmer fennel -1, Ajwain- C.G Ajwain - 1, Dill- Ajmer dill-1, Black cumin- Ajmer Nigella-1, Cumin- gujrat cumin-4, kasuri methi		

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Dairy Unit	Gir Breed	104	Milk and Cow dung, Urine
Azolla Production unit	Azolla	6	For Cows
Vermicompost Unit	Circular system	325	Vermicompost and vermi-wash
Vegetable production unit (Nutrition Garden)	Seasonal vegetables	310	Vegetables
Fodder production unit	Year round	3844	Fodders for Cows
Mother Orchard Unit	Mango, Guava, Citrus, Litchi	4275	Awaited
Mushroom Production unit	Mushroom	60	Mushroom to sell
Small Nursery Unit	Saplings and Seedlings	126	To sell and distribution to district farmers
Crop cafeteria	Kharif & Rabi crops	550	Suitable varieties and its produces to process & sell

ANNUAL ACTION PLAN 2024

KVK Raipur

Year of sanction: 2024

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr Goutam Roy	-	9131888065	kvk.raipur@igkv.ac.in

1.2 Staff Position on (31th Dec.2023)

S. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Dr. Goutam Roy	Sr. Sci & Head	Veterinary Sci.	162300	14-06-2017	19-10-2022	8839520304	kvkraipur@gmail.com	
2	Subject Matter Specialist	Dr. Saugat Sasmal	SMS	Fisheries	78000	06-09-2012	16-11-2016	9406027360	drsasmal@gmail.com	
3	Subject Matter Specialist	Dr. Rajesh Kumar Agrawal	SMS	Agril. Engg.	78000	06-09-2012	17-11-2016	9425523543	rajesh.agrawal29@gmail.com	
4	Subject Matter Specialist	Mr. Vivek Kumar Swarnkar	SMS	Agronomy	78000	07-09-2012	06-12-2016	9713982121	swarnkarvk@rediffmail.com	
5	Subject Matter Specialist	Mr. Manoj Kumar Sahu	SMS	Horticulture	78000	12-09-2012	21-11-2016	9406285152	mksnarayanpur@rediffmail.com	
6	Subject Matter Specialist	Dr. Shwati Pardhi	SMS	Plant Pathology	65000	06-10-2018	13-08-2019	7828044299	swatiphpath@gmail.com	
7	Subject Matter Specialist	Dr. Prem Shankar Tiwari	SMS	(Entomology)	56100	14-09-2023	14-09-2023	8319084653	Premagri25@gmail.com	
8	Programme Assistant	Dr. Chandramani Sahu	PA (Agril)	Entomology	35400	31-10-2019	30-10-2019	9407760704	chandrasahu2111@gmail.com	
9	Computer Programmer / Programme Assistant	Mrs. Sonali Rajpoot	PA (Comp)	Compt. Sci.	50100	06-09-2012	21-11-2016	9425595559	so_raj2000@yahoo.co.in	
10	Farm Manager	Dr. Uttam Kumar	Farm Manager	Soil Science & Agricultural Chemistry	35400	22-11-2019	22-11-2019	7728981703	uttamdewangan.1991@gmail.com	
11	Assistant	Mrs. Shashikala Tiwari	AG-1		33300		30-12-2022			
12	Jr. Stenographer / Comp. Operator	-								
13	Driver	Shri Piyush Nishad	Driver		25400		8-11-2020	9109361983		
14	Driver	-								
15	Supporting staff	-								
16	Supporting staff	-								

1.3 Total land with KVK (in ha):.....

S. No.	Item	Area (ha)
1	Under Buildings	2.4
2	Under Demonstration Units	-
3	Under Crops	8.6
4	Orchard/Agro-forestry	2.4
5	Others (specify)	6.6
Total		20

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2-8-2021					
2	Farmers Hostel							
3	Staff Quarters (6)	Nil						
4	Demonstration Units (2)	Nil						
5	Fencing	RKVY	2019-20	200 sq ft	-			
6	Rain Water harvesting system	Nil						
7	Threshing floor							
8	Farm godown	-						

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2018	8.00 Lakh		In Use
Motor Cycle 2	Nil			
Bolero(Jeep)	2018	8.00 Lakh		In Use
Other (Pl. specify)				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Cultivator			Working
Cultivator			Working
Seed Drill			Working
Seed Drill			Working
Disc			Working
Happy Seeder			Working
Rotavator			Working
Reaser			Working

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	May-June month
2	

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	
2	AES – 2	
3	AES – 3	
4		
5		
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1	
2	AES - 2	
3	AES – 3	
4	AES – 4	
5	AES – 5	
6	AES – 6	

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	2,89,197 ha
Forest	1,551 ha (00.54 %)
Waste Land	
Other than cultivated area	
Cultivable waste and alkaline land	
Pastures	35,417 ha
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	2,17,507 ha (75.21%)
Area Sown	1,65,747 ha (57.31%)
Kharif	1,61,770 ha (55.94 %)
Rabi	55,737 ha (19.27%)
Zaid	
Cropping Intensity	131 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	
2	Well	
3	Tube well	
4	Ponds	
5	Others	

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Entisol		2622800
2	Inceptisol		2000900
3	Vertisol		3569100
4	Alfisol		5272500

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop (Kharif Season)	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Rice	160.74	482.06	2999
2	Maize	0.60	0.73	2715
3	Pigeonpea	0.45	0.22	491
4	Greengram	0.40	0.05	585
5	Blackgram	0.50	0.05	662
S. No	Crop (Rabi Season)	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Rice	12.41	31.69	2552
2	Lathyrus	11.52	6.89	595
3	Chickpea	1.85	1.89	1022
4	Wheat	5.28	9.71	1840
5	Mustard	4.84	2.61	540

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	18.00	25.5	12.8
Feb, 22	07.00	29.7	13.3
Mar, 22	00.00	36.5	18.6

Apr, 22	06.60	41.4	25.0
May, 22	36.60	26.7	41.3
Jun, 22	68.80	39.3	26.8
July, 2022	349.0	31.6	25.3
Aug., 2022	432.6	31.4	25.0
Sept., 2022	173.60	31.50	24.70
Oct. 2022	59.20	31.20	21.50
Nov. 2022	00.00	29.90	13.80
Dec. 2022	00.00	29.80	12.80

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>		 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>		 MT wool	 kg
Goats		 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>		---	---
Rabbits			
Poultry			
Hens		 Lakh eggs	 eggs/ bird/yr
Turkey and others			
Category	Area	Production	Productivity
Fish	 (ha)	q/ month	 q/ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Raipur	Arang	Gullu	Ridge gourd hy. Seed production	No use of quality seed material	quality seed and planting material.
2	Raipur	Dharsiwa	Tekari	Many enterprises comes under Co society	Entrepreneurship development of rural youths and woman SHG members	Entrepreneurship development of rural youths and woman SHG members
3	Raipur	Tilda	Biladi	Munga Patti powder	Entrepreneurship development of rural youths and woman SHG members	Entrepreneurship development of rural youths and woman SHG members
4	Raipur	Abhanpur	Nawagaon	Tomato and ridge gourd	Less water availability	Water management using micro irrigation

Priority / Thrust areas

S. No.	Particulars
1	Diversification of existing production systems for better profitability.
2	Farm mechanization through improved agricultural implements.
3	Introduction of community based quality seed and planting material.
4	Income augmentation of resource poor farm women through small scale backyard enterprise.
5	Reduction of cost of cultivation of existing major crop enterprises through better management practice.
6	To enhance crop productivity and cropping intensity under rainfed and irrigated conditions.
7	Improve riverbed cultivation through community based.

8	Entrepreneurship development of rural youths and woman SHG members.
9	Water management using micro irrigation.
10	Promotion of scientific gum tapping technology
11	Promotion of cultivation of medicinal & aromatic plants

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT 1		FLD and CFLD 2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
17	76	13	99

Training 3		Extension Activities 4	
Number of Courses	Number of Participants	Number of activities	Number of participants
250	5500	35	mass

Seed Production (Qtl.)	Planting material (Nos.)
-	-

B. Abstract of interventions to be undertaken

[illegible]

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

[illegible]

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise		
Title of on farm trial		
Problem diagnosed		
Farmers' Practices		
Details of technologies selected for assessment	T ₁	
	T ₂	
	T ₃	Rows can be added if necessary
Source of technology		
Plot size		
No. of farmers		
Total cost		
Critical input		
Performance indicators: (i) Growth and Yield attributes (ii) Technical- yield (q/ ha) (iii) Economic (iv) Social – Employment generation		

OFT -2

1	Enterprise	
2	Title of on-farm trial	

3	Problem diagnosed	
4	Farming situation	
5	Production system and thematic area	
6	Farmers' practices	
7	Details of technologies selected for assessment/refinement Treatments	T ₁ T ₂ (Rows can be added if necessary)
8	Source of technology	
9	No. of animals	
10	No. of farmers	
11	Critical input	
12	Cost of input	
13	Total cost	
14	Performance indicators Observation to be recorded BMS Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT:

Detailed Information about OFT: OFT 1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agricultural Engineering
Title of on-farm trial:	Assessment of drone technology for the paddy seeding
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	More seed is required in manual broadcasting and uneven distribution
Thematic area:	Precision farming
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	Assessment
T1 – Farmers Practice-	Manual broadcasting
T2 –Recommended Practice-	Precision application of paddy seeds
T3- Recommended Practice-	
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	Deptt. of Agronomy, IGKV, Raipur
Characteristics of technology:	Drone seeding
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	

Feedback	

OFT 2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agricultural Engineering
Title of on-farm trial:	Assessment of groundnut stripper in the cultivation practice of groundnut
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Groundnut stripping by hand takes more time and cost
Thematic area:	Farm machinery
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement: Refinement	
T1 – Farmers Practice-	Manual stripping
T2 –Recommended Practice-	Use of groundnut stripper
T3- Recommended Practice-	
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	Deptt. of FMPE, IGKV, Raipur
Characteristics of technology:	Farm machinery
Name of Crop/Enterprises:	Groundnut
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 3

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agricultural Engineering
Title of on-farm trial:	Refinement of different packaging materials for safe storage of paddy seeds
Year/Season:	2024/Kharif-Rabi
Farming situation:	NA
Problem diagnosis:	Increase in moisture contend, reduction in germination percentage and problem of insect and pest infestation.
Thematic area:	Post Harvest Technology
No of trials:	04

No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement: Refinement	
T1 – Farmers Practice-	Storage of seeds in used fertilizer plastic bags
T2 –Recommended Practice-	Storage of seeds in jute bags for selling in society
T3- Recommended Practice-	Use of recyclable LLDPE plastic bags
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	Pt. Jawaharlal Nehru College of Agriculture and Research Institute,Karaikal –Puducherry
Characteristics of technology:	PHT
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT 4

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of direct seeded rice sown with inclined planter / Seed drill (with lower seed rate and weed management)
Year/Season:	2024/Kharif
Farming situation:	Midland/Rainfed
Problem diagnosis:	High Seed rate with poor weed management practices
Thematic area:	Precision farming
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment :	
T1 – Farmers Practice-	Seed rate ; 100-120 kg/ha (Broadcasting) Weed Management : <i>Bueshening</i> operation or One hand Weeding
T2 –Recommended Practice-	Seed Rate : 40 kg/ha sowing with inclined plate planter or seed drill, Weed Management : Pre emergence application of Oxadiagryl 70 g/ha followed by Bispyribac Sodium @ 20 g/ha at 25 DAS
T3- Recommended Practice-	Nil
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	AICRP Weed Management and FIM, IGKV, Raipur
Characteristics of technology:	Precision farming
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA
Feedback	NA

OFT 5

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of Sowing technique of Finger millet sown with inclined planter/ Seed drill
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low Productivity of Finger millet -broadcasting sowing techniques & improper management
Thematic area:	Farm Mechanization
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for Refinement :	
T1 – Farmers Practice-	Seed rate ; 20 kg/ha (Broadcasting
T2 –Recommended Practice-	Seed Rate : 10 kg/ha sowing with inclined plate planter or seed drill with scientific management package of practices
T3- Recommended Practice-	Nil
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	SGCARS, Jagdalpur, IGKV, Raipur
Characteristics of technology:	Number of tillers, yield and Economics
Name of Crop/Enterprises:	finger millet
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA
Feedback	NA

OFT 6

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of System of Chickpea Intensification (SCI) with Mechanised sowing method
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	High Seed rate with poor management practices
Thematic area:	Precision Farming
No of trials:	04
No. of farmers involved	04

Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for Refinement :	
T1 – Farmers Practice-	Seed rate ; 75-80 kg/ha (Broadcasting) with one nipping and rough hand weeding
T2 –Recommended Practice-	System of Chickpea Intensification : Sowing With inclined plate planter Seed Rate : 50 kg seed/ha with wider spacing of 50x20 cm, Two seeds/hill, Nipping at 30 DAS, Two mechanical Weeding (20 and 40 DAS), Two Irrigation (35 and 55-60 DAS)
T3- Recommended Practice-	Nil
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	IGKV, Raipur
Characteristics of technology:	Germination (%), Number of pods plant ⁻¹ , Number of tillers, yield and Economics
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA
Feedback	NA

OFT 7

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Evaluation of direct seeded Finger millet crop in Rabi Season for replacement of Rabi Paddy
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Rabi Paddy is not economical as Rabi rice is not covered under MSP
Thematic area:	Agriculture Mechanization
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Growing of rice crop
T2 –Recommended Practice-	Replacment of Rabi Paddy crop with direct seeded fingermillet
T3- Recommended Practice-	Nil
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	SGCARS, Jagdalpur, IGKV, Raipur
Characteristics of technology:	Number of tillers, yield and Economics
Name of Crop/Enterprises:	Finger millet
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA

Feedback	NA

OFT 8

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Azoxostrobin + Tricyclazole against Blast disease of Paddy
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Blast affects potential productivity of Paddy
Thematic area:	Plant Disease Management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spray of Carbonendazim + Mancozeb @ 0.2% (500 g/ha)
T2 –Recommended Practice-	Spray of Azoxostrobin + Tricyclazole @ 0.2 % (500 ml/ha)
T3- Recommended Practice-	Nil
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	Dept. Plant Pathology, IGKV, Raipur
Characteristics of technology:	Yield (qtl/ha), Disease Incidence (%), B:C Ratio
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA
Feedback	NA

OFT 9

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Hexaconazole against Sheath Blight disease of Paddy
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Sheath Blight affects potential productivity of Paddy
Thematic area:	Plant Disease Management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spray of Carbonendazim + Mancozeb @ 0.2% (500 g/ha)
T2 –Recommended Practice-	Spray of Hexaconazole @ 0.1 % (500 ml/ha)
T3- Recommended Practice-	Nil
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	Dept. Plant Pathology, IGKV, Raipur
Characteristics of technology:	Yield (qtl/ha), Disease Incidence (%), B:C Ratio
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA
Feedback	NA

OFT 10

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of Bacterial wilt Tomato by using <i>Pseudomons</i> Liquid Biopesticide
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Major problem of Tomato bacterial wilt in Raipur district
Thematic area:	Plant Disease Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of biopesticide
T2 –Recommended Practice-	Seed treatment with Biopesticide- <i>Pseudomonas sp.</i> @ 5ml/lit water and Spray of 10 ml/lit water (3 lit./ ha)
T3- Recommended Practice-	Nil
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	Dept. Plant Pathology, IGKV, Raipur
Characteristics of technology:	No. Infected fruit (%), Yield (qtl/ha), B:C Ratio
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA
Feedback	NA

OFT 11

Name of Discipline (like Agronomy/Horticulture/	Plant Protection

Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of ferterra at tillering stage against yellow stem borer in rice
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Major pest of rice in C.G. plain (YSB)
Thematic area:	Pest Management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of insecticide at tillering stage
T2 –Recommended Practice-	Application of ferterra (chlorantraniliprole) 0.4% w/w GR/5kg/acre
T3- Recommended Practice-	Nil
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	Dept. Entomology, IGKV, Raipur
Characteristics of technology:	% Pest infestation , Yield ,B:C Ratio
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA
Feedback	NA

OFT 12

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection
Title of on-farm trial:	Assessment of pest management by spray of Ha NPV 1.5×10^{12} POBs/ ha. against tomato fruit borer (<i>Helicoverpa armigera</i>)
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Heavy infestation by tomato fruit borer
Thematic area:	Pest Management
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of biopesticide
T2 –Recommended Practice-	Use of Biopesticide- Ha NPV 1.5×10^{12} POBs/ ha against tomato fruit borer (<i>Helicoverpa armigera</i>)
T3- Recommended Practice-	Nil
Date of sowing:	NA
Date of harvesting:	NA

Source of technology:	Dept. Entomology, IGKV, Raipur
Characteristics of technology:	No. Infected fruit, Yield , B:C Ratio
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA
Feedback	NA

OFT 13

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of improved variety of Kharif Onion
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	No cultivation practice of Onion in Kharif season
Thematic area:	Varietal evaluation / replacement
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Improved variety Bhima Super with recommended package of practices. Spacing 15x10 cm, (RXP)
T2 –Recommended Practice-	Improved variety Bhima Dark Red with recommended package of practices. Spacing 15x10 cm, (RXP)
T3- Recommended Practice-	Nil
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	DOGR, Nashik - Pune
Characteristics of technology:	Bulb size , yield qts/ha. B:C Ratio
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA
Feedback	NA

OFT 14

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Assessment of Improved variety of Reddish-var. Kanshi Arda
Year/Season:	2024/Rabi
Farming situation:	Irrigated
Problem diagnosis:	No cultivation practice of Onion in Kharif season
Thematic area:	Varietal evaluation / replacement

No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No cultivation practice of Reddish-var. Kanshi Arda
T2 –Recommended Practice-	Local variety of Reddish with recommended PoP, Spacing 30x 15 cm
T3- Recommended Practice-	Improved variety of Reddish with recommended PoP, spacing -60x30 cm, (RXP) and bush type
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	DOGR, Nashik - Pune
Characteristics of technology:	Tuber diameter, length per plant, Yield qts/ ha. and B:C ratio
Name of Crop/Enterprises:	Reddish
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA
Feedback	NA

OFT 15

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Fisheries
Title of on-farm trial:	Assessment of vitamin mineral mixture along with conventional feed for fish production
Year/Season:	2024/Round the year
Farming situation:	Pond culture
Problem diagnosis:	Low fish yield due to non-use of vitamin mineral mixture
Thematic area:	Fish Production & Management Technology
No of trials:	09
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of bran- oil cake powder only and no use of multi vitamin and mineral mixture
T2 –Recommended Practice-	Feeding conventional feed (rice bran, groundnut oilcake, 1:1) with vitamin-mineral premix (1-2%)
T3- Recommended Practice-	Nil
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	CIFA
Characteristics of technology:	Yield (q/ha), Survival rate (%) & B:C ratio
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA

Feedback	NA

OFT 16

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Fisheries
Title of on-farm trial:	Assessment on survival rate and growth of Tilapia in fresh water Biofloc Technology
Year/Season:	2024/Round the year
Farming situation:	Tank culture
Problem diagnosis:	Fish culture requires larger water bodies & manpower
Thematic area:	Fish Production & Management Technology
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Fish production in earthen ponds
T2 –Recommended Practice-	Standard practice & packages of fresh water Biofloc technology
T3- Recommended Practice-	Nil
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	CIBA
Characteristics of technology:	Yield (q/ha, q/tank), Survival rate (%) & B:C ratio
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA
Feedback	NA

OFT 17

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Fisheries
Title of on-farm trial:	Assessment on effect of used Polypropylene (PP) Sheets for natural breeding of Gold fish
Year/Season:	2024/Round the year
Farming situation:	Ornamental fish production
Problem diagnosis:	Low survival rate during natural breeding by using of submerged and floating weeds
Thematic area:	Fish Production & Management Technology
No of trials:	04
No. of farmers involved	02
Type of OFT (Assessment/ Refinement):	Assessment

Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Natural breeding by using of submerged and floating weeds
T2 –Recommended Practice-	Natural breeding with use of polythene sheets
T3- Recommended Practice-	Nil
Date of sowing:	NA
Date of harvesting:	NA
Source of technology:	IGKV
Characteristics of technology:	Survival rate (%) and B:C ratio
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	NA
Recommendations for Deptt. Personnel	NA
Feedback	NA

Information about Extension OFT: **NA**

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

Results / findings

Performance indicators/ parameters	Unit/ details

Information about Home Science OFT: **NA**

Title of on-farm trial:	
Year/Season:	
Problem diagnosis:	
Thematic area: (Focus area in DFI and nutri smart initiatives)	
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 Dept. Personnel	
Feedback	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Paddy	Varietal Replacement	Demonstration of HYV of Aromatic Paddy "Chhattisgarh Devbhog"	Seed and Herbicide	Kharif - 2024	4	10	No. of effective tillers, Yield and Economics
2	Linseed	Crop Production	Demonstration of High yielding variety of Linseed "RLC-164"	Seed, Herbicide	Rabi - 2024	4	10	No of capsule/ Plant, Yield and Economics
3	Paddy	Pest Management	Demonstration for Management of Brown Plant Hopper of Rice by <i>Metarhizium anisopliae</i>	<i>Metarhizium Anisopliae</i> – Biopesticide	Kharif - 2024	5	5	Yield (qtl/ha), Disease Incidence (%) and B:C ratio
4	Mushroom	Income Generation / Women Empowerment	Mushroom Production and value addition technology to women SHGs	Mushroom spawn, spices, oil etc, electricity	Round the Year- 2024	2 unit	20	Yield (qtl/ha) and B:C ratio
5	Paddy	Pest Management	Demonstration for Management of Rice Stem Borer of Rice by <i>Beuveria Bassiana</i>	<i>Beuveria Bassiana</i> – Biopesticide	Kharif - 2024	5	8	Yield (qtl/ha), Disease Incidence (%) and B:C ratio
6	Chickpea	Pest Management	Demonstration for management of pod borer of chickpae	Seed , spraying material Ha Npv.	Irrigated, Rabi- 2024	4	4	Pod borer infestation, yield qts/ha. B:C Ratio
7	Tomato	Nutrient Management	Demonstration of foliar application of Boron in tomato variety . Kanshi Aman	Seed , micronutrients and fungicide	Irrigated, Rabi- 2024	0.20	4	No of fruit creaking per plant , yield qts/ha. B:C Ratio
8	Onion	Weed Management	FLD on Chemical weed management of onion var. Bhima Kiran	Seed , herbicide & biofertilizer	Irrigated, Rabi- 2024	0.40	4	Weed density sqm , Yield qts/ ha. and B:C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants

1	Field days			
2	Farmers Training			
3	Media coverage			
4	Training for extension functionaries			

Details of FLD on Enterprises
Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Seed drill	Paddy	Kharif 2024	5	4.8	Seed, seed drill for sowing	Yield		
Seed drill	Linseed	Rabi 2024	5	4.8	Seed, seed drill for sowing	Yield		
Seed drill	Chickpea	Rabi 2024	5	4.8	Seed, seed drill for sowing	Yield		

**Field efficiency, labour saving etc.*

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

**Milk production, meat production, egg production, reduction in disease incidence etc.*

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
Demonstration of fish production through Composite fish culture system	Fingerlings of Indian Major Carps	04	03	Fingerlings of Indian Major Carps	Yield (q/ha), Survival rate (%) & B:C ratio	Pre stocking management and stocking of fingerlings in proper ratio (40:30:30), feeding management and disease management	NA
Demonstration on production of fishes through application of lime in community ponds	fishes	04	04	Use of Lime	Yield (q/ha), Survival rate (%) & B:C ratio	Dose of lime @ 250-300 kg/ha, application in phased manner	NA

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1								
2								

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days			
2	Farmers Training			
3	Media coverage			
4	Training for extension functionaries			

Training (Including the sponsored and FLD training programmes):

A) ON Campus

[illegible]

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
issues											
Total											
XI Agro-forestry											
Total											
XII Others (Pl. Specify)											
Grand Total											
(B) RURAL YOUTH											
Mushroom Production											
Bee-keeping											
Seed production											
Planting material production											
Vermi-culture											
Value addition											
Sheep and goat rearing											
Para extension workers											
TOTAL											
(C) Extension Personnel											
Productivity enhancement in field crops											
Integrated Pest Management											
Integrated Nutrient management											
Protected cultivation technology											
Group Dynamics and farmers organization											
Capacity building for ICT application											
Livestock feed and fodder production											
Production and use of organic inputs											
Gender mainstreaming through SHGs											
Any other (Pl. Specify)											
TOTAL											

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants		
			Others	SC/ST	Grand

Management of SHGs									
Mobilization of social capital									
Entrepreneurial development of farmers/youths									
WTO and IPR issues									
XI Agro-forestry									
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs									
Sheep and goat rearing									
TOTAL									
(C) Extension Personnel									
TOTAL									

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

[illegible]

2. Off Campus

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
OILSEEDS			
PULSES			
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
3				

BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1			
2			
3			
4			
5			
6			
7			
8			

1. No. of farm families selected per village :

2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1			
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage

Action plan for Flagship programmes implemented at KVK
(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production

ANNUAL ACTION PLAN 2024

KVK Rajnandgaon

Year of sanction: 2007

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Er. R.K. Swarnakar	-	9424156324	rkswarnakar@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Er. R.K. Swarnakar	Soil and Water Conservation Engineering	M.Sc.	37400 - 67000	21/02/2019	24/01/2023	9424156324	rkswarnakar@rediffmail.com	
2	Subject Matter Specialist	Mrs. Gunjan Jha	Horticulture	M.Sc	15600 - 39100	6/9/2012	19/08/2016	9329029960	gunsoon183@gmail.com	
3	Subject Matter Specialist	Dr. Nutan Ramteke	Livestock Production Management	M.V.Sc.	15600 - 39100	6/9/2012	13/04/2017	9827969987	dr.tanu68@gmail.com	
4	Subject Matter Specialist	Smt. Anjali Ghritlahare	Soil Science & Agricultural Chemistry	M.Sc.(Agriculture)	15600 - 39100	1/10/2012	26/09/2018	8109300165	anjalignhritlahare@gmail.com	
5	Subject Matter Specialist	Er. Atul R Dange	Farm Machinery and Power Engg.	Ph.D	15600 - 39100	4/10/2012	02/01/2019	9669153436	dangeatul@gmail.com	
6	Subject Matter Specialist	Mr. Manish Kumar Singh	Agronomy	M.Sc	15600 - 39100	17/09/2014	05/04/2018	9179881937	manishsingh.singh029@gmail.com	
7	Subject Matter Specialist	Dr. Yogendra Shriwas	SMS-6	Agril. Extension	15600 - 39100	13/09/2023	13/09/2023	999347520	yogendrashrws@gmail.com	

8	Programme Assistant	Shri Jitendra Kumar Meshram	Plant Pathology	M.Sc	9300-34800	14/10/2014	04/10/2018	9425535196	jeetumeshram104@gmail.com	
9	Computer Programmer / Programme Assistant	Mr. Aashish Gaurav Shukla	Soil Science & Agricultural Chemistry	M.Sc.	9300-34800	24/09/2012	24/09/2012	9713479175	gauravaashish60@gmail.com	
10	Farm Manager	Mr. Saurabh Mishra	Computer Science	M.Sc.(C S)	9300-34800	10/9/2012	10/09/2012	9479365220	saurabh.mishra8983@gmail.com	
11	Assistant	----- Vacant---	-	-	5200-20200		-			
12	Jr. Stenographer / Comp. Operator	Smt. Manjulata Meravi	-	PG	5200-20200	19/02/2009	27/02/2018	9039940094	-	
13	Driver	Shri Kumar Lodhi	Jeep	12th	5200-20200	16/04/2004	16/04/2008	7489746204	-	
14	Driver	Shri Ravindra Yadav	Tractor	12th	5200-20200	1/4/2013	01/04/2013	9754310953	-	
15	Supporting staff	Shri Krishna Bahadur Thapa	Peon	5th	4750-7440	16/09/2008	16/09/2008	8818848144	-	
16	Supporting staff	----- Vacant--- --	-	-	-		-	-	-	-

1.3 Total land with KVK (in ha): 10

S. No.	Item	Area (ha)
1	Under Buildings	0.40
2	Under Demonstration Units	0.30
3	Under Crops	6.00
4	Orchard/Agro-forestry	0.30
5	Others (specify)	1.40
Total		10.00

1.4 Infrastructural Development:
A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	-	-	-	-	-	-	-
2	Farmers Hostel	-	-	-	-	-	-	-
3	Staff Quarters (6)	-	-	-	-	-	-	-
4	Demonstration Units (2)	-	-	-	-	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	-	-	-	-
Motor Cycle 2	-	-	-	-
Bolero(Jeep)	-	-	-	-
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
-	-	-	-

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	10.07.2024
2	

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Badi situation
2	AES – 2	Mid land
3	AES – 3	Upland
4		
5		
6		

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	Chhattisgarh Plain	Small covered area for cultivation
2	Chhattisgarh Plain	Plain area of Rajnandgaon

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
Availability of all the natural resources	lack of awareness and technical knowledge	- Crop diversification - Integrated Farming System - Agro forestry - Production of Live stock	- Water and soil conservation - Natural resource management - Farm machinery and implements - Communication gap and skill development

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	802.252
Forest	292.301
Waste Land	34.427
Other than cultivated area	68.346
Cultivable waste and alkaline land	-
Pastures	-
Bushes	-
Current Fallow	-
Other Fallow	-
Agricultural Land	-
Area Sown	-
Kharif	-
Rabi	-
Zaid	-
Cropping Intensity	-

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	50200
2	Well	6204
3	Tube well	47617
4	Ponds	3041
5	Others	1854

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Ultisol- Red Lateritic Soil	lateritic soil is formed in areas of tropical and sub- tropical climate with alternate wet and dry seasons. This type of soil is found over the areas occupied by sandstones, limestones & granite.	-
2	Alluvial Soil	The alluvium is restricted to the flood plains & river banks of of Seonath and its tributaries mainly along Ammer River in Khairagarh block. It consists of clay, sand and gravel and is very fertile and its depth varies from 2 to 10 m	-
3	Vertisol- Black Soil	The color varies from light to dark grey and black. It is heavy soil with clay content of 40 to 50 percent. The organic matter content is usually high. The permeability is generally low and therefore, this type of soil is sticky in nature and depth of soil is generally between 0.3 to 2.5 m. This soil is locally known as Kanhar.	-
4	Affisol- Red Loamy & Sandy soil	The soil is derived from variety of rocks such as mica schist, quartzite, granites and granite gneisses, The colour of the soil ranges from yellowish red to brown. The texture varies from clay loam at places to loam at depth. Its organic matter content, permeability and moisture retention capacity are moderate. The depth of soil cover varies from 0.5 to 2.5 m.	-

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	299.115	-	-
2	Pigeon pea	16.788	-	-
3	Green gram	1.434	-	-
4	Black gram	4.975	-	-
5	Wheat	15.505	-	-
6	Chickpea	73.200	-	-
7	Mustard	3.500	-	-

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 23	0	18.0	8.64
Feb, 23	0	28.0	11
Mar, 23	0	44.5	20.7
Apr, 23	0	45.7	26.5
May, 32	4.8	40.0	31
Jun, 23	74.8	38.0	24.95
July, 2023	290	30.0	24.0
Aug., 2023	371.1	32.0	25.0
Sept., 2023	145.5	31.0	25.0
Oct. 2023	12.7	32.0	24.0
Nov. 2023	2.5	31.0	12.0
Dec. 2023	1.0	30.0	13.0

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	457783	56.74MT. (Milk)	 kg
Buffalo	111563	5644.79 MT. (Milk)	 kg
Sheep			
<i>Crossbred/ Indigenous</i>	11025	47.0 MT wool	 kg
Goats	130692	461.25 MT	 kg

Pigs Crossbred/ Indigenous	16455	33.0	---
Rabbits			
Poultry			
Hens	612381	275156 Lakh eggs	 eggs/ bird/yr
Turkey and others	3280		
Category	Area	Production	Productivity
Fish	1533.687 (ha)	27001.890 Q/ month	 Q/ ha.

Details of Operational area / Villages (2024)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	-	-	-	-	-	-
2						
3						
4						
5						

Priority / Thrust areas

S. No.	Particulars
1.	Awareness generation for NADEP, Vermi-Compost and Green manures.
2.	Farm Mechanization and Introduction of improved farm implements.
3	Improved production technology for Rice and Soybean crop under rain fed and irrigated conditions
4	Increasing milk ,meat and egg production productivity through improved breed (cattle,poultry,goat),balanced diet and proper health management
5	IPM, IDM, INM and IWM for major crops
6	Soil test based fertilizer application, soil health card with village fertility map

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
11	66	21	456

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
67	3070	355	195472

Seed Production (Qtl.)	Planting material (Nos.)
1000	242000

B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal evaluation	Chickpea	Low yield due to high infestation of Fusarium wilt & Collar rot	Assessment of varietal evaluation of Chickpea	-	Production technology in Chickpea crop	Production technology in Chickpea crop	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Seed
2	Crop production	Linseed	Not proper utilization of soil moisture for Rabi crop	Assessment of improved Utera technology in linseed crop	-	Production technology in Linseed crop	Production technology in Linseed crop	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Seed
3	Varietal evaluation	Paddy	low yield due to high incidence of insect (stem borer) and disease (blast & blight)	Assessment of varietal evaluation of Rice CR-Dhan - 314	-	Production technology in paddy crop	Production technology in paddy crop	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Seed
4	varietal evaluation	Cotton	Un-availability of suitable variety	Assessment of varietal evaluation & full package of practices of cotton	-	Production technology in cotton	Production technology in cotton	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Seed
5	Crop Production	Grafted Brinjal	Commonly all farmers suffering fusarium and bacterial wilt in brinjal, therefore using wild species of rotostock (Solanum torvum and Solanum sisymbriifolium) showed resistance against bacterial wilt. Is a one of the solution for cure these problems.	Method of grafting and evaluation of grafted brinjal for disease control.	-	Production technology in vegetable crop	Production technology in vegetable crop	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Grafted plants
6	Varietal evaluation	Cluster Bean	Commonly all farmers	Varietal evaluation of	-	Production	Production technology in	Awareness programme,	Cluster bean

	on	(Pusa Navbahar)	grown local cultivars but due to powdery mildew and leaf spot they got low yield.	cluster bean (Pusa Navbahar) on rice bund condition during kharif.		technology in cluster crop	cluster crop	Diagnostic visit, Scientist visit at Farmers field	(Pusa Navbahar) Non branching type plant
7	Natural Farming	Finger Millet	Poor fertilizers use efficiency due to poor soil quality & high cost of cultivation	Assessment of full package practices of natural farming in Finger millet	-	Nutrient management - jivamrit - ghanjivamrit-beejamrit	Nutrient management - jivamrit - ghanjivamrit-beejamrit	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Seed, Plastic drum, Besan, Jaggery
8	Natural Farming	Lathyrus	Poor fertilizers use efficiency due to poor soil quality & high cost of cultivation	Assessment of full package of practices of natural farming in Lathyrus	-	Package of practices of natural farming in Lathyrus	Package of practices of natural farming in Lathyrus	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Seed, Plastic drum, Besan, Jaggery
9	Agriculture Engineering	Chickpea	Due to higher moisture content in soil causes incident of collar rot & wilt disease	Assessment of Broad bed method of chickpea sowing	-	Training on Farm Machinery	Training on Farm Machinery	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Seed
10	Precision farming	Straw	Rice straw burning after harvesting crop causes air pollution	Assessment of tractor drawn round straw baler	-	Post harvest management	Post harvest management	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Tractor charges
11	Agriculture Engineering	Mini Dal Mill	Poor quality & losses in traditional method of Dal Making	Assessment of Mini Dal Mill.	-	Training on processing of Mini Dal Mill	Training on processing of Mini Dal Mill	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	-

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
IWM	-	-	-	-	-	-	-	-	-	0
Varietal evaluation	1	-	1	1	1	-	-	-	-	4
Crop Production	-	1	-	-	1	-	-	-	-	2
IPM	-	-	-	-	-	-	-	-	-	-
IDM	-	-	-	-	-	-	-	-	-	-
Organic Farming	-	-	-	-	-	-	-	-	-	-
Natural Farming	1	-	1	-	-	-	-	-	-	2

Precision farming	-	-	1	-	-	-	-	-	-	1
INM	-	-	-	-	-	-	-	-	-	-
Post harvest technology	-	-	-	-	-	-	-	-	-	-
Agriculture Engineering	1	-	2	-	-	-	-	-	-	3
TOTAL	2	1	5	1	2	0	0	0	0	11

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
-	-	-	-	-	-	-	-	-
TOTAL								

Details of On Farm Trial (OFT)

OFT-1 (Agronomy)

Crop / Enterprise	Chickpea
Title of on farm trial	Assessment of varietal evaluation of Chickpea
Problem diagnosed	Low yield due to grow of less productivity variety
Farmers' Practices	Use of variety ZAKI-9218
Details of technologies selectedfor assessment	T ₁ Use of variety ZAKI-9218
	T ₂ Use of improved variety RVG-204
Source of technology	RVSKVV, 2016
Plot size	0.40
No. of farmers	7
Total cost	18500
Critical input	Seed
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of pods/plant, plant population/sqm., yield q/ha.

OFT-2 (Agronomy)

Crop / Enterprise	Linseed
Title of on farm trial	Assessment of improved Utera technology in linseed crop
Problem diagnosed	Not proper utilization of soil moisture for Rabi crop
Farmers' Practices	Broadcast of Linseed seed before harvesting of rice crop
Details of technologies selectedfor assessment	T ₁ Broadcast of Linseed seed before harvesting of rice crop
	T ₂ 1. Use of seed rate 20Kg/ha, 2. Seed treatment with Bio-fertilizer (<i>Azotobactor</i> , PSB, KSB, <i>Trichoderma</i>) & Use of foliar spray of N:P:K (19 : 19 : 19) at 30 DAS. 3. Insect control <i>Imidachlorpid</i> 100ml @ 500 liter of water.
	T ₃
	T ₄
Source of technology	IGKV,Raipur
Plot size	0.40
No. of farmers	7
Total cost	19000
Critical input	Seed
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Yield (q/ha), B:C ratio, no. of Capsule /plant, plant population / sq m

OFT-3 (Agronomy)

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of varietal evaluation of Rice CR-Dhan - 314	
Problem diagnosed	low yield due to high incidence of insect (stem borer) and disease (blast & blight)	
Farmers' Practices	Use of local variety (MTU1010)	
Details of technologies selected for assessment	T ₁	Use of local variety (MTU1010)
	T ₂	Use of variety CR -Dhan - 314 (Highly resistant to false smut, moderately susceptible to leaf blast and neck blast. Similarly, it is resistant to leaf folder and moderately resistant to stem borer (Dead heart), 6.63 t/ha)
	T ₃	-
Source of technology	ICAR - National Rice Research Institute, Cuttack, Odisha	
Plot size	0.40	
No. of farmers	7	
Total cost	14000	
Critical input	Seed	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	No. of tillers / plant, yield (q/ha), No. of dead heart/ sq m., B:C ratio	

OFT-4 (Agronomy)

Crop / Enterprise	Cotton	
Title of on farm trial	Assessment of varietal evaluation & full package of practices of cotton	
Problem diagnosed	Un-availability of suitable variety	
Farmers' Practices	Use of old variety	
Details of technologies selected for assessment	T ₁	Use of old variety
	T ₂	Use of improved variety Phule Asmita (RHH-917) Duration- 160-170 days, 25.0-30.0 Average yield (q/ha) Characters- (Semi-spreading, Resistant to GM, BLB and ALB. Moderately resistant to sucking pests and bollworms, Ginning percent 34.1, Fibre length (mm) 29.7, Bundle Strength (g/tex) 21.9g/tex, Micronaire value (ug/inch) 4, Spinning potential (Counts) 30-40S) 2. Full package of practices of cotton)
Source of technology	Mahatma Phule Krishi Vidyapeeth, Rahuri	
Plot size	0.40	
No. of farmers	7	
Total cost	18500	
Critical input	Seed	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	yield (q/ha), B:C ratio, no. of boll / plant	

OFT-5 (Horticulture)

Crop / Enterprise	Grafted Brinjal	
Title of on farm trial	Method of grafting and evaluation of grafted brinjal for disease control.	
Problem diagnosed	Commonly all farmers suffering fusarium and bacterial wilt in brinjal, therefore using wild species of rootstock (Solanum torvum and Solanum sisymbriifolium) showed resistance against bacterial wilt. Is a one of the solution for cure these problems.	
Farmers' Practices	Hybrid or OP brinjal varieties	
Details of technologies selected for assessment	T ₁	Hybrid or OP brinjal varieties
	T ₂	Grafted brinjal (wilt resistant)
Source of technology	ICAR-IIVR, Varanasi, Uttar Pradesh,	
Plot size	100 plants	
No. of farmers	7	
Total cost	18000	
Critical input	Grafted plants	
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	Disease incidence percentage, per plant yield, total yield /season ton/ha.	

OFT-6 (Horticulture)

Crop / Enterprise	Cluster Bean (Pusa Navbahar)	
Title of on farm trial	Varietal evaluation of cluster bean (Pusa Navbahar) on rice bund condition during kharif.	
Problem diagnosed	Commonly all farmers grown local cultivars but due to powdery mildew and leaf spot they got low yield.	
Farmers' Practices	Local varieties	
Details of technologies selected for assessment	T ₁	Local varieties
	T ₂	Cluster bean (Pusa Navbahar) recommended practice
Source of technology	ICAR New Delhi	
Plot size	½ kg	
No. of farmers	7	
Total cost	10000	
Critical input	Cluster bean (Pusa Navbahar) Non branching type plant	
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	Disease incidence percentage, per plant yield, total yield /season ton/ha.	

OFT-7 (Soil Science)

Crop / Enterprise	Finger Millet	
Title of on farm trial	Assessment of full package practices of natural farming in Finger millet	
Problem diagnosed	Poor fertilizers use efficiency due to poor soil quality & high cost of cultivation	
Farmers' Practices	Broadcast of Finger millet & imbalance use of fertilizer	
Details of technologies selected for assessment	T1	Broadcast of Finger millet & imbalance use of fertilizer
	T2	1. Seed treatment with Bijamreet 2. Ghanjeevamrit @250kg/ha. at sowing time 3. Foliar spray of Jeevamrit (5 times @5,10,15,20 & 25 li/100 li water at 25, 40, 55, 75, 90 DAS), 4. Neemastra @2.5%, Mulching
Source of technology	Gurukul Institute Kurukshetra (Haryana)	
Plot size	0.40	
No. of farmers	7	
Total cost	10500	
Critical input	Seed, Plastic drum, Besan, Jaggery	
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	Soil test value Before sowing & after harvesting, No. of tillers/plan, Yield q/h, BC ration	

OFT-8 (Soil Science)

Crop / Enterprise	Lathyrus	
Title of on farm trial	Assessment of full package of practices of natural farming in Lathyrus	
Problem diagnosed	Poor fertilizers use efficiency due to poor soil quality & high cost of cultivation	
Farmers' Practices	Broadcast of Lathyrus & imbalance use of fertilizer	
Details of technologies selected for assessment	T1	Broadcast of Lathyrus & imbalance use of fertilizer
	T2	1. Seed treatment with Bijamreet 2. Ghanjeevamrit @250kg/ha. at sowing time 3. Foliar spray of Jeevamrit (5 times @5,10,15,20 & 25 li/100 li water at 25, 40, 55, 75, 90 DAS), 4. Neemastra @2.5%, Mulching
Source of technology	Gurukul Institute Kurukshetra (Haryana)	
Plot size	0.40	
No. of farmers	7	
Total cost	14000	
Critical input	Seed, Plastic drum, Besan, Jaggery	
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	Soil test value Before sowing & after harvesting, No. of tillers/plan, Yield q/h, BC ration	

OFT-9 (Agriculture Engineering)

Crop / Enterprise	Broad bed method	
Title of on farm trial	Assessment of Broad bed method of chickpea sowing	
Problem diagnosed	Due to higher moisture content in soil causes incident of collar rot & wilt disease	
Farmers' Practices	Line sowing	
Details of technologies selectedfor assessment	T1	Line sowing
	T2	Broad bed method of chickpea sowing
	T3	
Source of technology	PDKV, Akola 2018, IGKV 2016	
Plot size	0.40	
No. of farmers	7	
Total cost	15000	
Critical input	Seed	
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation	Field capacity ha/h, plant population/sqm, pods/plants	

OFT-10 (Agriculture Engineering)

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of tractor drawn round straw baler	
Problem diagnosed	Rice straw burning after harvesting crop causes air pollution	
Farmers' Practices	Manually collected and store for animal consumption or straw burning	
Details of technologies selectedfor assessment	T1	Manually collected and store for animal consumption or straw burning
	T2	Use of tractor operated round straw baler
	T3	
Source of technology	CIAE, Bhopal, IGKV, Raipur	
Plot size	0.40	
No. of farmers	2	
Total cost	5000	
Critical input	Tractor charges	
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation	Field capacity, ha/h, No. of bale per acres	

OFT-11 (Agriculture Engineering)

Crop / Enterprise	Mini Dal Mill	
Title of on farm trial	Assessment of Mini Dal Mill.	
Problem diagnosed	Poor quality & losses in traditional method of Dal Making	
Farmers' Practices	Traditional Method for Milling Dal	
Details of technologies selectedfor assessment	T1	Traditional Method for Milling Dal
	T2	Demonstration & performance of Mini Dal Mill for Making Dal
	T3	-
Source of technology	PDKV, Akola 2010, IIPR Kanpur 2015	
Plot size	-	
No. of farmers	1	
Total cost	2000	
Critical input	-	
Performance indicators: (xxxi) Technical- yield (q/ ha) (xxxii) Economic (xxxiii) Social – Employment generation	Dal recovery, Kg/hr , Broken losses %	

OFT -2

1	Enterprise	-
2	Title of on-farm trial	-
3	Problem diagnosed	-
4	Farming situation	-
5	Production system and thematic area	-
6	Farmers' practices	-
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : : T ₂ :
8	Source of technology	-
9	No. of animals	-
10	No. of farmers	-
11	Critical input	-
12	Cost of input	-
13	Total cost	-
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	-

Detailed Information about OFT: 1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of varietal evaluation of Chickpea
Year/Season:	2024-25/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to grow of less productivity variety
Thematic area:	Varietal Evaluation
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of variety ZAKI-9218
T2 –Recommended Practice-	Use of improved variety RVG-204
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV, 2016
Characteristics of technology:	-
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 1

Title	Assessment of varietal evaluation of Chickpea
Season & Year	Rabi/2024-25
Problem identified	Low yield due to grow of less productivity variety
Thematic Area	Varietal Evaluation

Farming situation	Irrigated
Name of Technology Intervention under study	Use of improved variety RVG-204
Farmers Practice	Use of variety ZAKI-9218
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
No. of pods/plant, plant population/sqm., yield q/ha.	

Detailed Information about OFT: 2

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of improved Utera technology in linseed crop
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Not proper utilization of soil moisture for Rabi crop
Thematic area:	Crop production
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcast of Linseed seed before harvesting of rice crop
T2 –Recommended Practice-	1. Use of seed rate 20Kg/ha 2. Seed treatment with Bio-fertilizer (Azotobactor, PSB, KSB, trichoderma) & Use of foliar spray of N:P:K (19 : 19 : 19) at 30 DAS. 3. Insect control Imidachlorpid 100ml @ 500 liter of water.
T3- Recommended Practice-	T3
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV,Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Linseed
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 2

Title	Assessment of improved Utera technology in linseed crop
Season & Year	2024/Kharif
Problem identified	Not proper utilization of soil moisture for Rabi crop
Thematic Area	Crop production
Farming situation	Rainfed

Name of Technology Intervention under study	1. Use of seed rate 20Kg/ha 2. Seed treatment with Bio-fertilizer (Azotobactor, PSB, KSB, trichoderma) & Use of foliar spray of N:P:K (19 : 19 : 19) at 30 DAS. 3. Insect control Imidachlorpid 100ml @ 500 liter of water.
Farmers Practice	Broadcast of Linseed seed before harvesting of rice crop
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
Yield (q/ha), B:C ratio, no. of Capsule /plant, plant population / sq m	-

Detailed Information about OFT: 3

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of varietal evaluation of Rice CR-Dhan - 314
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	low yield due to high incidence of insect (stem borer) and disease (blast & blight)
Thematic area:	Varietal evaluation
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of local variety (MTU1010)
T2 –Recommended Practice-	Use of variety CR -Dhan - 314 (Highly resistant to false smut, moderately susceptible to leaf blast and neck blast. Similarly, it is resistant to leaf folder and moderately resistant to stem borer (Dead heart), 6.63 t/ha)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR - National Rice Research Institute, Cuttuck, Odisha
Characteristics of technology:	-
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 3

Title	Assessment of varietal evaluation of Rice CR-Dhan - 314
Season & Year	Rabi/2023-24
Problem identified	low yield due to high incidence of insect (stem borer) and disease (blast & blight)
Thematic Area	Varietal evaluation

Farming situation	Irrigated
Name of Technology Intervention under study	Use of variety CR -Dhan - 314 (Highly resistant to false smut, moderately susceptible to leaf blast and neck blast. Similarly, it is resistant to leaf folder and moderately resistant to stem borer (Dead heart), 6.63 t/ha)
Farmers Practice	Use of local variety (MTU1010)
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
No. of tillers / plant, yield (q/ha), No. of dead heart/ sq m., B:C ratio.	

Detailed Information about OFT: 4

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agronomy
Title of on-farm trial:	Assessment of varietal evaluation & full package of practices of cotton
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Un-availability of suitable variety
Thematic area:	Varietal evaluation
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of old variety
T2 –Recommended Practice-	1. Use of improved variety Phule Asmita (RHH-917) Duration- 160-170 days, 25.0-30.0 Average yield (q/ha) Characters- (Semi–spreading, Resistant to GM, BLB and ALB. Moderately resistant to sucking pests and bollworms, Ginning percent 34.1, Fibre length (mm) 29.7, Bundle Strength (g/tex) 21.9g/tex, Micronaire value (ug/inch) 4, Spinning potential (Counts) 30-40S) 2. Full package of practices of cotton)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Mahatma Phule Krishi Vidyapeeth, Rahuri
Characteristics of technology:	-
Name of Crop/Enterprises:	Cotton
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 4

Title	Assessment of varietal evaluation of Rice CR-Dhan - 314
Season & Year	Rabi/2023-24
Problem identified	Un-availability of suitable variety
Thematic Area	Varietal evaluation
Farming situation	Irrigated
Name of Technology Intervention under study	1. Use of improved variety Phule Asmita (RHH-917) Duration- 160-170 days, 25.0-30.0 Average yield (q/ha) Characters- (Semi–spreading, Resistant to GM, BLB and ALB. Moderately resistant to sucking pests and bollworms, Ginning percent 34.1, Fibre length (mm) 29.7, Bundle Strength (g/tex) 21.9g/tex, Micronaire value (ug/inch) 4, Spinning potential (Counts) 30-40S) 2. Full package of practices of cotton)
Farmers Practice	Use of old variety
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
No. of tillers / plant, yield (q/ha), No. of dead heart/ sq m., B:C ratio.	

Detailed Information about OFT: 5

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Method of grafting and evaluation of grafted Brinjal for disease control.
Year/Season:	2023/Kharif
Farming situation:	Upland, midland and badi situation
Problem diagnosis:	Commonly all farmers suffering fusarium and bacterial wilt in brinjal, therefore using wild species of rotostock (<i>Solanum torvum</i> and <i>Solanum sisymbriifolium</i>)showed resistance against bacterial wilt. Is a one of the solution for cure these problems.
Thematic area:	Crop Production
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Hybrid or OP brinjal varieties
T2 –Recommended Practice-	Grafted brinjal (wilt resistant)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR-IIVR, Varanasi, Uttar Pradesh,
Characteristics of technology:	-
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 5

Title	Method of grafting and evaluation of grafted Brinjal for disease control.
Season & Year	Kharif/2023
Problem identified	Commonly all farmers suffering fusarium and bacterial wilt in brinjal, therefore using wild species of rotostock (<i>Solanum torvum</i> and <i>Solanum sisymbriifolium</i>) showed resistance against bacterial wilt. Is a one of the solution for cure these problems.
Thematic Area	Crop production
Farming situation	Upland, midland and badi situation
Name of Technology Intervention under study	Grafted brinjal (wilt resistant)
Farmers Practice	Hybrid or OP brinjal varieties
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
Disease incidence percentage, per plant yield , total yield /season ton/ha.	

Detailed Information about OFT: 6

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture
Title of on-farm trial:	Varietal evaluation of cluster bean (Pusa Navbahar) on rice bund condition during kharif.
Year/Season:	2023/Kharif
Farming situation:	Upland, Rice bund situation, midland and badi situation
Problem diagnosis:	Commonly all farmers grown local cultivars but due to powdery mildew and leaf spot they got low yield.
Thematic area:	Varietal evaluation
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local varieties
T2 –Recommended Practice-	Cluster bean (Pusa Navbahar) recommended practice
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR- Directorate of Weed Research, Jabalpur
Characteristics of technology:	-
Name of Crop/Enterprises:	Cluster Bean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 6

Title	Varietal evaluation of cluster bean (Pusa Navbahar) on rice bund condition during kharif.
Season & Year	Kharif/2023
Problem identified	Commonly all farmers grown local cultivars but due to powdery mildew and leaf spot they got low yield.
Thematic Area	Varietal evaluation
Farming situation	Irrigated
Name of Technology Intervention under study	Cluster bean (Pusa Navbahar) recommended practice
Farmers Practice	Local varieties
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
Disease incidence percentage, per plant yield, total yield /season ton/ha.	

Detailed Information about OFT: 7

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of full package practices of natural farming in Finger millet
Year/Season:	2024/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Poor fertilizers use efficiency due to poor soil quality & high cost of cultivation
Thematic area:	Natural Farming
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcast of Finger millet & imbalance use of fertilizer
T2 –Recommended Practice-	1. Seed treatment with Bijamreet 2. Ghanjeevamrit@250kg/ha. at sowing time 3. Foliar spray of Jeevamrit (5 times@5,10,15,20 & 25 li/100 li water at 25, 40, 55, 75, 90 DAS), 4. Neemastra @2.5%, Mulching
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Gurukul Institute Kurukshetra (Haryana)
Characteristics of technology:	-
Name of Crop/Enterprises:	Finger Millet
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 7

Title	Assessment of full package practices of natural farming in Finger millet
Season & Year	Kharif/2023
Problem identified	Poor fertilizers use efficiency due to poor soil quality & high cost of cultivation
Thematic Area	Organic Farming
Farming situation	Irrigated
Name of Technology Intervention under study	1. Seed treatment with Bijamreet 2. Ghanjeevamrit@250kg/ha. at sowing time 3. Foliar spray of Jeevamrit (5 times@5,10,15,20 & 25 li/100 li water at 25, 40, 55, 75, 90 DAS), 4. Neemastra @2.5%, Mulching
Farmers Practice	Broadcast of Finger millet & imbalance use of fertilizer
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
Soil test value Before sowing & after harvesting, No. of tillers/plan, Yield q/h, BC ration	

Detailed Information about OFT: 8

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science
Title of on-farm trial:	Assessment of full package of practices of natural farming in Lathyrus
Year/Season:	2024-25/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Poor fertilizers use efficiency due to poor soil quality & high cost of cultivation
Thematic area:	Natural Farming
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcast of Finger millet & imbalance use of fertilizer
T2 –Recommended Practice-	T2 1. Seed treatment with Bijamreet 2. Ghanjeevamrit@250kg/ha. at sowing time 3. Foliar spray of Jeevamrit (5 times@5,10,15,20 & 25 li/100 li water at 25, 40, 55, 75, 90 DAS), 4. Neemastra @2.5%, Mulching
T3- Recommended Practice-	Sulfosulfuron+metsulfuron@30+2g/ha at 25-30 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Gurukul Institute Kurukshetra (Haryana)
Characteristics of technology:	-
Name of Crop/Enterprises:	Lathyrus
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 8

Title	Assessment of full package of practices of natural farming in Lathyrus
Season & Year	Rabi/2024-25
Problem identified	Poor fertilizers use efficiency due to poor soil quality & high cost of cultivation
Thematic Area	Natural Farming
Farming situation	Irrigated
Name of Technology Intervention under study	1.Seed treatment with Bijamreet 2.Ghanjeevamrit@250kg/ha. at sowing time 3.Jivamreet at irrigation time or spraying of jivamreet @ 500 ltr/ ha 4. Mulching of crop residues & foliar spray of Nimastra & Bramhastra
Farmers Practice	Broadcast of Finger millet & imbalance use of fertilizer
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
Soil test value Before sowing & after harvesting, No. of tillers/plan, Yield q/h, BC ration	

Detailed Information about OFT: 9

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering
Title of on-farm trial:	Assessment of tractor drawn round straw baler
Year/Season:	2024/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Rice straw burning after harvesting crop causes air pollution
Thematic area:	Precision farming
No of trials:	2
No. of farmers involved	2
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Manually collected and store for animal consumption or straw burning
T2 –Recommended Practice-	Use of tractor operated round straw baler
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CIAE, Bhopal, IGKV, Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Straw baler
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 9

Title	Assessment of tractor drawn round straw baler
Season & Year	Kharif/2023
Problem identified	Rice straw burning after harvesting crop causes air pollution
Thematic Area	Precision farming
Farming situation	Irrigated
Name of Technology Intervention under study	Use of tractor operated round straw baler
Farmers Practice	Manually collected and store for animal consumption or straw burning
No. of replication (Farmers)	2

Results / findings

Performance indicators/ parameters	Unit/ details
Field capacity, ha/h, No. of bale per acres	

Detailed Information about OFT: 10

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering
Title of on-farm trial:	Assessment of Mini Dal Mill.
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Poor quality & losses in traditional method of Dal Making
Thematic area:	Agriculture Engineering
No of trials:	1
No. of farmers involved	1
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional Method for Milling Dal
T2 –Recommended Practice-	Demonstration & performance of Mini Dal Mill for Making Dal
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	-
Characteristics of technology:	-
Name of Crop/Enterprises:	Mini Dal Mill
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 10

Title	Assessment of Mini Dal Mill.
Season & Year	Rabi/2024-25
Problem identified	Poor quality & losses in traditional method of Dal Making
Thematic Area	Agriculture Engineering

Farming situation	Irrigated
Name of Technology Intervention under study	Demonstration & performance of Mini Dal Mill for Making Dal
Farmers Practice	Traditional Method for Milling Dal
No. of replication (Farmers)	1

Results / findings

Performance indicators/ parameters	Unit/ details
Dal recovery, Kg/hr , Broken losses %	

Detailed Information about OFT: 11

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering
Title of on-farm trial:	Assessment of Broad Bed Method of Chickpea Sowing
Year/Season:	2024-25/Rabi
Farming situation:	-
Problem diagnosis:	Due to higher moisture content in soil causes incident of collar rot & wilt disease
Thematic area:	Agriculture Engineering
No of trials:	7
No. of farmers involved	7
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Line sowing
T2 –Recommended Practice-	Broad bed method of chickpea sowing
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	PDKV, Akola 2018, IGKV 2016
Characteristics of technology:	-
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 11

Title	Assessment of Broad Bed Method of Chickpea Sowing
Season & Year	Rabi/2024-25
Problem identified	Due to higher moisture content in soil causes incident of collar rot & wilt disease
Thematic Area	Agriculture Engineering
Farming situation	-
Name of Technology Intervention under study	Broad bed method of chickpea sowing
Farmers Practice	Line sowing
No. of replication (Farmers)	1

Results / findings

Performance indicators/ parameters	Unit/ details
Field capacity ha/h, plant population/sqm, pods/plants	

Information about Home Science OFT:

Title of on-farm trial:	-
Year/Season:	-
Problem diagnosis:	-
Thematic area: (Focus area in DFI and nutri smart initiatives)	-
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	-

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details
Storage losses, %, sprouting,%	

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Mustard	Integrated Weed Management (IWM)	Demonstration of integrated weed management in Mustard	Seed, herbicide	2024-25 Rabi	5.2	13	No. of weed / sq m., yield, no. of Siliqua / plant, B:C ratio
2	Green gram	Integrated Crop Management	Demonstration of higher yielding variety of Green Gram Virat	Seed, Blofertilizer	2024-25 Summer	5.2	13	Yield, B:C ratio, no. of plant/m ² , no. of pods/ plant
3	Banana	Insect Pest Management	Demonstration of skirting bag in Banana	Skirting bag	2024 Kharif	0.4	12	Infestation of sucking pest %, fruit quality, colour of fruit Yield, BC ratio
4	Bhima Kiran	Varietal evaluation	Demonstration of onion variety Bhima Kiran	seeds	2024-25 Rabi	2.1	12	Bulb size, bulb weight, yield, BC ratio
5	Soybean	Integrated Nutrient management	Demonstration of Integrated nutrient management of Soybean.	Bio-fertilizer, seed	2024 Kharif	4	10	No. of Pod / plant , Yield q/ha, B:C Ratio
6	Chickpea	Natural Farming	Demonstration of full package of practices of natural farming in Chickpea	Seed, Besan, Gud, Plastic drum	2024-25 Rabi	4	10	No. of pod / plant, no. of branch /plant, Yield, BC ratio
7	Rice	Farm Mechanization	Demonstration of line sowing of rice with reduced seed rate	Sowing charges	2024 Kharif	4	10	Field capacity, ha/h, plant population/sqm, tiller/plants
8	Drone Technology	Farm Machinery	Demonstration of Drone Technology	drone hiring charging	2024-25 Rabi	4	10	Field capacity ha/h, insect/pest infestation/sqm,

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	January-December	300
2	Farmers Training	20	January-December	700
3	Media coverage	10	January-December	Mass
4	Training for extension functionaries	20	January-December	1100

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Seed Drill	Rice	Kharif 2024	10	4.04	Sowing charges	Field capacity, ha/h, plant population/sqm, tiller/plants	-	
Seed Drill	Rice	Kharif 2024	10	4.04	drone hiring charging	Field capacity ha/h, insect/pest infestation/sqm,	--	

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Black Gram	Crop production	High yielding variety, Line sowing, balance dose of fertilizer, seed treatment with bio fertilizer & bio fungicide, IPM	- Seed rate - 8kg - Bio fertilizer as seed treatment (Fungicide + PSB+Rhizobium)- 5ml.	Kharif 2024	20	50	-
2	Green gram			- Seed rate - 8kg - Bio fertilizer as seed treatment (Fungicide + PSB+Rhizobium)- 5ml.	Kharif 2024	20	50	-
3	Soybean			- Seed rate - 30kg - Bio fertilizer as seed treatment (Fungicide + PSB+Rhizobium)- 5ml. - Trichoderma- 0.5 kg	Kharif 2024	20	50	-
4	Pigeon pea			- Seed rate – 6 kg - Bio fertilizer as seed treatment (Fungicide + PSB+Rhizobium)- 5ml. - Trichoderma- 0.5 kg	Kharif 2024	20	50	-
5	Chickpea			- Seed rate- 30 kg - Bio fertilizer as seed treatment (Fungicide + Rhizobium + PSB)- 5 ml. - Trichoderma- 1kg.	Rabi 2024-25	20	50	-
7	Linseed			- Seed rate- 8kg, - Trizophos, and Bio fertilizer as seed treatment (Fungicide + PSB)	Rabi 2024-25	10	25	-
8	Mustard			- Seed rate - 2kg - Bio fertilizer as seed treatment (Fungicide + PSB)- 5ml/ kg seed	Rabi 2024-25			-
9	Green Gram			- Seed rate - 8kg - Bio fertilizer as seed treatment (Fungicide + PSB+Rhizobium)- 5ml.	Rabi 2024-25	20	50	-
10	Sunflower			- Seed rate - 2kg - Bio fertilizer as seed treatment (Fungicide + PSB)- 5ml	Rabi 2024-25	10	25	-

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	5	Jully to December	150
2	Farmers Training	10	Jully to December	250
3	Media coverage	10	Jully to september	Mass
4	Training for extension functionaries	10	Jully to December	350

Training (Including the sponsored and FLD training programmes):
A) ON Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	2	1	-	-	-	-	-	-	-
Resource Conservation Technologies			-	-	-	-	-	-	-
Integrated Farming	2	1	-	-	-	-	-	-	-
Water management	1	1	-	-	-	-	-	-	-
Seed production	2	1	-	-	-	-	-	-	-
Integrated Crop Management	2	1	-	-	-	-	-	-	-
Total	9	5	-	-	-	-	-	-	-
II Horticulture									
a) Vegetable & fruit Crops	2	1	-	-	-	-	-	-	-
Off-season vegetables	2	1	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	2	1	-	-	-	-	-	-	-
Total	6	3	-	-	-	-	-	-	-
b) Fruits			-	-	-	-	-	-	-
Management of young plants/orchards			-	-	-	-	-	-	-
Total	0	0	-	-	-	-	-	-	-
c) Ornamental Plants			-	-	-	-	-	-	-
Total	0								
d) Plantation crops	2	1	-	-	-	-	-	-	-
Total	2		-	-	-	-	-	-	-
e) Tuber crops	2	1	-	-	-	-	-	-	-
Total	2		-	-	-	-	-	-	-
f) Spices			-	-	-	-	-	-	-
Production and Management technology	1	1	-	-	-	-	-	-	-
Total	1		-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	0		-	-	-	-	-	-	-
Production and management technology	0		-	-	-	-	-	-	-
Total	0		-	-	-	-	-	-	-
Grand total (Horticulture)	11	6	-	-	-	-	-	-	-
III Soil Health and Fertility Management									
Soil fertility management	2	1	-	-	-	-	-	-	
Soil and Water Conservation	1	1	-	-	-	-	-	-	

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others				SC/ST			Grand Total
			Male	Female		Total	Male	Female		
Integrated Nutrient Management	2	1	-	-	-	-	-	-	-	
Production and use of organic inputs	2	1	-	-	-	-	-	-	-	
Management of Problematic soils	1	1	-	-	-	-	-	-	-	
Micro nutrient deficiency in crops	1	1	-	-	-	-	-	-	-	
Nutrient Use Efficiency	1	1	-	-	-	-	-	-	-	
Soil and Water Testing	1	1	-	-	-	-	-	-	-	
Total	11	8	-	-	-	-	-	-	-	
IV Livestock Production and Management										
Dairy Management	1	1	-	-	-	-	-	-	-	
Poultry Management	1	1	-	-	-	-	-	-	-	
Disease Management	1	1	-	-	-	-	-	-	-	
Feed management	1	1	-	-	-	-	-	-	-	
Production of quality animal products	1	1	-	-	-	-	-	-	-	
Total	5	5	-	-	-	-	-	-	-	
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	
Value addition	-	-	-	-	-	-	-	-	-	
Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-	-	
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	
Women and child care	-	-	-	-	-	-	-	-	-	

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others			SC/ST				Grand Total	
			Male	Female	Total	Male	Female	Total			
Total	-	-	-	-	-	-	-	-	-	-	
VI Agril. Engineering											
Total											
VII Plant Protection			-	-	-	-	-	-	-	-	
Integrated Pest Management	2	1	-	-	-	-	-	-	-	-	
Integrated Disease Management	2	1	-	-	-	-	-	-	-	-	
Bio-control of pests and diseases	2	1	-	-	-	-	-	-	-	-	
Production of bio control agents and bio pesticides	2	1	-	-	-	-	-	-	-	-	
Total	8	4	-	-	-	-	-	-	-	-	
VIII Fisheries											
Integrated fish farming			-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	-	-	-	
IX Production of Inputs at site											
Vermi-compost production	4	1	-	-	-	-	-	-	-	-	
Organic manures production	4	1	-	-	-	-	-	-	-	-	
Total	8	2	-	-	-	-	-	-	-	-	
X Capacity Building and Group Dynamics											
Leadership development	-	-	-	-	-	-	-	-	-	-	
Group dynamics	-	-	-	-	-	-	-	-	-	-	
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-	
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-	
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-	
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-	
Total	-	-	-	-	-	-	-	-	-	-	
XI Agro-forestry											
Total	-	-	-	-	-	-	-	-	-	-	
XII Others (Pl. Specify)											
Grand Total	-	-	-	-	-	-	-	-	-	-	
(B) RURAL YOUTH											
Mushroom Production	6	1	-	-	-	-	-	-	-	-	
Bee-keeping			-	-	-	-	-	-	-	-	
Seed production	2	1	-	-	-	-	-	-	-	-	
Planting			-	-	-	-	-	-	-	-	

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
material production											
Vermi-culture			-	-	-	-	-	-	-	-	
Value addition	1	1	-	-	-	-	-	-	-	-	
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-	
Para extension workers			-	-	-	-	-	-	-	-	
TOTAL	9	3	-	-	-	-	-	-	-	-	
(C) Extension Personnel	-	-	-	-	-	-	-	-	-	-	
Productivity enhancement in field crops	1	1	-	-	-	-	-	-	-	-	
Integrated Pest Management	2	1	-	-	-	-	-	-	-	-	
Integrated Nutrient management	2	1	-	-	-	-	-	-	-	-	
Protected cultivation technology	2	1	-	-	-	-	-	-	-	-	
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-	
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-	
Livestock feed and fodder production	1	1	-	-	-	-	-	-	-	-	
Production and use of organic inputs	1	1	-	-	-	-	-	-	-	-	
Gender mainstreaming through SHGs			-	-	-	-	-	-	-	-	
Any other (Pl. Specify)	5	1	-	-	-	-	-	-	-	-	
TOTAL	5	1	-	-	-	-	-	-	-	-	

B) OFF Campus

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	3	1	-	-	-	-	-	-	-
Resource Conservation Technologies			-	-	-	-	-	-	-
Integrated Farming	1	1	-	-	-	-	-	-	-
Water management	1	1	-	-	-	-	-	-	-
Seed production	2	1	-	-	-	-	-	-	-
Integrated Crop Management	2	1	-	-	-	-	-	-	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total	9	5	-	-	-	-	-	-	-
II Horticulture									
a) Vegetable & fruit Crops	2	1	-	-	-	-	-	-	-
Off-season vegetables	2	1	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	2	1	-	-	-	-	-	-	-
Total	6	3	-	-	-	-	-	-	-
b) Fruits			-	-	-	-	-	-	-
Management of young plants/orchards			-	-	-	-	-	-	-
Total	0	0	-	-	-	-	-	-	-
c) Ornamental Plants			-	-	-	-	-	-	-
Total	0								
d) Plantation crops	2	1	-	-	-	-	-	-	-
Total	2		-	-	-	-	-	-	-
e) Tuber crops	2	1	-	-	-	-	-	-	-
Total	2		-	-	-	-	-	-	-
f) Spices			-	-	-	-	-	-	-
Production and Management technology	1	1	-	-	-	-	-	-	-
Total	1		-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	0		-	-	-	-	-	-	-
Production and management technology	0		-	-	-	-	-	-	-
Total	0		-	-	-	-	-	-	-
Grand total (Horticulture)	11	6	-	-	-	-	-	-	-
III Soil Health and Fertility Management									
Soil fertility management	2	1	-	-	-	-	-	-	-
Soil and Water Conservation	1	1	-	-	-	-	-	-	-
Integrated Nutrient Management	2	1	-	-	-	-	-	-	-
Production and use of organic inputs	2	1	-	-	-	-	-	-	-
Management of Problematic soils	1	1	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	1	1	-	-	-	-	-	-	-
Nutrient Use Efficiency	1	1	-	-	-	-	-	-	-
Soil and Water Testing	1	1	-	-	-	-	-	-	-
Total	11	8	-	-	-	-	-	-	-
IV Livestock Production and Management									
Dairy	1	1	-	-	-	-	-	-	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Management									
Poultry Management	1	1	-	-	-	-	-	-	
Disease Management	1	1	-	-	-	-	-	-	
Feed management	1	1	-	-	-	-	-	-	
Production of quality animal products	1	1	-	-	-	-	-	-	
Total	5	5	-	-	-	-	-	-	
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-
Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-	-
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	
VI Agril. Engineering									
Total									
VII Plant Protection			-	-	-	-	-	-	-
Integrated Pest Management	2	1	-	-	-	-	-	-	-
Integrated Disease Management	2	1	-	-	-	-	-	-	-
Bio-control of pests and diseases	2	1	-	-	-	-	-	-	-
Production of bio control agents and bio pesticides	2	1	-	-	-	-	-	-	-
Total	8	4	-	-	-	-	-	-	-
VIII Fisheries			-	-	-	-	-	-	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Integrated fish farming			-	-		-	-		-		-
Total			-	-		-	-		-		-
IX Production of Inputs at site			-	-	-	-	-	-	-	-	-
Vermi-compost production	4	1	-	-	-	-	-	-	-	-	-
Organic manures production	4	1	-	-	-	-	-	-	-	-	-
Total	8	2	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics			-	-	-	-	-	-	-	-	-
Leadership development			-	-	-	-	-	-	-	-	-
Group dynamics			-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-
Grand Total	-	-	-	-	-	-	-	-	-	-	-
(B) RURAL YOUTH	-	-	-	-	-	-	-	-	-	-	-
Mushroom Production	6	1	-	-	-	-	-	-	-	-	-
Bee-keeping			-	-	-	-	-	-	-	-	-
Seed production	2	1	-	-	-	-	-	-	-	-	-
Planting material production			-	-	-	-	-	-	-	-	-
Vermi-culture			-	-	-	-	-	-	-	-	-
Value addition	1	1	-	-	-	-	-	-	-	-	-
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-	-
Para extension workers			-	-	-	-	-	-	-	-	-
TOTAL	9	3	-	-	-	-	-	-	-	-	-
(C) Extension Personnel	-	-	-	-	-	-	-	-	-	-	-
Productivity enhancement in field crops	1	1	-	-	-	-	-	-	-	-	-
Integrated Pest Management	2	1	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	2	1	-	-	-	-	-	-	-	-	-

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June, July, October, November	-	Weed management in Rice, soybean, black gram, wheat, chickpea	5	-	-	-	-	-	-	-
June, July, October, November	-	Integrated farming system	2	-	-	-	-	-	-	-
June, July, October, November	-	Production technology of Soybean, Pigeon pea, Green gram, Black gram	2	-	-	-	-	-	-	-
June, July, October, November	-	Integrated Crop Management in Soybean, Wheat, Maize, Chickpea	2	-	-	-	-	-	-	-
June, July, October, November, August	-	Training on vermin compost production	2	-	-	-	-	-	-	-
June, July, October, November	-	Good agriculture practices on Green gram & black gram	2	-	-	-	-	-	-	-
Horticulture										
June, July, October, November		Production of low volume and high value crops	2	-	-	-	-	-	-	-
June, July, October, November		Nursery management of rabi vegetable crops	2	-	-	-	-	-	-	-
June, July, October, November		Grading and value addition of fruits and vegetable crops	2	-	-	-	-	-	-	-
June, July, October, November		Use of shed net and green house for commercial vegetable and flower production.	2	-	-	-	-	-	-	-

June, July, October, November		Onion cultivation and post harvest storage management.	2	-	-	-	-	-	-	-
June, July, October, November		Training and pruning of guava crops	2	-	-	-	-	-	-	-
		Layout and garden management	2	-	-	-	-	-	-	-
June, July, October, November		Cultivation practice of fruits crops	2	-	-	-	-	-	-	-
June, July, October, November		Management of mother orchard of guava	2	-	-	-	-	-	-	-
June, July, October, November		Propagation practice of fruit crops	2	-	-	-	-	-	-	-
June, July, October, November		Post harvest management and processing of fruits and vegetables.	2	-	-	-	-	-	-	-
Livestock production				-	-	-	-	-	-	-
				-	-	-	-	-	-	-
				-	-	-	-	-	-	-
				-	-	-	-	-	-	-
Home Science				-	-	-	-	-	-	-
				-	-	-	-	-	-	-
Plant Protection				-	-	-	-	-	-	-
June, July, October, November		Integrated Pest Management on vegetable & cereal crops	3	-	-	-	-	-	-	-
June, July, October, November		Integrated Disease Management in Kharif crop	3	-	-	-	-	-	-	-
June, July, October, November		Bio control of pests and diseases Management in Chickpea	3	-	-	-	-	-	-	-
June, July, October, November		Mushroom production technology	5	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
June, July, October, November		Mulching in horticulture crops	2	-	-	-	-	-	-	-
June, July,		Care &	2	-	-	-	-	-	-	-

October, November		maintenance of primary tillage machine								
June, July, October, November		Value addition of Forest produce & processing of Agriculture products	2	-	-	-	-	-	-	-
June, July, October, November		Post Harvest Technology cereals	2	-	-	-	-	-	-	-
June, July, October, November		Line sowing of paddy by seed drill	2	-	-	-	-	-	-	-
Soil Science		Organic farming in Kharif & Rabi crops	2	-	-	-	-	-	-	-
June, July, October, November		Integrated Nutrient Management in Rice	2	-	-	-	-	-	-	-
June, July, October, November, Decmber		Natural Farming	2	-	-	-	-	-	-	-
June, July, October, November		Use & Application of FYM & vermin compost in Acidic Soil	2	-	-	-	-	-	-	-
June, July, October, November		Management of khaira disease in Rice crop & Boron deficiency in fruit crop	2	-	-	-	-	-	-	-
June, July, October, November		Use of balance fertilizer in Kharif crop , use of balance fertilizer in pulses crop & Oilseed crops,	2	-	-	-	-	-	-	-
June, July, October, November		Use of soil health card, Importance of soil testing	2	-	-	-	-	-	-	-
June, July, October, November		Organic farming in Rice, Method & preparation of vermi compost, Trichoderma, bio fertilizer & waste decomposer	2	-	-	-	-	-	-	-

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
June, July, October, November	-	Weed management in Rice, soybean, black gram, wheat, chickpea	5	-	-	-	-	-	-	-
June, July, October, November	-	Integrated farming system	2	-	-	-	-	-	-	-
June, July, October, November	-	Production technology of Soybean, Pegionpea, Green gram, Black gram	2	-	-	-	-	-	-	-
June, July, October, November	-	Integrated Crop Management in Soybean, Wheat, Maize, Chickpea	2	-	-	-	-	-	-	-
June, July, October, November, August	-	Training on vermin compost production	2	-	-	-	-	-	-	-
June, July, October, November	-	Good agriculture practices on Green gram & black gram	2	-	-	-	-	-	-	-
Horticulture										
June, July, October, November		Production of low volume and high value crops	2	-	-	-	-	-	-	-
June, July, October, November		Nursery management of rabi vegetable crops	2	-	-	-	-	-	-	-
June, July, October, November		Grading and value addition of fruits and vegetable crops	2	-	-	-	-	-	-	-
June, July, October, November		Use of shed net and green house for commercial vegetable and flower production.	2	-	-	-	-	-	-	-
June, July,		Onion	2	-	-	-	-	-	-	-

October, November		cultivation and post harvest storage management.								
June, July, October, November		Training and pruning of guava crops	2	-	-	-	-	-	-	-
		Layout and garden management	2	-	-	-	-	-	-	-
June, July, October, November		Cultivation practice of fruits crops	2	-	-	-	-	-	-	-
June, July, October, November		Management of mother orchard of guava	2	-	-	-	-	-	-	-
June, July, October, November		Propagation practice of fruit crops	2	-	-	-	-	-	-	-
June, July, October, November		Post harvest management and processing of fruits and vegetables.	2	-	-	-	-	-	-	-
Livestock production				-	-	-	-	-	-	-
				-	-	-	-	-	-	-
				-	-	-	-	-	-	-
				-	-	-	-	-	-	-
Home Science				-	-	-	-	-	-	-
				-	-	-	-	-	-	-
Plant Protection										
June, July, October, November		Integrated Pest Management on vegetable & cereal crops	3	-	-	-	-	-	-	-
June, July, October, November		Integrated Disease Management in Kharif crop	3	-	-	-	-	-	-	-
June, July, October, November		Bio control of pests and diseases Management in Chickpea	3	-	-	-	-	-	-	-
June, July, October, November		Mushroom production technology	5	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
June, July, October, November		Mulching in horticulture crops	2	-	-	-	-	-	-	-
June, July, October,		Care & maintenance of	2	-	-	-	-	-	-	-

November		primary tillage machine								
June, July, October, November		Value addition of Forest produce & processing of Agriculture products	2	-	-	-	-	-	-	-
June, July, October, November		Post Harvest Technology cereals	2	-	-	-	-	-	-	-
June, July, October, November		Line sowing of paddy by seed drill	2	-	-	-	-	-	-	-
Soil Science		Organic farming in Kharif & Rabi crops	2	-	-	-	-	-	-	-
June, July, October, November		Integrated Nutrient Management in Rice	2	-	-	-	-	-	-	-
June, July, October, November, Decmber		Natural Farming	2	-	-	-	-	-	-	-
June, July, October, November		Use & Application of FYM & vermin compost in Acidic Soil	2	-	-	-	-	-	-	-
June, July, October, November		Management of khaira disease in Rice crop & Boron deficiency in fruit crop	2	-	-	-	-	-	-	-
June, July, October, November		Use of balance fertilizer in Kharif crop , use of balance fertilizer in pulses crop & Oilseed crops,	2	-	-	-	-	-	-	-
June, July, October, November		Use of soil health card, Importance of soil testing	2	-	-	-	-	-	-	-
June, July, October, November		Organic farming in Rice, Method & preparation of vermi compost, Trichoderma, bio fertilizer & waste decomposer	2	-	-	-	-	-	-	-

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Soil Science		-	-							
June, July, October, November	30	Organic farming	1	-	-	-	-	-	-	-
June, July, October, November	30	Vermi compost	1	-	-	-	-	-	-	-
				-	-	-	-	-	-	-

Training Programme for Extension Functionaries:

[illegible]

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
January, February, march, June, July	40	Mushroom production technology	2							40
January, February, march, June, July	40	Disease and pest management of Kharif crops	2							40
January, February, march, June, July	40	Disease and pest management of Rabi crops	2							40
Agriculture Extension (Capacity Building and Group Dynamics)										
January, February, march, June, July	40	Care & maintenance of micro irrigation systems	2							40
October, November	40	Rice straw management	2							40
Soil Science										
June, July October, November	40	Natural Farming	2							40
June, July October, November	40	Organic Framing	2							40
June, July October, November	40	Soil health and Nutrient management	2							40

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	6	-	-	180	-	-	8	-	-	188
Kisan Mela	2	-	-	900	-	-	10	-	-	910
Kisan Ghosthi	10	-	-	200	-	-	5	-	-	205
Exhibition	5	-	-	1100	-	-	5	-	-	1105
Film Show	3	-	-	150	-	-	2	-	-	152
Method Demonstrations	4	-	-	100	-	-	2	-	-	102
Farmers Seminar	2	-	-	100	-	-	2	-	-	102
Workshop	5	-	-	600	-	-	5	-	-	605
Group meetings	12	-	-	250	-	-	7	-	-	257
Lectures delivered as resource persons	12	-	-	250	-	-	7	-	-	257
Newspaper coverage	50	-	-	Mass	-	-	0	-	-	0
Radio talks	7	-	-	Mass	-	-	0	-	-	0
TV talks	5	-	-	Mass	-	-	0	-	-	0
Popular articles	3	-	-	500	-	-	0	-	-	500
Extension Literature	3	-	-	500	-	-	0	-	-	500
Advisory Services	104	-	-	175000	-	-	0	-	-	175000
Scientific visit to farmers field	30	-	-	400	-	-	0	-	-	400
Farmers visit to KVK	50	-	-	3000	-	-	35	-	-	3035
Diagnostic visits	12	-	-	160	-	-	0	-	-	160
Exposure visits	5	-	-	120	-	-	0	-	-	120
Ex-trainees Sammelan	0	-	-	0	-	-	0	-	-	0
Soil health Camp	1	-	-	120	-	-	2	-	-	122
Animal Health Camp	1	-	-	200	-	-	1	-	-	201
Agri mobile clinic	0	-	-	0	-	-	0	-	-	0
Soil test campaigns	0	-	-	0	-	-	0	-	-	0
Farm Science Club Conveners meet	0	-	-	0	-	-	0	-	-	0
Self Help Group Conveners meetings	3	-	-	60	-	-	0	-	-	60
Mahila Mandals Conveners meetings	0	-	-	-	-	-	0	-	-	0
Celebration of important days (specify)	15	-	-	800	-	-	14	-	-	814
Others (pl. specify)	15	-	-	800	-	-	14	-	-	814
Total	365	0	0	185490	0	0	119			185609

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	MTU-1010	180.00
	Paddy	Maheshwari	64.00
	Paddy	Vishnubhog Selection-1	16.00
	Wheat	Kaniska	40.00
OILSEEDS			
PULSES	Pigeon Pea	CG Arhar-1	180
	Black Gram	Indira Urad-1	300
	Chickpea	RVG-204	400
	Green Gram	Shikha/MH-421	260
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Tiwan-786	20000
	Anola	Narendra Anola-7	5000
	-	-	-
SPICES	-	-	-
	-	-	-
	-	-	-
VEGETABLES	Drumstick	PKM-1	100000
	Tomato	Arka Rakshak	100000
	Brinjal	Hybrid	5000
	Chilli	OP	5000
FOREST SPECIES	Neem	Desi	2000
	-	-	-
	-	-	-
ORNAMENTAL CROPS	-	-	-
	-	-	-
PLANTATION CROPS	-	-	-
	-	-	-
	-	-	-
Others (specify) Flower	Marrigold	Pusa Basanti/Pusa Bahar	5000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	-	-
2	Rhizobium	-	-	-
3				
BIOFERTILIZERS				
1	Vermicompost	-	-	200
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl	-	-	100 liter
2	Pesticides	-	-	-
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-	-	-	-
	-	-	-	-
SHEEP AND GOAT	-	-	-	-
	-	-	-	-
POULTRY	-	-	-	-
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published**KVK News Letter**

Date of start	Periodicity	Number of copies to be published
-	January to March 2024	500
-	April to June 2024	500
-	July to September 2024	500
-	October to December 2024	500
-		
-		

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	-	-	-
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	-
2	Rural Youth	-
3	In-service personnel	-
4	methodology for identifying OFTs/FLDs	-
5	Matrix ranking	-

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Sonsaytola	Ambagarh Chowki	56
2	Kektitola	Ambagarh Chowki	68
3	Sirsahi	Rajnandgaon	25
4	Mohbhatta	Mohla	68

1. No. of farm families selected per village : 20

2. No. of survey/PRA to be conducted: 12

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....2016.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Mini soil testing lab	1	Not working
2			
3			
4			
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	500	500	20	-
Water Samples	-	-	-	-
Total	500	500	20	-

LINKAGES**Functional linkage with different organizations**

Name of organization	Nature of linkage
College of Agriculture, Surgi, Rajnandgaon (IGKV). Chhattisgarh	Training & Other extension activity
IMD- Met Center Raipur. Chhattisgarh	Advisory, Training & Other extension activity under DAMU
Department of Agro meteorology, IGKV Raipur Chhattisgarh	Advisory, Training & Other extension activity under DAMU
DDA- Depti Director of Agriculture Rajnandgaon. Chhattisgarh	Training & Other extension activity
ADH- Assistant Director of Horticulture Rajnandgaon. Chhattisgarh	Training & Other extension activity
DDV- Depti Director of Veterinary Rajandgaon. Chhattisgarh	Training & Other extension activity
SADO All Block of District Chhattisgarh	Training & Other extension activity
IFFCO	Training & Other extension activity
NABARD	Training & Other extension activity
District Administration	Financial and technical guidance
Zila panchayat	Financial and technical guidance
NGOs	Technical guidance
FPO and SHGs	Technical guidance

Details of linkage with ATMA / NFSM**a) Is ATMA implemented in your district**

Yes

Name of Programme	Nature of linkage
Farmer Scientist Interaction	Identification of field problem and their solution at their farmer field
Kisan Mela	Awareness Programme
Kisan Gosthi	Making farmers aware about latest technologies
ATMA group at block level	Capacity building
Field day	Demonstrating the validity and location specificity of the technology
Exposure visit	Exposure of farmers at state and district level
Training	Practicing farmer & rural youths
Demonstration	Demonstrate the recommended technology at farmer is field

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Accreditation	Yearly Nursery/Mother orchard accreditation

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes- Natural Farming

Month	Activity details	Beneficiaries/Area/Coverage
January- December	Training	40
January- December	Awareness programme	1335
January- December	Demonstration	3.23 ha

Name of Flagship programmes- Seed Hub

Month	Activity details	Beneficiaries/Area/Coverage
January- December	Seed production programme on Pulses crops	30 ha.
January- December	Training on seed programme	175

Name of Flagship programmes- Agri Drone

Month	Activity details	Beneficiaries/Area/Coverage
January- December	Technical inputs demonstrated (pesticide/nutrient)	12/20 ha.

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 810 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	Indira Barani	Early, Medium and long duration varieties suitable for different land situation	3x10 (30 sqm)
Paddy	Kharif	Indira Arobic		3x10 (30 sqm)
Paddy	Kharif	RRF-105		3x10 (30 sqm)
Paddy	Kharif	MTU-1318		3x10 (30 sqm)
Paddy	Kharif	CR Dhan- 313		3x10 (30 sqm)
Paddy	Kharif	DRR-42		3x10 (30 sqm)
Paddy	Kharif	CG Zinc		3x10 (30 sqm)
Paddy	Kharif	Proto Zinc		3x10 (30 sqm)
Paddy	Kharif	Shyamla		3x10 (30 sqm)
Paddy	Kharif	CG Sungandhit		3x10 (30 sqm)
Paddy	Kharif	DRR-53		3x10 (30 sqm)
Paddy	Kharif	Swarna Sab-01		3x10 (30 sqm)
Paddy	Kharif	Swarna		3x10 (30 sqm)
Paddy	Kharif	CG Sungandhit		3x10 (30 sqm)
Paddy	Kharif	CG Devbhog		3x10 (30 sqm)
Paddy	Kharif	Dubraj Selection		3x10 (30 sqm)
Paddy	Kharif	Vishnu Bhog		3x10 (30 sqm)
Paddy	Kharif	Tarun Bhog		3x10 (30 sqm)
Paddy	Kharif	Nagriy Dubraj		3x10 (30 sqm)
Onion	Kharif	Bhima shakti	High yielding variety , suitable for kharif season	3x10 (30 sqm)
Wheat	Rabi	Kniska	High yielding variety , good making chapati	3x10 (30 sqm)
Chickpea	Rabi	RVG-204	High yielding variety , resistant to wilt disease	3x10 (30 sqm)
Coriander	Rabi	ACR-1	High yielding variety , resistant to gallmidge & powdery mildue	3x10 (30 sqm)
Coriander	Rabi	Pant Haritima	High yielding variety , green colour of seed	3x10 (30 sqm)
Spinach	Rabi	All green	High yielding variety , short duration	3x10 (30 sqm)
Spinach	Rabi	Pusa Bharti	High yielding variety ,	3x10 (30 sqm)
Onion	Rabi	Bhima Kiran	High yielding variety , suitable for Rabi season	3x10 (30 sqm)

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Seed Hub	Seed grading	200 (20x10)	1000 qtl.
Mushroom production unit	Spawn & Mushroom production	150 (15x10)	500 mushroom cylinder
Shed net	Hi-tech vegetable crop production	600 (2 no. 20x15)	Grow of cucumber, seedling, capsicum
Dairy unit		90 (15x8)	4 animals
Goatry unit	Graded Sirohi	30 (15x6)	15 goats
Poultry unit		80 (10x8)	200 birds
Vermi compost unit	vermi compost	80 (5 no. 2x8)	10 Vermi beds
Azola Unit		24 (4 No.3x2)	2 unite
Automatic rice mill	quality rice processing	1 No.	Milling of scented rice
Millet processing unit	millet processing	80 (1 No. 10x8)	Millet processing
Drip irrigation system unit		1 No.	Vegetable & fruit production
Nursery unit	Prepare of planting material	200 (20x10)	242000 seedling/plants
Automatic weather station unit	Manual & automatic weather data collection	600 (1 No.30x20)	Send massage Agro advisory & watsapp group

ANNUAL ACTION PLAN 2024

KVK Sukma

Year of sanction: 2018-19

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Mr. Hanumant SinghTomar	Krishi Vigyan Kendra, Sukma	9826141057, 9644701057	Kvksukma2019@gmail.com, kvk.sukma@igkv.ac.in

1.2 Staff Position on (31th Dec. 2023)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	Vacant								
2	Subject Matter Specialist	Mr. H.S.Tomar	SMS & I/c SS&Head	Agronomy	15600-39100+5400	13/11/2007	12/01/2023	9826141057	Hanumanttomar18@gmail.com	
3	Subject Matter Specialist	Mr. R.P.Kashyap	SMS	Plant Pathology	15600-39100+5400	03/12/2014	05/03/2019	9399061223	kashyaprajendraprasad74@gmail.com	
4	Subject Matter Specialist	Dr. Parmanand	SMS	FM & PE	15600-39100+5400	13/09/2023	13/09/2023	9770196616	erparmanandsahu@gmail.com	
5	Subject Matter Specialist	Dr. Yogesh Kumar Sidar	SMS	Entomology	15600-39100+5400	15/09/2023	15/09/2023	9617474789	sidaryogesh1@gmail.com	
6	Subject Matter Specialist	Vacant								
7	Subject Matter Specialist	Vacant								
8	Programme Assistant	Dr. Sanjay Singh Rathore	PA	Fisheries	9300-34800+4200	03/10/2023	03/10/2023	9584377201	sanjay.rathore941@gmail.com	
9	Computer Programmer/ Programme Assistant	Miss Kalpana Banjare (Attached at DES Office, IGKV, Raipur)	PA	Computer	9300-34800+4200	26/10/2019	15/12/2023	8982163245	kalpana.nit@gmail.com	
10	Farm Manager	Vacant								
11	Assistant	Vacant								
12	Jr. Stenographer / Comp. Operator	Miss Aakanksha Bhadauriya	AG-02		18420	14/01/2021	14/01/2021	7489834366	Kvksukma2019@gmail.com	
13	Driver	Parmesh Singh Sori	Driver	-	14200	23/12/2020	23/12/2020	9406027640	Kvksukma2019@gmail.com	
14	Driver	Jyotish Kumar Potla	Driver	-	14200	10/12/2020	10/12/2020	7067404221	Kvksukma2019@gmail.com	
15	Supporting staff	Shubham Sahu	Peon	-	11360	18/01/2020	18/01/2020	6260652640	Kvksukma2019@gmail.com	
16	Supporting staff	Smt. Luxmi Thakur	Peon	-	11360	07/12/2022	07/12/2022	9770374635	Kvksukma2019@gmail.com	

*Status on Dated 11-03-2024, all the contractual positions are vacant.

1.3 Total land with KVK (in ha): 20.49

S. No.	Item	Area (ha)
1	Under Buildings	03
2	Under Demonstration Units	02
3	Under Crops	06
4	Orchard/Agro-forestry	05
5	Others (specify)	04
Total		20

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	2022			2021		
2	Farmers Hostel	ICAR	2022		7500000	2021		
3	Staff Quarters (6)	-	-	-	-	-	-	-
4	Demonstration Units (2)	-	-	-	-	-	-	-
5	Farm Fencing	District Administration	2022	3.50 km	24290000	2021		
6	Rain Water harvesting system	-	-	-	-	-		
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	ICAR	2022		3200000	2021		
9	Construction of Farm Road(BT)	District Administration	2022		30.00	2021		
10	Construction of Farm connectivity Road(WBM)	-do-	2022			2021		
11	Construction of Soil Testing lab	-do-	2022		24.59	2021		
12	Farmer Training Center	--do--	2022		25.00	2021		
13	Poultry unit (Hatchery cum layer shed)	--do--	2022		29.26	2021		
14	Goatry unit	--do--	2022		29.74	2021		
15	Mushroom Unit	--do--	2022		20.00	2021		
16	Fish Hatchery unit	--do--	2022		20.00	2021		
17	Electrification with Transformer	--do--	2022		25.50	2021		
18	Digging of tubewell	--do--	2022		21.60	2021		
19	Soil sample test	ITDP (AC Tribal)	2022		10.70	2021		
20	Deep Ploughing	--do--	2023		3.50	2021		
22	Development of irrigation facility	--do--	2022		6.80	2021		

A) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller) 02	2019 & 2020			
Motor Cycle 2	-	-		
Bolero(Jeep)	2020	584000		
Other (Pl. specify)Cycle	2020	5000		

B) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer 05	2019/2020/2021/2022		All are running
Printer 04	2020/2021/2022		3 Printer are Running Position
Projector 01	2022		Running
Camera 01	2022		Running
Laptop 01	2022		Running
Cach Wheel 02	2019/2020/2021/2022		Running
Seed Drill 02	2021/2022		Running
Disc Harrow 01	2022		Running
Cultivator 03	2019/2020/2021/2022		Running

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	May 2023
2	

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1	Bastar plateau zone

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	Agro Ecological Sub Region (ICAR)	Eastern (Chotanagpur) plateau and eastern ghats sub humid eco-region (12.1)
2	Agro-Climatic Zone (Planning Commission)	Eastern plateau and hill region (VII)
3	Agro Climatic Zone (NARP)	Bastar plateau zone
4	Geographic coordinates of district headquarters	Latitude/ 18.40 N, Longitude 81.66 E,Altitude 197m

SWOT Analysis of each Agro-Ecological Situations of district AES-1 (Bastar Platue)

Strength	Weakness	Opportunities	Threats
• Rich in Natural Resources,	• Light soil,undulating land,low literacy,least irrigation facility, labour problems etc.	• Agro forestry,horticulture,IFS Model, value addition of NTFP	• Flooding,Grazing,socio economic imbalance,scattered crop cultivation

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	580.405
Forest	210.803
Waste Land	0
Other than cultivated area	12.7
Cultivable waste and alkaline land	23
Pastures	24.535
Bushes	-
Current Fallow	6.9
Other Fallow	11.2
Agricultural Land	97.405
Area Sown	96.708
Kharif	91.321
Rabi	5.387
Zaid	-
Cropping Intensity	101%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	0.798
2	Well	0.031
3	Tube well	1.168
4	Ponds	3.352
5	Others	1.022
	Total	5.573

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Entisol (Marhan)	Bhata-gravelly	25.144(26%)
2	Inceptisol(Tikra)	Matasi-Sandyloam	32.881(34%)
3	Alfisols(Mal)	Dorsa-Clayloam	24.177(25%)
4	Vertisols(Gabhar)	Kanhar-Clayey	9.670(10%)
5	Alluvial soil	Kachhari-Sandy Clay-loam	4.835(5%)

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Rice	73179	899663	1229.40
2	Maize	7180	124932	1740
3	Kodo/Kutki	4144	24864	600

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 2023	1.13	29	12
Feb, 2023	0.0	30	14
Mar, 2023	0.0	35	18
Apr, 2023	0.0	36	23
May, 2023	75.4	37	25
Jun, 2023	122.33	35	24
July, 2023	455.21	30	23
Aug., 2023	501.34	28	22
Sept., 2023	517.38	33	23
Oct. 2023	37.42	32	22
Nov. 2023	0	31	16
Dec. 2023	0	30	14

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle	total 87298		
<i>Crossbred/ Indigenous</i>		 MT.	 kg
Buffalo	22612	 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>	7321	 MT wool	 kg
Goats	68571	 MT	 kg
Pigs	32653	---	---
Rabbits			
Poultry			
Hens	1303259	 Lakh eggs	 eggs/ bird/yr
Turkey and others	11853		
Category	Area	Production	Productivity
Fish	 (ha)	Q/ month	 Q/ ha.

Details of Operational area / Villages (2023)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Sukma	Sukma	Kudkel	Bater,Kadaknath and Mini Rice mill (TSP)	Too far from district head qtr.,mal nution	Improve of Income generation and value addition of rice
2			Koyabeku	Mini Rice Mill,	Too for from	Value addition of

					district head qtr.	rice
3			Korra	Mini Rice Mill & Vegetable Production	Too far from district head qtr.,mal nutrition	Value addition of rice and high quantity of vegetable Production
4			Bhandar ras	kadaknath unit	mal nutrition	Improve Income generation
5			Muyapara	Bater unit	mal nutrition	Improve Income generation
5	Chhindgarh	Chhindgarh	Pujaripal	Mini Rice mill,Zinc Rice Production Goatry Production, Vegetable Production,Net shed(Biotech Kisan),Bater Unit,Kadaknath Unit	Too far from district head qtr.,mal nutrition	Value addition of rice,Introduction of improve short duration rice varieties
6			Chipurpal	Zinc Rice Production, Tepnal Pipe distribution for Vegetable production	Too far from district head qtr.,mal nutrition and least irrigation facility	Introduction of improve short duration rice varieties and improve irrigation facility and vegetable production
			Ratinaikras	Tepnal Pipe distribution,Pulses seed distribution under CFLD	Too far from district head qtr.,mal nutrition and least irrigation facility & use of local seed	Promotion of pulses and oilseeds crop
			Urmapal	Seed distribution of pulses under CFLD	Use if local seed	Promotion of pulses and crop

Priority / Thrust areas

S. No.	Particulars
1.	Introduction of improve short duration rice varieties
2.	Promotion of pulses and oilseeds crop
3	Integrated nutrient management (Utilization of Vermicompost)
4	Integrated pest and disease management
5	Development of forest based enterprises
6	Rain water management for drought mitigation.
7	Promotion of farm mechanization
8	Skill development training for SHGs.
9	Scientific livestock management (with appropriate feeding, breeding and health management practices)
10	Scientific demonstration of hi-tech agricultural machinery in the farmer's field.
11	Adoption of advance technology in fisheries and aquaculture

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
10	70	10	100

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2400	282	5500

Seed Production (Qtl.)	Planting material (Nos.)
150 Approx.	25000

B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Finger Millets (Ragi)	Finger Millets (Ragi)	Low Production due to Traditional Practice Adopted	Assessment of Finger Millets(Ragi) under Natural Farming Practice					
2	IFS Model	Kharif & Rabi	Low Income from Existing Farming System	Assessment of IFS model for Small and Marginal Farmers (1 ha)					
3	Management of Blast Disease	Vegetable crop	Yield loss due to Blast Diseases	Assessment of Indigenous Disease Management Practice in Rice					
4	Diseases Tolerant of Brinjal	Vegetable crop	Wilting is major problem in brinjal cultivated area in district	Assessment of Brinjal var. Kasi Uttam					
5	Assessment of Dibbler	Agriculture crops	Sowing of seed by broadcasting includes excess seeds, uneven seed distribution and improper depth of	Assessment of Dibbler for line Sowing of Pigeonpea.					

			sowing caused overall yield decreases						
6	Zero Till Seed Cum Fertilizer Drill	Agriculture crops	Delay in Sowing due to not availability of optimum field condition for preparation. There is loss of fertilizer and seeds in broadcasting technique	Assessment of Zero Till Seed cum Fertilizer Drill for Line Sowing of Mustard.					
7	Integrated Pest Management of FAW	Maize	Low yield of Maize due to more Infestation of Fall Army Worm, <i>Spodoptera frugiperda</i>	Assessment of Fall Army Worm, <i>Spodoptera frugiperda</i> in Maize					
8	Pest Management of Brinjal Shoot And Fruit Borer	Brinjal	Yield loss due to more Infestation of Brinjal Shoot and Fruit Borer (<i>Leucinodes orbonalis</i>)	Assessment of Brinjal Shoot and Fruit Borer (<i>Leucinodes orbonalis</i>)					
9	Advance Grow-out Culture Practices of IMC in Culture Pond	Fish	Low Income from Existing Farming System	Assessment of growth performance & feed utilization of IMC in Grow-out ponds					
10	Growth Performance Of Stunted Indian Major Carp Fingerlings	Fish	Low Income of farmers due to lack of advancement	Assessment of growth performance of Stunted Fingerlings of IMC in Grow-out Ponds					

[illegible]

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
TOTAL								

Details of On Farm Trial (OFT)**OFT 1: Assessment of Finger Millets(Ragi) under Natural Farming Practice**

Crop/Enterprise/Season	Finger Millets (Ragi), Vareity : Indira Ragi-1/Kharif-2024
Title of On-farm Trial	Assessment of Finger Millets(Ragi) under Natural Farming Practice
Problem Diagnosed	Low Production due to Traditional Practice Adopted.
Farming Situation	Upland Rainfed
Production System and Thematic Area	Line Sowing & Natural Farming
Farmers' Practices (T1)	T1- Traditional Practice
Details of Technologies Selected For Assessment (T2)	T2 - Full Package & Practices as Recommended by IGKVV, Raipur
Details of Technologies Selected For Assessment (T3)	T3 - Seed treatment with Beejamrit + Soil application of Ghanjeevamrit @250kg/ha + Jeevamrit @ 500 lit / ha /+Spray of Neemastra / Bramhastra
No. of Farmers	07
Area of Each Trial	0.4
No of Trials	07
Performance Indicators Observation to be Recorded	No. of Tillers / Plants , No of Finger / Ear head , Yield qt /ha & B:C
Cost of Input & Total Cost	Rs 2000/- per trial & Rs 14000/-
Name of Responsible Scientist	Mr. H.S.Tomar, SMS, Agronomy

OFT 2: Assessment of IFS Model for Small and Marginal Farmers

Season & Year	Kharif & Rabi, 2024
Problem	Low Income from Existing Farming System
Thematic Area	IFS
Name of Technology	IFS Model
Farmers' Practice (T ₁)	Mono Cropping, Poor Management of available Resources
Recom. Practice (T ₂)	Crop – Rice – Greengram / Blackream/Sesame Veg. – Brinjal – Bittergourd - Ashgourd (Badi) Fruit plant – Papaya (10 plant / Badi) Poultry – Kadaknath (25 chicks / unit) Goatry – Local breed (Care & Management)
Observation to be Recorded	Annual Income, Yield q/ha and B:C ratio
No. of Trials (Unit)	05
Cost of Input & Total Cost	Rs 5000/- per trial & Rs 25000/-
Name of Responsible Scientist	H.S.Tomar, SMS, Agronomy

OFT 3: Assessment of Indigenous Disease Management Practice in Rice

Season & Year	<i>Kharif, 2024</i>
Problem	Yield loss due to Blast Diseases
Thematic Area	ITK
Name of Technology	ITK Plant Protection Technology
Source of Technology	Traditional knowledge of Farmers (Dist. – Sukma)
Farmers' Practice (T ₁)	No practices (at identify village)
Traditional Practice (T ₂)	Application of <i>Gagda</i> leaf, <i>Vana tulsi</i> and <i>Tikhur</i> leaves (25kg/ha) after 25-30 days of Transplanting
Observation to be Recorded	No. of infected plant / m ² , Yield q/ha and B:C ratio
No. of trials (Replication)	05
Area	0.20 ha
Cost of input & Total cost	Rs 2000/- per trial & Rs 10000/-
Name of Responsible Scientist	Mr. R.P.Kashyap, SMS, P.Pathology

OFT 4: Assessment of Brinjal var. Kasi Uttam

Season & Year	<i>Rabi, 2024</i>
Problem	Wilting is major problem in brinjal cultivated area in district
Thematic Area	IDM
Name of Technology	Disease management
Source of Technology	IIVR, Varanasi
Farmers' Practice (T ₁)	Cultivation of local varieties
Traditional Practice (T ₂)	Brinjal var. Kasi Uttam Fruit colour light purple, average weight 250g. Very soft flesh, prone to logging under high moisture condition, resistant to wilt disease
Observation to be Recorded	Disease plant /m, Yield q/ha and B:C ratio
No. of Trials (Replication)	05
Area	0.20 ha/trial
Cost of input & Total cost	Rs 2000/- per trial & Rs 10000/-
Name of Responsible Scientist	Mr. R. P. Kashyap, SMS, P. Pathology

OFT 5: Assessment of Dibbler for Line Sowing of Pigeonpea

Season & Year	Kharif, 2024
Problem Diagnosed	Sowing of seed by broadcasting includes excess seeds, uneven seed distribution and improper depth of sowing caused overall yield decreases.

Thematic Area	Farm Mechanization
Name of Technology	Dibbler
Source of Technology	IGKV (2021)
Farmers' Practice (T ₁)	Sowing of seed manually by broadcasting
Recommended Practice (T ₂)	Line sowing with Dibbler
Observation to be Recorded	Cultivation cost, field capacity, field efficiency, yield, B:C ratio.
No. of Trials (Replication)	05
Area of Each Trial	0.20 ha
Input Cost & Total Cost	Rs 2000/- & Rs 10000/-
Name of Responsible Scientist	Dr. Parmanand, SMS, Agril. Engg.

OFT 6: Assessment of Zero till Seed cum Fertilizer drill for Line Sowing of Mustard

Season & Year	Rabi, 2024-25
Problem Diagnosed	Delay in Sowing due to not availability of optimum field condition for preparation. There is loss of fertilizer and seeds in broadcasting technique.
Thematic Area	Farm Mechanization
Name of Technology	Zero till Seed cum Fertilizer drill
Source of Technology	IGKV (2008)
Farmers' Practice (T ₁)	Sowing of seed manually by broadcasting
Recommended Practice (T ₂)	Line sowing with Zero till Seed cum Fertilizer drill
Observation To Be Recorded	Cultivation cost, Field capacity, Field efficiency, Yield, B:C ratio.
No. of Trials (Replication)	05
Area of Each Trial	0.20 ha
Input Cost & Total Cost	Rs1500/- per trial & Rs 7500/-
Name of Responsible Scientist	Dr. Parmanand, SMS, Agril. Engg.

OFT 7: Assessment of Chemical Control measures of Fall Army Worm in Maize

Crop/Enterprise	Maize
Season & Year	Kharif, 2024
Problem Diagnosed	Low yield of Maize due to more Infestation of Fall Army Worm, <i>Spodoptera frugiperda</i>
Thematic Area	IPM
T1- Farmers' Practices (T1)	No use of Chemicals
T2-Recommended Practice	- Seed treatment (Cyantraniliprole 19.8% + Thiamethoxam 19.8 FS) 6ml/kg seed will be effective for 15-20 days - Two spray of Chlorantraniliprole 18.5 %SC@ 0.3 ml/litre of water
Observation to be Recorded	Larvae present /10 plants, leaf damage /10 plants yield, B:C ratio.
Source Of Technology	NIBSM, Raipur (2019)
No. of Trials	05
Area of Farmers	0.20 ha/trial
Cost of input & Total cost	Rs 2000/- per trial & Rs 10000/-

Name of Responsible Scientist	Dr. Yogesh Kumar Sidar, SMS, Entomology

OFT 8: Assessment of Chemical control measures of Brinjal Shoot and Fruit Borer

Crop/Enterprise	Brinjal
Season & Year	Rabi, 2024
Problem diagnosed	Yield loss due to more Infestation of Brinjal Shoot and Fruit Borer (<i>Leucinodes orbonalis</i>)
Thematic area	Insect pest management
T1- Farmers practices (T1)	No use of chemicals
T2-Recommended Practice	• Pre transplanting application of Imidacloprid 200 SL @ 0.3ml/lit • Clipping of infested shoots • Two spray of NSKE 4%
Observation to be recorded	No. of infected shoots/10 plants, No. of infected fruits/10 plants, yield, B:C ratio.
Source of Technology	IIVR, Varanasi (2020)
No. of Trials	05
Area of farmers	0.20 ha/Trial
Cost of input & Total cost	1500/Trial & 7500
Name of Responsible Scientist	Dr. Yogesh Kumar Sidar, SMS, Entomology

OFT 9: Assessment of Advance grow-out culture practices of IMC in Culture pond

Season & Year	All Season, 2024-25
Problem	Low Income from Existing Farming System
Thematic Area	Freshwater Pond Culture
Name & Source of Technology	Composite Fish Culture; ICAR, 1970
Farmers' Practice (T ₀)	Stocking of IMC in random ratio, no Supplementary Feeding
Recom. Practice (T ₁)	Culture species – Fingerlings of IMC and EC Stocking density – 10000/ha Input – Stocking of IMC in Correct ratio & Regular feeding
Recom. Practice (T ₂)	Culture Species – Fingerlings of IMC and EC Stocking Density – 10000/ha Input – Proper Liming, Manuring, Fertilization, Eradication of Unwanted Weeds, Fishes, Frogs & Aquatic Insects, Repeated Netting, Regular Feeding and Health Management
Observation to be Recorded	Annual Fish Production, Weight Gain, SGR, FCR, PER, B:C ratio
No. of Trials (Unit)	03
Area of farmers	0.40 ha/Trial
Cost of input & Total cost	Rs 15000/- Trial & Rs 45000/-

Name of Responsible Scientist	Dr Sanjay Singh Rathore, PA, Fisheries

OFT 10: Assessment of Growth performance of stunted Indian Major Carp Fingerlings Assessment

Season & Year	All Season, 2024-25
Problem	Low Income of farmers due to lack of advancement
Thematic Area	Freshwater Pond Culture
Name & Source of Technology	Polyculture; China
Farmers’ Practice (T ₀)	Stocking of Normal Cultured IMC Fingerlings
Recom. Practice (T ₁)	Culture Species – Fingerlings of IMC Stocking Density – 10000/ha
Recom. Practice (T ₂)	Culture Species – Fingerlings of IMC Stocking Density – 50000/ha
Observation to be Recorded	Weight Gain, SGR, FCR, PER, B:C ratio
No. of Trials (Unit)	03
Area of farmers	0.40 ha/Trial
Cost of Input & Total cost	15000/Trial & 45000
Name of Responsible Scientist	Dr Sanjay Singh Rathore, PA, Fisheries

Details of OFT on Enterprises
Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Assessment of Finger Millets(Ragi) under Natural Farming Practice	Finger Millets (Ragi), Vareity : Indira Ragi-1/Kharif-2024		7	0.4	Seed, Biofertilizers (PSB &Trichoderma), NPK (19:19:19)			
Assessment of IFS Model for Small and Marginal Farmers		Kharif & Rabi, 2024						

Frontline Demonstrations

FLD1: Demonstration of Rice var. Indira Aerobic -1 under Upland Condition

Season & Year	Kharif, 2024
Problem	Cultivation of old Rice Varieties caused Poor Yield
Thematic Area	Crop Management
Name of Technology	Varietal Replacement
Source of Technology	IGKV, Raipur
Farmers' Practice (T ₁)	Cultivation of old Rice Varieties MTU-1001, MTU – 1010
Recom. Practice (T ₂)	Rice var. Indira Aerobic -1 Medium thin grains, Suitable for Upland Condition Resistant to Neck Blast Disease Duration – 105 -120 days, Yield – 45-50 q/ha
Observation to be Recorded	No. of Tillers/Hill, Yield q/ha and B:C ratio
No. of Demo., Area & Total Cost	12, Area 5 ha. & Rs 18000/-
Name of Responsible Scientist	Mr. H.S.Tomar, SMS, Agronomy

FLD 2: Demonstration of Mustard under Utera Cultivation in low land Rice Areas

Crop	MUSTARD	
Thematic Area	Resource Conservation Technology	
Technology For Demonstration	MUSTARD var. CG SARSON/BASTAR SARSON Seed treatment with PSB and Trichoderma @ 5g/kg seed, Foliar application of NPK (19:19:19) at 30-35 DAS and at 55-60 DAS	
Critical Inputs	Seed, Biofertilizers (PSB &Trichoderma), NPK (19:19:19)	
Season and Year	Rabi 2024-25	
Area (ha)	5	
No. of Farmers / Demo.	12	
Data on Parameter (In Relation To Technology Demonstrated)	Demonstration -	Plant height, No. of Capsule/plant, Yield (q/ha), Cost of Cultivation
	Local Check/ Farmer	
Parameters Identified	Plant Growth, Production, Economics	
Cost of Input	Rs 2000/-	
Total Cost	Rs 24000/-	
Name of Responsible Scientist	Mr. H.S.Tomar, SMS, Agronomy	

FLD 3: Demonstration of Management Practices to control Soil Borne Disease of Pigeonpea

Season & Year	Kharif, 2024
Problem	Soil Borne Disease Major Problem in Pigeon Pea
Thematic Area	IDM

Name of Technology	Disease Management
Source of Technology	KVK, Manipur
Farmers' Practice (T ₁)	No Practices
Recom. Practice (T ₂)	- Seed treatment with Trichoderma @ 6-10kg/ha - One kg of Trichoderma formulation mix with 100kg of FYM then broadcasted after 7 days.
Observation to be Recorded	Disease plant /m, Yield q/ha and B:C ratio
No. of Demo.	12
Area	0.4 ha/demo
Cost of input & Total cost	Rs1000/- demo & Rs12000/-
Name of Responsible Scientist	Mr. R. P. Kashyap, SMS, P. Pathology

FLD 4: Demonstration of Disease Management for Leaf Curl in Chilli

Season & Year	<i>Rabi, 2024</i>
Problem	Yield loss due to Chilli Leaf Curl Disease
Thematic Area	IDM
Name of Technology	Disease Management
Source of Technology	KVK, Sabour, Bhagalpur (2020)
Farmers' Practice (T ₁)	No Practices
Recom. Practice (T ₂)	Acetamiprid 20% SP @ 1.0gm/l of water
Observation to be Recorded	Leaf curl index, Yield q/ha and B:C ratio
No. of Trials (Replication)	10
Area	0.4 ha/trial
Cost of input & Total cost	Rs 1000/- per trial & Rs 10000/-
Name of Responsible Scientist	Mr. R. P. Kashyap, SMS, P. Pathology

FLD 5: Demonstration of Seed Cum Fertilizer Drill for Line Sowing of Paddy

Crop	Paddy
Season & Year	Kharif, 2024
Thematic Area	Farm Mechanization
Technology for Demonstration	Seed cum fertilizer drill, Row to Row spacing- 22cm & Adjustable, No. of Rows Available 9, Fertilizer and Seed Metering -Fluted Roller.
Critical Inputs	Seed cum fertilizer drill
Source & Year of Technology	IGKV (2001)
Area (ha)	5
No. of Farmers / Demonstration	12
Data on Parameters in Relation to Technology Demonstration	Demonstration: Seed cum fertilizer drill

	Farmers Practice: Broadcasting
Parameters Identified	Cultivation cost, Field capacity, Field efficiency, Agronomical parameters, Yield and B:C Ratio.
Input Cost & Total Cost	Rs 1000/- & Rs 12000/-
Name of Responsible Scientist	Dr. Parmanand, SMS, Agril. Engg.

FLD 6: Demonstration of Inclined Plate Planter for Line Sowing of Maize

Crop	Maize
Season & Year	Rabi, 2024-25
Thematic Area	Farm Mechanization
Technology for Demonstration	Inclined plate planter, R-R spacing- 60 cm & adjustable, No. of rows available 3,
Critical Inputs	Inclined plate planter
Area (ha)	5
No. Demonstration	12
Data on Parameters in Relation to Technology Demonstration	Demonstration: Inclined plate planter Farmers Practice: Manual dibbling
Parameters Identified	Cultivation cost, Energy MJ/ha, Field capacity, Field efficiency, Agronomical parameters, Yield and B:C Ratio.
Input Cost & Total Cost	Rs 1000/- & Rs 12000/-
Name of Responsible Scientist	Dr. Parmanand, SMS, Agril. Engg.

FLD 7: Demonstration of Management practices for control of Rice Leaf Folder

Crop/Enterprise	Rice
Season & Year	<i>Kharif</i> , 2024
Problem Diagnosed	More infestation in Bastar region
Thematic Area	Insect pest management
T1- Farmers Practices (T1)	No Practices
T2-Recommended Practice	- Set up Bird perches 40-50/ha of insectivorous Birds at vegetative phase of crop - Two spray of chloropyriphos 20EC 1250ml./ha
Observation to be Recorded	No. of larvae/10 hills, Percent of leaf damage, yield, B:C ratio.
Source of Technology	TNAU
No. of Trials	10
Area of Farmers	0.40 ha/trial
Critical Input & Total Cost	Seeds & Chemicals & Rs 15000/-
Name of Responsible Scientist	Dr. Yogesh Kumar Sidar, SMS, Entomology

FLD 8: Demonstration of Chemical Control of Chilli Thrips

Crop/Enterprise	Chilli
Season & Year	<i>Rabi</i> , 2024
Problem diagnosed	Yield loss due to Chilli Thrips
Thematic area	Insect Pest Management
T1- Farmers' practices	No Practices
T2-Recommended Practice	- Seed treatment of Imidacloprid 70 WS @ 7g/kg - Spray Imidacloprid 17.8 SL 0.3 ml/l of water
Observation to be recorded	Whole plant or branch will be shaken gently over a piece of white paper (A4 size), yield, B:C ratio.
Source of Technology	University of Agricultural and Horticultural Science, Shivamogga, Karnataka (2018)
No. of Trials	10
Area of farmers	0.40 ha
Critical input & Total Cost	Seeds & Chemicals & 15000
Name of Responsible Scientist	Dr. Yogesh Kumar Sidar, SMS, Entomology

FLD 9: Demonstration of Feed Management in Carp Culture

Season & Year	All season, 2024
Problem	Fish growth is deprived due to a lack of knowledge of Fish Nutrition
Thematic Area	Fish Feed Management
Name of Technology	Fish Nutrition
Farmers' Practice (T ₀)	Feeding the Fishes with unknown Protein % in Fish Feed
Recom. Practice (T ₁)	Feeding the Fish with Plant-based Protein Ingredients
Recom. Practice (T ₂)	Feeding the Fish with Animal-based Protein Ingredients
Observation to be Recorded	Fish Growth, Weight gain, SGR, FCR, PER, B:C ratio
No. of Trials (Unit)	03
Area of farmers	0.40 ha/Trial
Cost of input & Total cost	Rs 12000/- & Rs 36000/-
Name of Responsible Scientist	Dr Sanjay Singh Rathore, PA, Fisheries

FLD 10: Demonstration of Polyculture of Exotic Carps

Season & Year	All Season, 2024
Problem	Low Income of Farmers due to lack of Technical Knowledge
Thematic Area	Polyculture of Exotic Carps
Name & Source of Technology	Polyculture; China
Farmers' Practice (T ₀)	Monoculture, Poor Management of Available Resources

Recom. Practice (T ₁)	Stocking Density: 10000 fingerlings/ha
Recom. Practice (T ₂)	Stocking Density: 20000 fingerlings/ha
Observation to be Recorded	Annual Fish Production, Weight gain, SGR, FCR, PER, B:C ratio
No. of Trials (Unit)	03
Area of farmers	0.40 ha/Trial
Cost of input & Total cost	Rs 13000/- & Rs 39000/-
Name of Responsible Scientist	Dr Sanjay Singh Rathore, PA, Fisheries

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6	Jan-Dec	420
2	Farmers Training	28	Jan-Dec	1000
3	Media coverage	24	Jan-Dec	1500
4	Training for extension functionaries	35	Jan-Dec	2200

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Demonstration of Rice var. Indira Aerobic -1 under Upland Condition	Rice var. Indira Aerobic-1	Kharif, 2024	4	5 ha.	Seed, Biofertilizers (PSB & Trichoderma), NPK (19:19:19)	Cultivation cost, Field capacity, Field efficiency, Agronomical parameters, Yield and B:C Ratio	Plant height, No. of Capsule/plant, Yield (q/ha), Cost of Cultivation	
Demonstration of Mustard under Utera Cultivation in low land Rice Areas	MUSTARD	Rabi 2024-25	10	5	Seed, Biofertilizers (PSB & Trichoderma), NPK (19:19:19)	Cultivation cost, Field capacity, Field efficiency, Agronomical parameters, Yield and B:C Ratio	Plant height, No. of Capsule/plant, Yield (q/ha), Cost of Cultivation	
Demonstration of Management Practices to control Soil Borne Disease of Pigeonpea	Pigeon Pea	Kharif, 2024	15	0.4 ha/demon	Seeds & Chemicals	Cultivation cost, Field capacity, Field efficiency, Agronomical parameters, Yield and B:C Ratio	Disease plant /m, Yield q/ha and B:C ratio	
Demonstration of Disease Management for Leaf Curl in Chilli	Chilli	Rabi, 2024	3	0.4 ha/trial	Seeds & Chemicals	Cultivation cost, Field capacity, Field efficiency, Agronomical parameters, Yield and B:C Ratio	Leaf curl index, Yield q/ha and B:C ratio	
Demonstration of Seed Cum Fertilizer Drill for Line	Paddy	Kharif, 2024	4	5	Seeds & Chemicals	Cultivation cost, Field capacity, Field efficiency,	Cultivation cost, Field capacity, Field efficiency, Agronomical parameters, Yield and	

Sowing of Paddy						Agronomical parameters, Yield and B:C Ratio	B:C Ratio
Demonstration of Inclined Plate Planter for Line Sowing of Maize	Maize	Rabi, 2024-25	4	5	Seeds & Chemicals	Cultivation cost, Field capacity, Field efficiency, Agronomical parameters, Yield and B:C Ratio	Cultivation cost, Field capacity, Field efficiency, Agronomical parameters, Yield and B:C Ratio
FLD – 7 Demonstration of Management practices for control of Rice Leaf Folder	Rice	Kharif, 2024	3	0.40 ha/trial	Seeds & Chemicals	Cultivation cost, Field capacity, Field efficiency, Agronomical parameters, Yield and B:C Ratio	Yield of crop production
FLD – 8 Demonstration of Chemical Control of Chilli Thrips	Chilli	Rabi, 2024	3	0.40 ha	Seeds & Chemicals	Cultivation cost, Field capacity, Field efficiency, Agronomical parameters, Yield and B:C Ratio	Yield of crop production
Demonstration of Feed Management in Carp Culture	Carp Culture	All season, 2024	4	0.40 ha/Trial	Fish Seeds	Fish production & B:C Ratio	Fish Growth, Weight gain, SGR, FCR, PER, B:C ratio
Demonstration of Polyculture of Exotic Carps	Exotic Carps	All season, 2024	3	0.40 ha/Trial	Fish Seeds	Fish production & B:C Ratio	Annual Fish Production, Weight gain, SGR, FCR, PER, B:C ratio

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/ breed/Species /others	No. of farmers	No. of Units/ area	Critical inputs	Performance parameters/ indicators	Data on parameter in relation to technology demonstrated	
						Demo.	Local check

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Sesame	Varietal improvement	HYV+Line sowing+IPM	Seed & Pesticide	2024-25	20	50	
2	Mustard	Varietal improvement	HYV+Line sowing+IPM	Seed & Pesticide	2024-25	20	50	

[illegible]

[illegible]

B) OFF Campus

[illegible]

XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs									
Sheep and goat rearing									
TOTAL									
(C) Extension Personnel									
TOTAL	35	47						1055	1055

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
		Weed Management	3	5	9	14	14	30	60	60
		Water Management	3	2	4	06	15	29	50	50
		Nutrient Management	3	3	7	10	15	35	60	60
		Crop Production	6	15	25	40	60	75	175	175
Horticulture										
Livestock production										
Home Science										
Plant Protection		IPM In Cereal &Vegetable crop	15	30	50	80	120	150	350	350
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science		Soil Test								

2. Off Campus

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
		Crop production	2	3	6	9	21	30	60	60
		Weed	2	5	5	10	25	25	60	60

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

[illegible]

Training Programme for Extension Functionaries:

[illegible]

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Science										

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration	Client PF/RY/EF	No. of courses	No. of participants							Sponsoring agency
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1													
2													

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	7	150	50	200	7	3	10	157	53	210
Kisan Mela	2	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Kisan Ghosthi	15	176	112	288	7	5	12	183	117	300
Exhibition	2	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Film Show	2	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Method Demonstrations	2	16	44	60				16	44	60
Farmers Seminar	2	50	5	55	10	6	16	60	11	71
Workshop	12	-	-	-	250	60	310	250	60	310
Group meetings	12	190	170	360	250	60	310	250	60	670
Lectures delivered as resource persons	25	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Newspaper coverage	12	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Radio talks	2	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
TV talks	2	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Popular articles	12	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Extension Literature	4	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Advisory Services	50	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Scientific visit to farmers field	50	400	150	550	20	5	25	420	155	575
Farmers visit to KVK	500	475	125	600	-	-	-	475	125	600
Diagnostic visits	25	300	75	375	15	5	20	315	80	395
Exposure visits	2	25	25	50	4	2	6	29	27	56
Ex-trainees Sammelan	2	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Soil health Camp	2	50	20	70	7	3	10	57	23	80
Animal Health Camp	-	-	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	-	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	12	400	200	600	120	25	145	520	225	745

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl. specify)										
Total	754	2182	956	3138	683	171	854	2865	1127	3992

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Finger millet	Indira Ragi-1, VL-379	100
OILSEEDS	Sesame	Jawahar Til-11/14	15
	Mustard	Giriraj	15
PULSES	Pigeon Pea	Chattishgarh Arhar -1	20
	Black Gram	Indira Urd Pratham	10
	Green Gram	IPM-205-7(Virat)	10
VEGETABLES	-	-	-
	-	-	-
	-	-	-
	-	-	-
FLOWER CROPS	-	-	-
	-	-	-
OTHERS (Specify)	-	-	-
	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES				
Others (Specify)				

Literature to be Developed/Published**KVK News Letter**

Date of start	Periodicity	Number of copies to be published

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			
2			
3			

Success stories/Case studies identified for development as a case:(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Line Deparment

2	Rural Youth	Line Department,ex trainees
3	In-service personnel	Line Department
4	methodology for identifying OFTs/FLDs	PRA,interface,line department
5	Matrix ranking	PRA,interface,line department

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Pujaripal	Chhindgarh	25
2	Chipurpal	Chhindgarh	20

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment:.....

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	NIL		

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	214	214	5	244560
Water Samples	-	-	-	-
Total	-	-	-	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district

Yes/No

Name of Programme	Nature of linkage
Research,krishak Vaigyanik Paricharcha	DDA

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Establishment of Mushroom Unit	NHM

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
March 2023	Demonstration of agriculture Drone for applying of Insecticide at KVK Farm & Farmers field	20 ha.

Planning for Crop Cafeteria

Total Area of Crop cafeteria: _____ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Sesame	Khaif2024	Jawahar Til-11/14	Line sowing + RDF	1000
Mustard	Rabi2024	Giriraj	Line sowing + RDF	1000
Pigeon Pea	Kharif 2024	Chattishgarh Arhar -1	Line sowing + RDF	1000
Black Gram	Khaif 2024	Indira Urd Pratham	Line sowing + RDF	1000
Green Gram	Rabi 2024	IPM-205-7(Virat)	Line sowing + RDF	1000

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Mushroom Unit	Constructed	50	To be start
Goat Unit	Constructed	50	To be start
Soil Test Unit	Constructed	50	To be start
Vermi Compost Unit	Constructed	60	To be start
Harbal Gulal Unit	Constructed	50	To be start
Poultry Unit	Constructed	50	To be start
Fish Farming unit	Construction is going on	10000	-
Bater Unit(Quail Unit)	Constructed	50	To be start

ANNUAL ACTION PLAN 2023

KVK Surguja (Ambikapur)

Year of sanction: 1995

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Shri Rajesh Chouksey	-	8319122254/ 73540-15625	kvk.surguja@igkv.ac.in

1.2 Staff Position on (31th Dec. 2023)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	I/C Programme Coordinator	Dr. Rajesh Chouksey	Senior Scientist & Head	Soil Science	15600-39100 Current Basic 80300	06/09/2012	06/09/2012	73540-15625	rajeshchouksey1981@gmail.com	
2	Subject Matter Specialist	Shri. Pandu Ram Paikra	Subject Matter Specialist (Agronomy)	Agronomy	15600-39100 Current Basic 71100	12/11/2014	07/07/2023	99773-62776	paikra.pandu16@gmail.com	
3	Subject Matter Specialist									
4	Subject Matter Specialist	Shri. Surya Prakash Gupta	Subject Matter Specialist (Entomology)	Entomology	15600-39100 Current Basic 65000	30/10/2018	14/09/2023	94061-66385	surya22gupta@gmail.com	
5	Subject Matter Specialist									
6	Subject Matter Specialist									
7	Subject Matter Specialist									
8	Programme Assistant	Shri. Virendra Kumar	Programme Assistant (Entomology)	Entomology	9300-34800 Current Basic 35400	29/09/2023	29/09/2023	62630-42800	veer787970@gmail.com	
9	Computer Programmer/ Programme Assistant	Shri. Amit Prakash Yadav	Programme Assistant (Computer)	Computer	9300-34800 Current Basic 51600	10/09/2012	24/10/2019	94063-88816	amitoap@gmail.com	
10	Farm Manager									
11	Assistant									
12	Jr. Stenographer / Comp. Operator	Shri. Kalesar Ram	AG-II (Contractual)	Accounts	Fix Pay 23350	25/07/2023	25/07/2023	97536-49713	kalesarram@gmail.com	
13	Driver	Shri. Mahendra Prasad Kushwaha	Driver	-	5200-20200 Current Basic 27000	30/03/2013	30/03/2013	84638-78346		
14	Driver	Shri. Bishun	Driver	-	5200-20200 Current Basic 27000	01/04/2013	08/10/2020	87706-00365		

		Ram			rrrent Basic 27000					
15	Supporting staff	Shri. Arjun Prasad	Peon	-	4750-7440 Current Basic 25800	07/10/2008	29/06/2013	92945-12250		
16	Supporting staff	Shri. Susheel Kumar	Peon (Contractual)	-	Fix Pay 14400	25/07/2023	25/07/2023	93407-95620	susheelkumarminz08@gmail.com	

1.3 Total land with KVK (in ha): 15.84

S. No.	Item	Area (ha)
1	Under Buildings	6.34
2	Under Demonstration Units	1.00
3	Under Crops	7.20
4	Orchard/Agro-forestry	1.30
5	Others (specify)	-
Total		15.84

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR		340				
2	Farmers Hostel	ICAR		510				
3	Staff Quarters (6)	ICAR		-				
4	Demonstration Units (2)	2021		650				
5	Fencing			8 hectare at farm + 5.4 ha. Area wall fenced under colony				
6	Rain Water harvesting system			-				
7	Threshing floor			225				
8	Farm godown			-				

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2013	695000	1700 hours	Working
Motor Cycle	2007	38900	90855	working
Bolero(Jeep)	24/06/2017	738924	111994	working
Massy furgusion	2016	547450	1600hours	Working

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2016	95281	working
Xerox Machine	-	-	-
Generator	-	-	-
Video Camera	-	-	-
Camera	2019	49879	working
Computer	2019	98040	working

Computer	2019	89480	working
Computer	2019	87790	working
Laser Printer 1020	2012	6900	working
Laser Printer HP 1015	2014	4000	Not working
UPS 600 VA	-	-	-
Stabilizer 2 KVA	-	-	-
Stabilizer	-	-	-
Inverter 600 VA (2)	-	-	-
Inverter Battery (2)	-	-	-

1.5.(A). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1	15/05/2024

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	Rice – Fallow	Line sowing of rice with recommended dose of fertilizer.
2	Pigeon pea – Fallow	Proper Spacing with recommended dose of fertilizer. Line sowing of pigeon pea & seed Inoculate with Rhizobium culture.
3	Maize - fallow	Line sowing & weed management through Atrazin and other herbicides

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	Northern Hills	Surguja district is situated at 22.94° N latitude and 83.16° E longitude with elevation 590 m above the mean sea level, comes under Northern hills agro-climatic zone of Chhattisgarh. The Surguja district covers an area of 573200 hectare, main rivers of Surguja district are Kanhar, Moran, Rehan and Mahan. Physiographically, the district is a part of Northern Hills and characterized by undulating topography with high hills, dissected plateaus, steep slopes and scarps. The Basaltic terrain is characterized by highly undulating topography with steep hills and plateau tops. Major soil types of study area are Entisols (Dand-gravelly), Inceptisols (Chawar-sandy loam), Alfisols (Gadar Chawar – clay loam) and Vertisols (Bahera – clayey).

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-2 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-3 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

AES-4 (name)

Strength	Weakness	Opportunities	Threats
•	•	•	•

Add AES if needed

Land Use Pattern

Particulars	Area “000 ha”
Total Geographical area	375.104
Forest	114.518
Waste Land	11.345
Other than cultivated area	29.419
Cultivable waste and alkaline land	
Pastures	44.553
Bushes	
Current Fallow	
Other Fallow	
Agricultural Land	11.345508
Area Sown	227.031
Kharif	161.026
Rabi	66. 005
Zaid	
Cropping Intensity	137.3%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	11100
2	Well	4018
3	Tube well	350
4	Ponds	5496
5	Others	20036

Soil types

S. No.	Soil type	Area “000 ha”
1	Bhanta	66.632
2	Matasi	33.666
3	Dorsa	38.930
4	Kanhaar	31.757
5	Kachhaar	5.372

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (000ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	81.50	1886.7	23.15
2	Maize	18.21	430.7	23.65
3	Pigeon pea	10.11	94.5	9.35
4	Urad+Moong	9.97	78.93	16.79
5	Groundnut	7.32	116.02	15.85
6	Sesamum	1.03	04.2	4.08
7	Wheat	12.01	294.84	24.55
8	Chickpea	5.60	52.92	9.45
9	Field pea	4.88	35.91	7.35
10	Mustard	13.21	96.50	7.30
11	Sugarcane	2.20	93.64	42.45
12	Vegetables	10.99	150.63	13.70
13	Masoor	4.219	2.700	6.40
14	Kulthi	2.064	1.160	5.62
15	Tiwda	0.232	0.153	6.60
16	Alsi	4.53	2.592	5.72
17	Kusum	0	0	7.75
18	Sunflower	0.044	0.038	8.65

Weather data (Jan, 2023- Dec., 2023)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 23	0.00	25.0	9.4
Feb, 23	0.00	28.7	10.1
Mar, 23	25.20	31.2	15.6
Apr, 23	28.20	34.4	19.3
May, 23	27.80	37.1	21.7
Jun, 23	187.20	38.3	24.3
July, 23	165.00	31.5	23.4
Aug., 23	410.60	28.5	22.1
Sept., 23	241.60	31.1	22.0
Oct. 23	84.60	30.0	17.0
Nov. 23	1.60	28.6	13.8
Dec. 23	24.80	24.0	10.4

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	29647	46.866 MT.	5.589 milk kg
Buffalo	9463	34.16 MT.	4.661milk kg
Sheep			
<i>Crossbred/ Indigenous</i>	462	NIL - MT wool	NIL- kg
Goats	288535	14.120 MT	15.988 meet kg
Pigs <i>Crossbred/ Indigenous</i>	12427	0.256	28.271 meet kg
Rabbits	0	0	0
Poultry			
Hens	415218	288.230 Lakh eggs	58.80 eggs/ bird/yr
Turkey and others	0	0	0
Category	Area	Production	Productivity
Fish	...0..... (ha)	...0.....Q/ month	0..... Q/ ha.

Details of Operational area / Villages (2024)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Surajpur	Surajpur	Judwani	Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
2	Surajpur	Surajpur	Kaskela	Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea,

						Mustard and vegetables
3	Surajpur	Surajpur	Karwa	Rice, Maize, Pigeon pea, Black gram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Black gram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
4	Surajpur	Surajpur	Parsapara	Rice, Maize, Pigeon pea, Black gram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
5	Ambikapur	Ambikapur	Aamgaon	Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
6	Lakhanpur	Lakhanpur	Umrouli	Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
7	Lakhanpur	Lakhanpur	Jaiga	Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and

						vegetables
8	Lakhanpur	Lakhanpur	Putra	Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
9	Pratappur	Pratappur	Kerta	Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
10	Pratappur	Pratappur	Sarhari	Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
11	Bhaiyathan	Bhaiyathan	Banja	Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
12	Ambikapur	Ambikapur	Khairbar	Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables

13	Ambikapur	Ambikapur	Narmadapara	Rice, Maize, Pigeon pea, Black gram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
14	Udaypur	Udaypur	Keshma	Rice, Maize, Pigeon pea, Black gram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
15	Udaypur	Udaypur	Shayar	Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
16	Udaipur	Udaipur	Kumdewa	Rice	Low yield and income, high weed infestation, low fertility status, disease and pest problem	Improved & high yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables

Priority / Thrust areas

S. No.	Particulars
1.	Improved & high yielding varieties for rice, niger, sesamum, black gram, wheat, field pea & pigeon pea etc.
2.	Integrated Nutrient Management especially in potential crops i.e. Rice, Wheat, Maize, Mustard, Pigeon pea, potato & field pea for increasing their productivity under acidic soils conditions.
3.	Integrated pest management in cereals, pulse & oilseeds
4.	Integrated weed management in upland direct seeded rice, wheat, pulses, oil seeds, vegetables, maize and

	sugarcane
5.	Establishment of Integrated farming system model at marginal & small farmers for getting higher profitability & sustainability
6.	Development of fruit and vegetable based land use system for increasing cropping intensity and profitability..
7.	Nutritional security for tribal's
8.	Value addition for income and employment generation

TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
10	70	05	175

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
60	2400	60	3200

Seed Production (Qtl.)	Planting material (Nos.)
1000	70000

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterp rise	Identifie d Problem	Interventions					
				Title of OFT if any	Title e of FLD if any	Title of Training if any	Title of training for extensi on person nel if any	Extension activities	Supply of seeds, planting materials etc.
1	Promotion of soil test based nutrient managem ent in maize	Maize	Low yield due to imbalanc ed use of fertilizers	Assessment of Soil Test based Nutrient Manageme nt on yield of maize	-	Nutrient manage ment in maize crop	-	Training and demonstrat ion	Seed and fertilizer
2	Promotion of liquid nano fertilizers in cereal crops	Paddy	Low yield due to timely unavaila bility and imbalanc ed use of fertilizers	Assessment of effect of Nano Urea on yield of Rice crop	-	Applicati on of nano urea in paddy	-	Training, Demonstrat ion	Seed and fertilizer
3	Promoting technologi es and practices for soil health managem ent	Mustar d	Low yield due to imbalanc ed use of nutrients.	Assessmen t of Soil Test based Nutrient Manageme nt on yield of Mustard	-	Nutrient manage ment in mustard crop	-	Training, Demonstrat ion	Seed and fertilizer
4	Promotio n of natural farming to reducing the chemical fertilizer and pesticides	Finger millet	Applicati on of inorganic fertilizers enhance the cost of cultivatio n	Assessment of Finger millet yield in Natural farming practices	-	Natural farming practices in finger millet	-	Training, Demonstrat ion	Seed
5	Promotio n of herbicide for effective weed managam ent	Groun dnut	Heavy infestatio n of weed causes the yield loss during kharif season	Assessment of weed manageme nt in groundnut	-	Weed manage ment practices in groundn ut	-	Training, Demonstrat ion	Seed and herbicide

6	Promotion of ICM in mustard	Mustard	Poor yield due to conventional practices and late sowing	Assessment of yield maximization of mustard under ICM practices	-	ICM in Cruciferous crop	-	Training, Demonstration	Seed
7	Promotion of heat tolerance variety of wheat	Wheat	Poor yield found now a days due to sudden rise of temperature during grain filling stage	Assessment of heat tolerance variety of wheat	-	Improved production practices of wheat	-	Training, Demonstration	Seed
8	Promotion of IPM technique in potato	Potato	Frequent and enormous use of insecticides possessed the problem of resistance to the pest	Assessment the effectiveness of IPM against major lepidopteron pest in potato based cropping system	-	IPM practices in potato	-	Training, Demonstration	Seed, fertilizer
9	Promotion of integrated pest management in mustard	Mustard	Indiscriminate use of insecticides possessed the problem of resistance to the pest	Integrated pest management against Aphid on Mustard Crop	-	IPM practices in mustard	-	Training, Demonstration	Seed, fertilizer
10	Promotion of integrated pest management in spine gourd	Spine gourd	Indiscriminate use of insecticides possessed the problem of resistance	Integrated pest management against fruit fly on spine gourd.	-	IPM practices in spine gourd	-	Training, Demonstration	Cuttings and

			e to the pest						

Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flowers	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	Maize	-	-	-	-	-	-	-	-	1
Balanced use of fertilizers	Paddy	-	-	-	-	-	-	-	-	1
Integrated Nutrient Management	-	Mustard	-	-	-	-	-	-	-	1
Natural farming	Ragi	-	-	-	-	-	-	-	-	1
Weed management		Groundnut		-	-	-	-	-	-	1
Integrated Crop Management	-	Mustard	-	-	-	-	-	-	-	1
Varietal evaluation	Wheat	-	-	-	-	-	-	-	-	1
Integrated pest management	-	Mustard	-	Potato	Spine gourd	-	-	-	-	3
TOTAL	4	4	0	1	1	0	0	0	0	10

Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of effect of Nano Urea on yield of Rice crop.	
Problem diagnosed	Low yield due to timely unavailability and imbalanced use of fertilizers.	
Farmers' Practices	Fertilizer dose NPK @ 87:46:30 kg/ha	
Details of technologies selected for assessment	T ₁	Recommended dose of fertilizer (RDF 120:60:40 kg/ha)
	T ₂	50% N, 100 % P & K + 2 spray of Nano Nitrogen @ 4ml/liter.
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	21000 Rs.	
Critical input	Seed, fertilizer	

Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of tillers/hill, Yield (q/ha) and Economics.

OFT-2

Crop / Enterprise	Maize	
Title of on farm trial	Assessment of Soil Test based Nutrient Management on yield of Maize	
Problem diagnosed	Low yield due to imbalanced use of fertilizers.	
Farmers' Practices	Fertilizer dose NPK @ 87:46:30 kg/ha	
Details of technologies selectedfor assessment	T ₁	INM based on Soil Test Value
	T ₂	-
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	21000 Rs.	
Critical input	Seed, fertilizer	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Yield (q/ha) and B:C ratio	

OFT-3

Crop / Enterprise	Mustard	
Title of on farm trial	Assessment of Soil Test based Nutrient Management on yield of Mustard.	
Problem diagnosed	Low yield due to imbalanced use of nutrients.	
Farmers' Practices	Fertilizer dose NPK @ 87:46:00 kg/ha.	
Details of technologies selectedfor assessment	T ₁	INM based on Soil Test Value
	T ₂	-
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	14000 Rs.	
Critical input	Seed, fertilizer	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	Yield (q/ha) and B:C ratio	

OFT-4

Crop / Enterprise	Finger millet	
Title of on farm trial	Assessment of Natural Farming on Yield of finger millet	
Problem diagnosed	Low yield due to traditional method.	
Farmers' Practices	Traditional method.	
Details of technologies selectedfor assessment	T ₁	Line sowing (22.5cm) + seed treatment with Beejamrit + Ghanjeevamrit @ 250 kg/ha + Jeevamrit @500 lit./ha twice in a month and weed mulch after weeding at 20 DAS and 40 DAS should be spread within the rows.

	T ₂	-
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	14000 Rs	
Critical input	Seed, Beejamrit, Ghanjeevamrit, Jeevamrit	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Yield attributes, Yield (q/ha) and Economics	

OFT-5

Crop / Enterprise	Groundnut	
Title of on farm trial	Assessment of weed management in groundnut	
Problem diagnosed	Heavy infestation of weed causes the yield loss during kharif season	
Farmers' Practices	Traditional method.	
Details of technologies selected for assessment	T ₁	Application of Imazathapyr @ 100 g a.i./ha at 15-20 DAS/ 2-3 leaf stage of weeds
	T ₂	Sodium acifluorfen 16.5% + clodinafop propargyl 8% EC @ 0.40 kg a.i./ha at 18-20 DAS/2-3 leaf stage of weeds
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	25000 Rs	
Critical input	Seed, herbicide	
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	Yield attributes, Yield (q/ha) and Economics	

OFT-6

Crop / Enterprise	Mustard	
Title of on farm trial	Assessment of yield maximization of mustard under ICM practices	
Problem diagnosed	Poor yield due to conventional practices and late sowing	
Farmers' Practices	Traditional method.	
Details of technologies selected for assessment	T ₁	Timely Sowing in Line (2 nd FN of November) + recommended dose of fertilizer (NPK-100:60:40 kg/ha) and application of Quizalofop-p-ethyl 5% EC @ 50 g a.i./ha after 20-25 DAS.
	T ₂	-
Source of technology	RMD CARS, Ambikapur	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	15500 Rs	
Critical input	Seed and herbicide	
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	Yield attributes, Yield (q/ha) and Economics	

OFT-7

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of heat tolerance variety of wheat	
Problem diagnosed	Poor yield found now a days due to suddenly rise of temperature during grain filling stage	

Farmers' Practices	Conventional practices with GW-273	
Details of technologies selected for assessment	T ₁	Varietal assessment of wheat variety Kanishka with RDF 120:60:40kg N:P:K/ha
	T ₂	-
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	12000 Rs	
Critical input	Seed and herbicide	
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	Yield attributes, Yield (q/ha) and Economics	

OFT-8

Crop / Enterprise	Potato	
Title of on farm trial	Assessment the effectiveness of IPM against major lepidopteron pest in potato based cropping system	
Problem diagnosed	Frequent and enormous use of insecticides possessed the problem of resistance to the pest and reduction of beneficial insect	
Farmers' Practices	Foliar sprays with Chloropyriphos + Cypermethrin 5 %	
Details of technologies selected for assessment	T ₁	<i>Soil application of chloropyriphos 10 G @10 kg/ha + Spray of Spinosad @ 45 SC@ 0.3 ml/L</i>
	T ₂	-
Source of technology	Potato Research Station, Mainpat (C.G.)	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	86000 Rs.	
Critical input	Seed and insecticide	
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	Damage percentage of tubers, Yield, B:C ratio	

OFT-9

Crop / Enterprise	Mustard	
Title of on farm trial	Integrated pest management against Aphid on Mustard Crop	
Problem diagnosed	Indiscriminate use of insecticides possessed the problem of resistance to the pest and reduction of beneficial insect	
Farmers' Practices	Foliar sprays with Chloropyriphos + Cypermethrin 5 % @ 2 ml/l	
Details of technologies selected for assessment	T ₁	Yellow sticky trap + Spray <i>Verticillium lecanii</i> @2.5 – 5.0 kg/ha
	T ₂	-
Source of technology	DPPQS, Faridabad	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	10000 Rs.	
Critical input	Improved Variety Seeds & Yellow sticky trap + Spray <i>Verticillium lecanii</i>	
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation	Yield and Economics	

OFT-10

Crop / Enterprise	Spine gourd	
Title of on farm trial	Integrated pest management against fruit fly on spine gourd	
Problem diagnosed	Indiscriminate use of insecticides possessed the problem of resistance in insect pest and reduction of beneficial insects	
Farmers' Practices	Foliar sprays with imidacloprid 17.8 SL	
Details of technologies selected for assessment	T ₁	Fruit fly trap + Spray Azadirachtin (1500ppm) @ 2-2.5 ml/l
	T ₂	-
Source of technology	RAU, Rajasthan	
Plot size	0.20 ha	
No. of farmers	7	
Total cost	9000 Rs.	
Critical input	Improved variety seeds, Fruit fly trap + Spray Azadirachtin	
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation	Percentage of Damage shoot, Yield, B:C ratio	

Information about Extension OFT:

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

Results / findings

Performance indicators/ parameters	Unit/ details
-	-

Information about Home Science OFT:

Title of on-farm trial:	-
Year/Season:	-
Problem diagnosis:	-
Thematic area: (Focus area in DFI and nutri smart initiatives)	-
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	-

Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
1	Paddy	Nutrient management	Nutrient management with improved variety Vikram TCR	Seed	Kharif, 2024	10	25	Yield (q/ha) and Economics
2	Wheat	Nutrient management	Nutrient management based on recommended dose of Fertilizer (NPK @120:60:40 Kg/ha) (Crop variety- Kanishka)	Seed	Rabi 2024	10	25	Yield (q/ha) and Economics
3	Paddy	Varietal demonstration	Demonstration of high yielding rice variety with RDF 120:60:40 with line transplanting (20x15 cm) Variety – Vikram TCR	Seed	Kharif, 2024	10	25	Yield (q/ha) and Economics
4	Wheat	Weed management	Application of post emergence herbicide Clodinafop-	Seed, herbicide	Rabi 2024	10	25	Yield (q/ha) and Economics

			propargyl 15% + Metsulfuron-methyl 1% @ 64 g a.i./ha at 20-25 DAS					
5	Pigeonpea	Pest management	Effectiveness of Integrated pest Management Chlorantraniliprole 18.5% SC @ 0.4 ml/Lt	Seed and insecticide	Kharif 2024	10	25	Larval count per 10 plant , Yield, B:C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	5	July, September, November, December	150
2	Farmers Training	10	January to December	360
3	Media coverage	6	July, November, January	mass
4	Training for extension functionaries	6	July, September, November, December	240

Details of FLD on Enterprises

Farm Implements

Name of the implement	crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check

*Field efficiency, labour saving etc.

Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

*Milk production, meat production, egg production, reduction in disease incidence etc.

Other Enterprises

Enterprise	Variety/	No. of	No. of	Critical	Performance	Data on parameter

	breed/Species /others	farmers	Units/ area	inputs	parameters/ indicators	in relation to technology demonstrated	
						Demo.	Local check
-	-	-	-	-	-	-	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2024-25)

Sl. No	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Sesamum	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Kharif 2024-25	20	50	Yield, Economics
2	Niger	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Kharif 2024-25	20	50	Yield, Economics
3	Groundnut	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Kharif 2024-25	20	50	Yield, Economics
4	Black gram	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Kharif 2024-25	20	50	Yield, Economics
5	Pigeon pea	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Kharif 2024-25	20	50	Yield, Economics
6	Mustard	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Rabi, 2024-25	20	50	Yield, Economics
7	Field pea	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Rabi, 2024-25	20	50	Yield, Economics
8	Lentil	ICM	High Yielding	Seeds,	Rabi,	20	50	Yield, Economics

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Plants									
Total	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
e) Tuber crops	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
f) Spices									
Production and Management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management	1	1	10	2	12	17	4	21	33
Soil and Water Conservation	1	1	12	-	12	15	4	19	31
Integrated Nutrient Management	2	1	9	0	9	17	4	21	30
Production and use of organic inputs	1	1	11	2	13	10	8	18	31
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	1	1	9	0	9	17	4	21	30
Soil and Water Testing	1	1	9	0	9	17	5	22	31
Total	7	6	60	4	64	93	29	122	186
IV Livestock Production and Management									
Dairy Management	-	-	-	-	-	-	-	-	
Poultry Management	1	1	12	0	12	15	4	19	
Disease Management	-	-	-	-	-	-	-	-	
Feed management	-	-	-	-	-	-	-	-	
Production of quality animal products	-	-	-	-	-	-	-	-	
Total	1	1	12	0	12	15	4	19	

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	
Value addition	-	-	-	-	-	-	-	-	
Income generation activities for empowerment of rural Women	-	-	-	-	-	-	-	-	
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	
Women and child care	-	-	-	-	-	-	-	-	
Total	-	-	-	-	-	-	-	-	
VI Agril. Engineering									
Total									
VII Plant Protection									
Integrated Pest Management	1	1	9	3	12	17	5	22	
Integrated Disease Management	1	1	11	2	13	17	5	22	
Bio-control of pests and diseases	1	1	10	0	10	17	5	22	
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	
Total	3	3	30	5	35	51	15	66	
VIII Fisheries									
Integrated fish farming	-	-	-	-	-	-	-	-	
Total	-	-	-	-	-	-	-	-	
IX Production									
	-								

31

31

31

31

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
of Inputs at site											
Vermi-compost production	1	1	12	0	12	15	0	15	32		
Organic manures production	1	1	10	0	10	15	0	15	30		
Total	2	2	22	0	22	30	0	30	62		
X Capacity Building and Group Dynamics											
Leadership development	-	-	-	-	-	-	-	-	-		-
Group dynamics	-	-	-	-	-	-	-	-	-		-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-		-
Mobilization of social capital	-	-	-	-	-	-	-	-	-		-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-		-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-
Grand Total	-	-	-	-	-	-	-	-	-	-	-
(B) RURAL YOUTH											
Mushroom Production	1	1	2	9		11	4	17		21	32
Bee-keeping	1	1	10	0		10	20	0		20	30
Seed production	1	1	9	0		9	21	-		21	30
Planting material production	-	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-	-
Value addition	1	1	5	5		10	10	10		20	30
Sheep and goat rearing	-	-	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-	-	-	-	-
TOTAL	3	3	26	14		40	55	27		82	122
(C) Extension Personnel											
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-	-
Integrated Pest	2	1	18	6		24	35	5		40	64

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Management											
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	1	1	5	5		10	10	10		20	30
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-
TOTAL	3	2	23	11		34	45	15		60	94

B) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	1	10	0	10	12	8	20	30
Resource Conservation Technologies	1	1	07	2	9	15	6	21	30
Cropping Systems	1	1	11	2	12	10	8	18	30
Crop Diversification	1	1	11	2	13	10	7	17	30
Integrated Farming	1	1	13	0	13	14	4	18	31
Water management									
Seed production	1	1	12	0	12	14	4	18	30
Nursery management									
Integrated Crop Management	1	1	10	3	13	12	6	18	31
Fodder production	1	1	11	2	13	10	8	18	31
Production of organic inputs	1	1	12	0	12	10	8	18	30
Total	9	9	97	11	107	107	59	166	273
II Horticulture									

Mobilization of social capital	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-
(B) RURAL YOUTH									
Production of organic inputs	1	1	11	2	13	10	7	17	30
Sheep and goat rearing									
TOTAL	1	1	11	2	13	10	7	17	30
(C) Extension Personnel	1	1	10	3	13	9	8	17	30
TOTAL	1	1	10	3	13	9	8	17	30

Annexure – I: Experts discipline wise Training Programme

i) Farmers & Farm women

1. On Campus

Month/ Tentative Date	Clientele	Title of the training programme	No./Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
August, December	Weed Management	Weed Management in Rice	2/1	10	5	15	40	5	45	50
July, January	Natural Farming	Components of Natural Farming	2/1	8	2	10	37	13	50	60
July, August	Integrated Crop Management	Integrated Crop Management in Pulse crops	2/1	10	0	10	35	15	50	60
Horticulture										
May , November	Training and Pruning	Training and Pruning technique	2/1	8	2	10	37	13	50	60
July, December	Kitchen Gardening	Production of Vegetables all round the year through backyard cultivation	2/1	10	0	10	35	15	50	60
May, December	Micro	Types of	2/1	8	2	10	37	13	50	60

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
		crops								
Horticulture										
August, November	Hitech Horticulture	Vegetable cultivation with Drip and mulching	1/1	6	4	10	16	4	20	30
July, January	Kitchen Gardening	Production of Vegetables all round the year through backyard cultivation	2/1	2	8	10	30	20	50	60
July, January	Vegetable farming	Methods to enhance flowering and fruiting in different vegetable crops	1/1	6	2	8	14	7	21	29
Home Science	-	-	-	-	-	-	-	-	-	-
Plant Protection										
July	Integrated Pest Management	Integrated Pest Management in Paddy	1/1	6	4	10	16	4	20	30
November, January	Integrated Pest Management Rabi Crops	Integrated Pest Management Rabi Crops	2/1	2	8	10	30	20	50	60
July, January	Apiary Management	Beekeeping : a very good source of additional income	2/1	10	0	10	48	2	50	60
	Agriculture Extension (Capacity Building and Group Dynamics)	-	-	-	-	-	-	-	-	-
Soil Science										
July, November	Soil Testing	Importance of soil testing	1/1	8	0	8	14	7	21	29

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
June	Integrated Nutrient Management	Role of Nutrient management for yield production of crop	1/1	6	2	8	14	8	22	30
August	Organic Farming	Organic farming components	1/1	3	3	8	14	8	22	30

Vocational Training Programme for Rural Youth:

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Jan		Natural Farming	1	10	0	10	16	4	20	30
July		Integrated farming	1	8	-	8	18	4	22	30
Aug		Vermicomposting	1	10	0	10	16	4	20	30
Horticulture										
May		Nursery Management of Horticulture crops	1	10	2	12	16	4	20	32
July, Oct		Protected cultivation of vegetable crops	1	8	2	10	18	2	20	30
Livestock production	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Home Science	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Plant Protection										
Oct,		Beekeeping : a very good source of additional income	1	12	0	12	28	10	38	50
Dec		Lac cultivation	1	8	2	10	18	2	20	30

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
May		Soil Testing	1	10	0	10	20	0	20	30
Nov		Integrated Nutrient Management	1	8	2	10	18	2	20	30
Nov		Organic Farming	1	8	2	10	18	2	20	30

[illegible]

Month/ Tentative Date	Clientele	Title of the training programme	Duration in days	Number of participants						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
	-	-	-	-	-	-	-	-	-	-
Soil Science										
June		Integrated nutrient management in Kharif crops	1	12	1	13	15	4	19	32
September		Integrated nutrient management in Rabi crops	1	9	3	12	12	2	14	26

iii) Sponsored Training Programmes

[illegible]

Extension Activities (including activities of FLD programmes)

[illegible]

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Soil test campaigns	-	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	5	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	5	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	-	-	-	-	-	-	-	-	-	-
Others (pl. specify)	-	-	-	-	-	-	-	-	-	-
Total										

Target for Production and supply of Technological products

SEED MATERIALS			
Category	Crop	Variety	Quantity (qtl.)
CEREALS			
	Rice	Vikram TCR	100
	Wheat	Kanishka	100
OILSEEDS	-	-	-
PULSES			
	Field pea	IPFD- 9-2	200
	Black gram	Indira Urd Pratham	157
	Pigeon pea	C.G. Arhar 2	400
VEGETABLES			
	Spinach	All green	1.5
	Cowpea	Kashi Kanchan	01
FLOWER CROPS	-	-	-
OTHERS (Specify)			
	Turmeric	Roma	80
	Ginger	Suprabha	40
	Fenugreek	RMT-305	1.0

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Pusa Delicious	5000
	Litchi	Ambika Litchi-1, Sahi, Surguja selection	6000
	Mango	Amrapali, Mallika, Dashari, Langda	2000
	Strawberry plants		1000
	Coffee plants		1000
SPICES	--	-	-
VEGETABLES			
	Tomato	Hybrid	10000
	Cabbage	Hybrid	10000
	Chilli	Hybrid	10000
	Cauliflower	Hybrid	10000
	Brinjal	Hybrid	10000

FOREST SPECIES	-	-	-
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)	-	-	-

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	-	-
2	Rhizobium	-	-	-
BIOFERTILIZERS				
1	Vermicompost	-	-	10000
2	NADEP	-	-	-
3		-	-	-
BIO PESTICIDES		-	-	-
1	Dasparni arkl			
2	Pesticides			
Others				
	Elephant Foot Yam	-	-	10
	Water Chestnut	-	-	05
	Vermi-compost	-	-	450
	Vermis	-	-	50

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-	-	-	-
SHEEP AND GOAT	-	-	-	-
POULTRY	-	-	-	-
FISHERIES	-	-	-	-
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
January to March 2024	January to March2024	500
April to June 2024	April to June 2024	500
July to September 2024	July to September 2024	500
October to December 2024	October to December 2024	500

Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	VCD	Natural farming	01
2	VCD	Rice bund cultivation	01
3	VCD	Vermicompost production	01

Success stories/Case studies identified for development as a case:...05 .(no.)

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	Group discussion, Survey, Training, Field visit and Interview
2	Rural Youth	Group discussion, Survey, Training, Awareness programmes
3	In-service personnel	Group discussion, Survey, Training
4	methodology for identifying OFTs/FLDs	Demonstration, Training
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Kanchanpur	Ambikapur	15 KM
2	Judwani	Surajpur	35 KM

1. No. of farm families selected per village : 20

2. No. of survey/PRA to be conducted: 03

3.11. Activities of Soil and Water Testing Laboratory

Year of establishment: 2006-07

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Nitrogen Distillation Unit	3	Not Working
2	Water Distillation Unit	1	Not Working
3	pH Meter	1	Not Working
4	Shaker	1	Not Working
5	Balance	1	Not Working
6	Refrigerator	1	Not Working
7	Spectrophotometer	1	Not Working
8	Hot Air Oven	1	Not Working
9	Conductivity Meter	1	Not Working
10	Flame Photometer	1	Not Working
11	Atomic Absorption Spectrophotometer	1	Working
12	Mrida Parikshak	1	Working

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	400	600	22	-
Water Samples	-			
Total	400	600	22	-

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
-	-

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
-	-

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Action plan for Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Targeted Beneficiaries/Area/Coverage
January to December	ARYA (Four enterprises ie. Hitech Horticulture, Scented Rice Processing, Beekeeping, Jamun processing)	200/ 10 Villages (Manjira , Fatehpur, Khadgawa kala, Sarhari, Khopa, Bansa, Ganeshpur, Salhi, Phungi)
January to December	Natural farming	1000 / 3 Blocks in Surajpur (Surajpur, Bhaiyathan, Pratappur) & 3 Blocks in Surguja (Ambikapur, Lakhanpur, Udaipur)
January to December	Seed Hub	250/ 10 Villages (Jagdishpur, Fatehpur, Parsapara, Sukhri, Narmadapara, Judwani, Bhaiyathan, Bakirma, Kanchanpur and Kartama)

Planning for Crop Cafeteria

Total Area of Crop cafeteria: __720__ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	20 improved varieties (C.G. Devbhog, Vikram TCR, Swarna , Chandrahasini etc.)	Improved varieties released from IGKV demonstration for high yield capacity	240
Pea	Rabi	06 improved varieties (Indira Matar, IPFD 12-02, IPFD 10-11, IPFD 09-02 , Paras, Pant pea -243)	Improved varieties released from IGKV demonstration for high yield capacity	240
Wheat	Rabi	10 improved varieties (Ratan, Ratna, CG Hansa, Kaniska, CG Gehun -3, CG Gehun -4 etc.)	Improved varieties demonstration for high yield capacity	240

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Nursery	01	50	66,000 nos
Orchard	02	6000	1,50,000 Rs.
Vermi-composting	02	200	500 qtl
Dairy	01	100	7000 ltrs
Goatry	01	50	50,000 Rs
Quail	01	25	20,000 Rs
Poultry	01	100	45,000 Rs
Duck cum fish	01	40	70,000 Rs
Mushroom	01	30	20,000 Rs
Azolla	01	15	1.5 qtl
Biofloc	01	100	20 qtl