

ANNUAL ACTION PLAN

IGKV & CGKV KVKs

2023



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

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ANNUAL ACTION PLAN 2023

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.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. 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	Dr. Deepak Thakur	Subject Matter Specialist	Livestock Production Management	73500	30/09/2014	13/08/2018	7489018193	deepakthakur5444@gmail.com	
6	Subject Matter Specialist	Er. Geetesh Sinha	Subject Matter Specialist	APFE	63100	06/10/2018	06/10/2018	8878165265	geeteshsinha20@gmail.com	
7	Subject Matter Specialist	Vacant		-		-		-	-	
8	Programme Assistant	Smt. Deepshikha Manu Chandrakar	Programme Assistant	Plant Pathology	47200	30/10/2014	25/08/2018	9691500044	deepshikhamanu@gmail.com	
9	Computer Programmer/ Programme Assistant	Shri KK Lahre	Programme Assistant	Computer	50100	21/09/2012	06/02/2021	9753391419	kglahre@gmail.com	

10	Farm Manager	Dr. Mukesh Kumar Pandey	Farm Manager	Agronomy	38700	26/10/2019	26/10/2019	7974063876	mukesh.pandey7@gmail.com	
11	Assistant Jr.	-		-						
12	Stenographer / Comp. Operator	-		-						
13	Driver	Shri Vinod Kumar Paikra	Driver	-	32100	25/04/2008	15/07/2019	8103783332	-	
14	Driver	-		-						
15	Supporting staff	-		-						
16	Supporting staff	-		-						

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	Under construction
2	Farmers Hostel	ICAR	-	-	-	13/07/2020	470.41	Under construction
3	Staff Quarters (6)	-	-	-	-	-	-	-
4	Demonstration Units (2)	NHM	-	-	-	11/01/2022	240	Under construction
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	ICAR	-	-	-	18/10/2020	283.75	Under construction

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2019	8,00,000	1045 hour	Working
Motor Cycle 2	-	-	-	-
Bolero (Jeep)	2021	8,00,000	61561 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

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

Sl. No.	Tentative Date
1	First week of the August'2023

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 chaged 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	ew varieties and high reneumerative crops can be introduced	intensive care needed to crops

AES-4 (name) bund farming

Strength	Weakness	Opportunities	Threats
Extra income	income dependent on availybility of bunds	' 000 of acre occupied by bunds there is no crops	bund farming management is difficult

Add AES if needed

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
Bushes	-
Current Fallow	106.38
Other Fallow	11.65
Agricultural Land	281.52
Area Sown	252.12
Kharif	178.49
Rabi	73.63
Zaid	-
Cropping Intensity	139%

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 heavier 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 coarse 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	188.98	450.747	2969
2	Millet	0.335	0.25	740
3	Maize	2.261	7.92	2965
4	Wheat	3.964	5.827	1470
5	Black Gram	1.51	0.911	16
6	Pigeon Pea	0.872	1.13	1300
7	Green Gram	0.032	0.02	665
8	Lathyrus	35.564	24.006	675
9	Chickpea	13.021	16.211	1245
10	Lathyrus	35.564	24.006	675
11	Sesamum	0.154	0.06	400
12	Linseed	0.842	0.467	555
13	Mustard	2.937	1.395	475

14	Safflower	0.045	0.021	462

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

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

Major Spice crops of Balod District

S. No.	Name of vegetable	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Chilli	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

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	10.16	26.7	15.6
Feb, 22	12.70	30.0	18.3
Mar, 22	10.16	34.4	22.8
Apr, 22	17.78	38.3	26.7
May, 22	30.48	40.0	28.9
Jun, 22	190.50	34.4	27.2
July, 2022	327.66	30.0	25.0
Aug., 2022	307.34	29.4	25.0
Sept., 2022	20.32	30.6	25.0
Oct. 2022	53.34	30.6	22.8
Nov. 2022	10.16	28.9	18.3
Dec. 2022	5.08	26.1	15.0

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

Category	Population	Production	Productivity
Cattle			

Crossbred/ Indigenous	336477	62.24 MT.	-
Buffalo	30153	11.23 MT.	-
Sheep			
Crossbred/ Indigenous	5610	Nil MT wool	-
Goats	54331	5.325 MT	-
Pigs Crossbred/ Indigenous	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)	2200Q/ month	- Q/ ha.

Details of Operational area / Villages (2022)

Sl. 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	Pairy	Rice	High cost of cultivation	Reduce cost of cultivation
3	Gurur	Gurur	Chhedia	Rice, pegion pea	Low yield due to imbalance fertilizers	Use of balance fertilizers
4	Gurur	Gurur	Dadhari	Rice, sugarcane , pegion pea	Low yield due to imbalance fertilizers	Use of balance fertilizers
5	Dondi	Dondi	Baisbod	Rice, linseed	No use of improve variety	Use of improve variety
6	Dondi	Dondi	Salhe	Rice, Lathyrus	No use of improve variety	Use of improve variety
7	Dondilohara	Dondilohara	Tatenga	Rice, Lathyrus	Low yield due to imbalance fertilizers	Use of balance fertilizers
8	Dondilohara	Dondilohara	Kisna	Rice, Lathyrus	Low yield due to imbalance fertilizers	Use of balance fertilizers
9	Balod	Balod	Jamrua	Rice, mustard	Use of only chemical fertilizers	Integrated nutrient management
10	Balod	Balod	Aroud	Rice, Linseed	Use of only chemical fertilizers	Integrated nutrient management

Priority / Thrust areas

S. No.	Particulars
1	Rice – fallow is big problem of this district which should be changed
2	Horizontal spreading of Natural farming through 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 Fruit cultivation should be encouraged
12	Bamboo cultivation should encourage
13	Bund Farming should encouraged
14	Flower cultivation should be encouraged
15	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
10	70	10	70

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2400	225	16590

Seed Production (Qtl.)	Planting material (Nos.)
250	10000

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 on activities	Supply of seeds, planting materials etc.
1	Improving awareness among farmers about livestock health management	Goat	High incidence of diarrhea in Goats due to inclement weather condition	Assessment of ITK's in disease management in goats (3 rd Year)	-	Goatery management	-	Training, Pamphlets	Gurhal Flower
2	Commercial poultry rearing	Poultry	Low production of desi local birds and it takes a longer period to gain weight	Comparative assessment of Sonali and Desi Birds of Poultry (1 st year)	-	Poultry management	-	Training, Pamphlets	Chicks, feed, drinker, feeder
3	Storage of Green Fodder for year round fodder availability for livestock	Cattle	Low milk yield and reproductive problems due to lack of green fodder during scarcity period.	-	Assessment of performance of green fodder as a silage for milch animals during scarcity period (3 rd year)	Conservation of green fodder	Conservation of green fodder	Training, Pamphlets	Maize seeds, silo Bag
4	Storage of Green	Cattle	Low milk yield and	-	Assessment of performance	Conservation of green	Conservation of	Training, Pamphlet	Berseem seeds

	Fodder for year round fodder availability for livestock		reproductive problems due to scarcity of nutritious dry fodder during scarcity period		of green fodder as a hay for milch animals during scarcity period (3 rd year)	fodder	green fodder	s	
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 (<i>Pleurotus</i> <i>eros</i>) in different range of temperature and humidity. 1 st year		Mushroom production technique	Mushroom production technique	Training, Pamphlets	Mushroom spawn
6	Awareness about Burning of different straws after harvesting of cereal, pulse and oilseed crops, malnutrition problem	Mushroom	Low Economic status and Deficient of knowledge about use of different substrates in most suitable season for production of mushroom.	Low Economic status and Deficient of knowledge about use of different substrates in most suitable season for production of mushroom.		Mushroom production technique on different substrates	-	Training, Pamphlets	Mushroom spawn
7	Use of indigenous techniques for management of insect pests.	Rice	High use of Chemical pesticides for management of Insect pests of Rice crop.	Assessment of management of Yellow Stem Borer in Rice by use of Karada (<i>Cleistanthus collinus</i>) leaves (3 rd year)		Natural farming	Natural farming	Training, Pamphlets	-
8	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
9	Awareness for importance and use of	Lytharuss	Lack of irrigation facility and loss of soil	Assessment of zero tillage seed cum fertilizer drill	-	Importance and use of zero tillage seed cum	-	Training	-

	zero tillage seed cum fertilizer drill among the farmers		moisture due to delayed sowing	for lathyrus		fertilizer drill			
10	Awareness for Importance and use of PKV Dall Mill for maximum dall recovery	Pigeon Pea	Low dall recovery in traditional methods	Assessment of primary processing of Pigeon Pea though PKV Dall Mill	-	Importance and use of PKV Dall Mill for maximum dall recovery	-	Training	-
11	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	-
12	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	-	Demonstration of Tractor drawn seed cum fertilizer drill for sowing of Finger Millets	Importance and use of tractor drawn seed cum fertilizer drill	-	Training and demonstration	-
13	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
14	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
15	Awareness for	moringa	Cropping of moringa is not	-	Demonstration of moringa	Training on moringa	Training of	Training	Moringa plant

	multinutritoi on crop used whole part of plant		done as this is very nutritious crop		varriety PKM-1	cultivation and its value addition	different horticultu ral crop and its value addition		
16	Awareness of spice crop with improverd varriety	turmeri c	Spice crop area is very less and it needs to be increases		Demonstratio n of Turmeric varriety Roma	Training of cultivation and its value addition of spice crops	Training of different horticultu ral crop and its value addition	Training	Rhizme of turmeric
16	Awareness for integrated nutrient management	Finger millets	Low yield ,no use of INM		Integrated nutrient mang. In finger millets	Use of biofertilizers with chemical fertilizers	Training and method demonstra tions	Training	Seed ,biofertiliz ers and chemical fertilizers
17	Awareness for integrated nutrient management	Rice & Mustar d	High cost of cultivation and soil quality damage	Assessment of natural farming on mustard	-	Use of ghanjeevamrit,beejamrit,je evamrit and biopesticide	Training and method demonstra tions	Training	Plastic drum and seed

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	1	1	2	-	-	-	-	-	-	4
Use of PGRs							1			1
Organic cultivation	1	1			1					3
Moringa cultivation					1					1
Spice cultivation					1					1
Natural farming		1								1
TOTAL	2	3	2		3		1			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
Poultry Production	-	1	-	-	-	-	-	1
Livestock Production Management	-	-	-	1	-	-	-	1
TOTAL		1		1				2

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Poultry
Title of on farm trial	Comparative assessment of Sonali and Desi Birds of Poultry (1 st year)
Problem diagnosed	Low production of desi local birds and it takes a longer period to gain weight
Farming situation	Poultry Population in distt. Balod (no.) – 1124835
Production system and thematic area	Livestock Production Management
Farmers' Practices	Rearing of local check
Details of technologies selected for assessment	T ₁ Rearing of local check T ₂ Rearing of Sonali (Crossbreed) of poultry
Source of technology	TANUVAS, 2014
Plot size	-
No. of farmers	7
Total cost	15000
Critical input	Chicks, Feed, Vaccine
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Avg. Body weight, Egg production, Sensory evaluation (Meat), Net income, B:C ratio

OFT -2

Enterprise	Goatary
Title of on-farm trial	Assessment of ITK's in disease management in goats (3 rd Year)
Problem diagnosed	High incidence of diarrhea in Goats due to inclement weather condition
Farming situation	Goat Population in distt. Balod (no.) – 54331
Production system and thematic area	Livestock Production Management
Farmers' practices	Not known this ITK by farmers therefore use allopathic medicines for treatment
Details of technologies selected for assessment/refinement Treatments	: T ₁ : Not known this ITK by farmers therefore use allopathic medicines for treatment : T ₂ : Juice of gurchul (<i>Hibiscus malvaceae</i>) flowers (3 flowers) 5 ml is orally administer twice a day for 3 days
Source of technology	CIRG, Mathura, 2015-16
No. of animals	100
No. of farmers	7
Critical input	Juice of gurchul
Cost of input	500
Total cost	500
Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Recovery percentage

Detailed Information about OFT:

1. Details of On Farm Trial (OFT)

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

Fisheries etc)	
Title of on-farm trial:	Assessment of ITK's in disease management in goats (3 rd Year)
Year/Season:	2023
Farming situation:	Poultry Population in distt. Balod (no.) – 1124835
Problem diagnosis:	Low production of desi local birds and it takes a longer period to gain weight
Thematic area:	Livestock Production 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-	Rearing of local check
T2 –Recommended Practice-	Rearing of Sonali (Crossbreed) of poultry
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	TANUVAS, 2014
Characteristics of technology:	Early weight gain and more egg production
Name of Crop/Enterprises:	Poultry
Recommendations for Farmers	Sonali birds are well adopted in village condition and produced large no. of egg and attain higher body weight than local bird
Recommendations for Deptt. Personnel	Awareness and recommend about sonali chicken breed to farmers
Feedback	Sonali birds increases the income of farmer, livelihood security and employment to women and younger at Villages

2. Details of On Farm Trial (OFT)

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:	Comparative assessment of Sonali and Desi Birds of Poultry (1 st year)
Year/Season:	2023-24
Farming situation:	Goat Population in distt. Balod (no.) – 54331
Problem diagnosis:	High incidence of diarrhea in Goats due to inclement weather condition
Thematic area:	Livestock Production 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-	Not known this ITK by farmers therefore use allopathic medicines for treatment
T2 –Recommended Practice-	Juice of gurhul (<i>Hibiscus malvaceae</i>) flowers (3 flowers) 5 ml is orally administer twice a day for 3 days
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	CIRG, Mathura, 2015-16
Characteristics of technology:	Indigenous flowers used for treatment of diarrhea in goat
Name of Crop/Enterprises:	Goatary
Recommendations for Farmers	Use of 5 ml. Juice of gurhul flowers as a ayurvedic treatment of mild diarrhea in goat
Recommendations for Deptt. Personnel	Awareness and recommend to farmers about this technology
Feedback	Juice of gurhul flowers as a ayurvedic treatment of mild diarrhea in goat and economic to poor people to save money and ultimately increase the income of farmers

3. Details of On Farm Trial (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 improved package of practices of natural farming on Rice in upland situation
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Poor fertilizers use efficiency due to poor soil quality & imbalance nutrient management & 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 respectively DAS (5-20 %), Mulches of crop residues & Bio-pesticides
T3- Recommended Practice-	-
Date of sowing:	20-06-2023
Date of harvesting:	30-10-2023
Source of technology:	Gurukul Institute , Kurukshetra (Haryana)
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	-

4. Details of On Farm Trial (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 improved package of practices of natural farming on mustard
Year/Season:	Rabi- 2023-24
Farming situation:	Limited irrigation
Problem diagnosis:	Poor fertilizers use efficiency due to poor soil quality & imbalance nutrient management & 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:	15-11-2023
Date of harvesting:	15-03-2024
Source of technology:	Gurukul Institute , Kurukshetra (Haryana)
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	-

5 Details of On Farm Trial (OFT)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant pathology
Title of on-farm trial:	Assessment of production of Pink oyster mushroom (<i>Pleurotus</i> <i>eous</i>) in different range of temperature and humidity. 1 st year
Year/Season:	Year round 2023
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:	12
No. of farmers involved	4
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.
T3- Recommended Practice-	
Date of sowing:	January, June, October
Date of harvesting:	Stared from February, July and November 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	

6. Details of On Farm Trial (OFT)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant pathology
Title of on-farm trial:	Assessment of year round production of Pink oyster mushroom (<i>Pleurotus eous</i>) in on different substrates. 1 st year
Year/Season:	Year round 2023
Farming situation:	Rainfed
Problem diagnosis:	Low Economic status and Deficient of knowledge about use of different substrates in most suitable season for production of mushroom.
Thematic area:	Mushroom Production and Income generation.
No of trials:	8
No. of farmers involved	4
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cultivation Only in winter season and on Paddy straw.
T2 –Recommended Practice-	1. Cultivation of Mushroom in different seasons and on different straw. (Paddy, wheat, Lathyrus, Maize and urd crop's straw)
T3- Recommended Practice-	
Date of sowing:	March, June, October
Date of harvesting:	Stared from February, July and November respectively.
Source of technology:	IGKV, Raipur, 2017.
Characteristics of technology:	To improve economic status, fight for malnutrition, use of unused different crop straw.
Name of Crop/Enterprises:	Mushroom
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

7. Details of On Farm Trial (OFT)

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 management of Yellow Stem Borer in Rice by use of Karada (<i>Cleistanthus collinus</i>) leaves (3rd year)
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	High use of Chemical pesticides.
Thematic area:	IPM
No of trials:	5

No. of farmers involved	5
Type of OFT (Assessment/ Refinement):	Refinement
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	High use of Chemical pesticides.
T2 –Recommended Practice-	Application of 75-50 kg./ha.of Karada leaves(<i>Cleistanthus collinus</i>) by broadcasting once in rice field at 3 days of transplanting.
T3- Recommended Practice-	
Date of sowing:	8 July, 2023
Date of harvesting:	15 November, 2023
Source of technology:	Traditional Knowledge in Agriculture, Page No. 9, ICAR, 2020
Characteristics of technology:	Minimize high use of chemical pesticides and increase no. of natural enemies in crops.
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

8. Details of On Farm Trial (OFT)

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agril. Engineering
Title of on-farm trial:	Assessment of zero tillage seed cum fertilizer drill for lathyrus
Year/Season:	2023, Rabi
Farming situation:	Midland
Problem diagnosis:	Lack of irrigation facility and loss of soil moisture due to delayed sowing
Thematic area:	Farm Mechnization
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-	Utera
T2 –Recommended Practice-	Sowing with zero till seed cum fertilizer drill
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	Zero tillage, line sowing
Name of Crop/Enterprises:	Lathyrus
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

9. Details of On Farm Trial (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 primary processing of Pigeon Pea though PKV Dall Mill
Year/Season:	2023
Farming situation:	-
Problem diagnosis:	Low dall recovery in traditional methods
Thematic area:	AEG
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-	Manual (Stone Chakki/Jata)
T2 –Recommended Practice-	Dall Milling with PKV dall mill

T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	PDKV, Akola , 2012
Characteristics of technology:	Dall Milling
Name of Crop/Enterprises:	Pigeon Pea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

10. Details of On Farm Trial (OFT)

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.
SMS responsible for OFT	Dr. Baldev Agrawal

11. Details of On Farm Trial (OFT)

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
SMS responsible for OFT	Dr. Baldev Agrawal

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	Finger millet	Integrated nutrient management	Demonstration of Integrated nutrient management in Finger millet	NPK and Biofertilizers	Kharif 2023	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, Biofertilizers, Water soluble NPK ,Systemic insecticide	Rabi 2023-24	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, 2023	0.4	12	Pod length & weight, yield, BC Ratio
4	Turmeric	ICM	Variety: Roma; fertilizer dose:10:25:42 kg NPK/acre	Rhizome & fertilizer	Kharif and rabi , 2023	0.4	12	Pod length & weight, yield, BC Ratio

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 2023-24	12	2.6	Tractor operated seed cum fertilizer drill	Yield, q/ha B:C ratio	-	-

Tractor operated seed cum fertilizer drill	Finger Millets	Kharif, 2023	12	2.6	Tractor operated seed cum fertilizer drill	No. of ears/plant ratio	Yield, q/ha, B:C	-	-

**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
Cattle	Crossbreed	12	120	Maize seeds, Silo Bag	Milk Yield, B:C Ratio	Milk Production	Milk Production
Cattle	Crossbreed	12	120	Berseem Seeds	Milk Yield, B:C Ratio	Milk Production	Milk Production

**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
Mushroom	<i>Pleurotus eous</i>	13	13	Mushroom spawn	Yield, B:C ratio	Mushroom Yield	Mushroom Yield

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

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 Biofertilizer	Seed, Biofertilizer,	2023, Kharif	20	50	Plant Population, Yield (q/ha)
2	Mustard	ICM	Improved Variety of Seed, Line sowing, Seed treatment with Biofertilizer	Seed, Biofertilizer,	2023, Rabi	20	50	Plant Population, Yield (q/ha)
3	Linseed	ICM	Improved Variety of Seed, Line sowing, Seed treatment with Biofertilizer	Seed, Biofertilizer,	2023, Rabi	30	75	Plant Population, Yield (q/ha)
4	Sesamum	ICM	Improved Variety of Seed, Line sowing, Seed treatment with Biofertilizer	Seed, Biofertilizer,	2023, Summer	10	25	Plant Population, Yield (q/ha)
5	Pigeon pea	ICM	Improved	Seed,	2023,	10	25	Plant Population,

			Variety of Seed, Line sowing, Seed treatment with Biofertilizer	Biofertilizer,	Kharif			Yield (q/ha)
6	Chickpea	ICM	Improved Variety of Seed, Line sowing, Seed treatment with Biofertilizer	Seed, Biofertilizer,	2023, Rabi	10	25	Plant Population, Yield (q/ha)
7	Green Gram	ICM	Improved Variety of Seed, Line sowing, Seed treatment with Biofertilizer	Seed, Biofertilizer,	2023, 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									
Dairv Management	2	1	25	5	30	25	5	30	60

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Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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
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
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

[illegible]

Science										
Plant Protection										
July, November	Farmers	Integrated Pest Management	2	1	14	04	18	14	03	17
August, December	Farmers	Integrated Disease Management	2	1	15	04	19	13	03	16
September, January	Farmers	Bio-control of pests and diseases	2	1	16	05	21	09	05	14
November, February	Farmers	Production of bio control agents and bio pesticides	2	1	15	05	20	10	05	15
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
January	Farmers	Soil fertility management	1	5	8	13	13	4	17	30
February	Farmers	Soil and Water Conservation	1	7	12	19	7	4	11	30
March	Farmers	Integrated Nutrient Management	1	2	10	12	15	3	18	30
April	Farmers	Production and use of organic inputs	1	10	6	16	10	4	14	30
May	Farmers	Management of Problematic soils	1	9	8	17	10	3	13	30
June	Farmers	Micro nutrient deficiency in crops	1	10	10	20	6	4	10	30
July	Farmers	Nutrient Use Efficiency	1	9	9	18	6	6	12	30
August	Farmers	Soil and Water Testing	1	8	9	18	6	6	12	30
September	Farmers	Soil fertility management	1	5	9	18	6	6	12	30
October	Farmers	Soil and Water Conservation	1	7	6	13	11	6	17	30
November	Farmers	Integrated Nutrient Management	1	13	9	22	5	3	8	30
December	Farmers	Production and use of organic inputs	1	8	6	14	10	6	16	30

2. Off Campus

2. 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	Farmers	1	15	2	17	10	3	13	30	
Resource Conservation Technologies	Farmers	1	15	2	17	10	3	13	30	
Cropping Systems	Farmers	1	15	2	17	10	3	13	30	
Crop Diversification	Farmers	1	15	2	17	10	3	13	30	
Integrated Farming	Farmers	1	15	2	17	10	3	13	30	
Water management	Farmers	1	15	2	17	10	3	13	30	

[illegible]

Vocational Training Programme for Rural Youth:

[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										
Plant Protection										
June, November	RAEO	IPDM	1	19	08	28	07	05	12	40
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							Sponsor ing agen cy
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
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	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
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	6	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
(specify)										
Others (pl. specify)	10	500	300	800	10	10	20	510	310	820
Total	200	3700	2170	5420	142	80	222	3842	1800	5642

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	Vikram TCR	210
	Rice	CG Barani Dhan-2	35
	Finger millets	C.G.Ragi -3	24
OILSEEDS	Sesamum	TKG-308	2
	Safflower	IGKV kusum	50.5
	Safflower	CG kusum -1	20
	Linseed	RLC-164	12
	Mustard	CG Mustard	10
PULSES	-	-	-
VEGETABLES	-	-	-
FLOWER CROPS	-	-	-
OTHERS (Specify)	-	-	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Red son	10000
SPICES	turmeric	Roma	10
VEGETABLES	Drum stick	PKM-1	5000
		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				
1	Trichoderma	-	-	-
2	<i>Rhizobium</i>	-	-	-
BIOFERTILIZERS				
1	Vermicompost	<i>Isenia Fetida</i>	5	50000
2	NADEP	Compost	5	50000
BIO PESTICIDES				
1	Dasparni arkl	-	2	50 L
2	Pesticides	-	2	50 L

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	-	-	-	-
SHEEP AND GOAT	-	-	-	-
POULTRY	-	-	-	-
FISHERIES	-	-	-	-
Others (Specify) Fodder planting Material	Napier slip	-	200000	-

Literature to be Developed/Published
KVK News Letter

Date of start	Periodicity	Number of copies to be published
1 st January 2023	January to March 2023	500
1 st April 2023	April to June 2023	500
1 st July 2023	July to September 2023	500
1 st October 2023	October to December 2023	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	Paity	Gunderdehi	4
3	Kajrabandha	Gunderdehi	25
4	khapri	Gunderdehi	27
5	Chhedia	Gurur	35
6	Dadhari	Gurur	44
7	Baisbod	Dondi	34
8	Salhe	Dondi	42
9	Tatenga	Dondilohara	34
10	Kisna	Dondilohara	38
11	Jamrua	Balod	20
12	Aroud	Balod	2

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 , disicion 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
Feb-march	Agri Drone	20 ha
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	Mutent varity 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
		Swarna	Duration – 140-150 day Production – 50-55 Q/ha Dwarf,thin grain	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-	Duration – 140-150 days	5 x 5

		5346	Production- 50-55 Q/ha Resistance to submerged condition	
		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 - 30-32 Q/h	5 x 5
		CG-1029	Production - 30-32Q/h	5 x 5
		CG-03	Production- 30-32 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 - 30-32 Q/h	5 x 5
		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
Ragi		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	3000	Supply of seed for live stock

ANNUAL ACTION PLAN 2023

KVK Balrampur

Year of sanction: 2012

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Mrs. Arti Kujur		9301946785	artikujur18@gmail.com

1.2 Staff Position on (31th Dec.2022)

S. N o.	Sanction ed post	Name of the incumbe nt	Design ation	Discipline	Pay Scale with presen t basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Pho to
1	Program me Coordinat or	-	-	-	-	-	-	-	-	
2	Subject Matter Specialist	Shri A.K. Sonpakar	SMS	Entomolo gy	15600-39100+ GP 5400	07.09.2012	07.09.2012	9826117548	Sonpakar_ak@rediffmail.com	
3	Subject Matter Specialist	Shri. P. R. Paikra	SMS	Agronom y	15600-39100+ GP 5400	12.11.2014	13.04.2018	9977362776	paikra.pandu16@gmail.com	
4	Subject Matter Specialist	Dr. G.K. Nigam	SMS	Soil and Water Engineerin g	15600-39100+ GP 5400	05.10.2018	28-09-2020	9752970454	er.nigamgk@gmail.com	
5	Subject Matter Specialist	Mrs. Arti Kujur	SMS	Horticul ture	15600-39100+ GP 5400	08.01.2019	08.01.2019	9301946785	artikujur18@gmail.com	
6	Subject Matter Specialist	-	-	-	-	-	-	-	-	
7	Subject Matter Specialist	-	-	-	-	-	-	-	-	
8	Program me Assistant	-	-	-	-	-	-	-	-	
9	Computer Program mer/ Program me Assistant	Arpan Kumar Xalxo	PA(Computer)	B.E.(CSE)	9300-34800+ GP 4200	29.10.2019	29.10.2019	9406045297	arpan.xalxo@gmail.com	
10	Farm Manager	Shri Anup Kumar Paul	Farm Manag er	Soil Science	9300-34800+ GP 4200	18.09.2012	18.09.2012	9754640908	anupfmkvk@rediffmail.com	
11	Assistant	-								
12	Jr. Stenogra pher / Comp. Operator	-								
13	Driver	-								
14	Driver	-								

15	Supporting staff	-							
16	Supporting staff	-							

.3 Total land with KVK (in ha): 19.46

S. No.	Item	Area (ha)
1	Under Buildings	1.00
2	Under Demonstration Units	1.00
3	Under Crops	10.00
4	Orchard/Agro-forestry	03.00
5	Others (specify)	04.46
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	-	-			
2	Farmers Hostel	-	-	-	-	-	-	-
3	Staff Quarters (6)	-	-	-	-	-	-	-
4	Demonstration Units (2)							
5	Fencing	ICAR	28-03-2013	-	1234880	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	ICAR	2022					
8	Farm godown	ICAR						

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Tractor	2016	671831	1522 hours	Running
Tractor	2013	508199	2528 hours	Running
Motor Cycle 2	2016	65000	8740	Not Running
Bolero(Jeep)	2018	7836146	147255	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	20-07-2023
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	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)
4		
5		
6		

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 needed

Land 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 “000 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	Entisol (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	Paddy	74480	158075	19.60
2	Maize	36560	109613	31.30
3	Wheat	24110	48099	19.95
4	Mustard	31780	36113	8.80
5	-			

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	0.00	22	8
Feb, 22	0.00	26	11
Mar, 22	0.00	32	15
Apr, 22	0.00	38	21
May, 22	0.00	40	25
Jun, 22	65.46	38	27
July, 2022	142.71	34	26
Aug., 2022	473.41	33	26
Sept., 2022	294.88	33	24
Oct. 2022	5.52	33	20
Nov. 2022	0.00	29	14
Dec. 2022	0.00	24	9

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
Buffalo	55687		Non descript - 2 liter/animal/day
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 (2022)

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 armyworm,	Lack of Landscaping and fruit plantation
2	Kusmi	Kusmi	Kutku, Jamirapath, Dumarkholi, Gopatu, Navadih Khurd, Datram, Bakaspur, Shahpur Magaji	Paddy, maize, kharif potato, little millet and finger millet, Goatry, piggery	Weeds, stem borer, gall midge fall armyworm, 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 armyworm,	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 armyworm,	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
16	103	09	102

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
27	1566	147	14635

Seed Production (Qtl.)	Planting material (Nos.)
217.5	40500

B. Abstract of interventions to be undertaken

S. N o.	Thru st area	Crop/ Enterpri se	Identifie d 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	Prom otion of natur al farmi ng to redu ce the cost of cultiv ation	Rice	Low yield due to Broad casting of seed No use of other inputs	Assessm ent of Natural Farming in Scented Rice Jeerapho ol	-	-	-	Demonstratio n and training	Seed, Bijamrit, Jeevamrit, ghanjivamrit, Neemashtra and Brhmashttra
2	Pro moti on of mille t and orga nic farmi ng	Finger Millet	Low yield due to no use of organic inputs	Assessme nt of Yield Enhancem ent of Nutri-Cereal (Finger Millet)	-	-	-	Demonstratio n and training	Seed, pseudomonas
3	Pro mote the ITK requi re in rural areas	Groundn ut	Now days farmers are using inorganic fertilizers increase d cost of cultivatio n and least return	Assessme nt of ITK based Yield Enhancem ent in Groundnut	-	-	-	Demonstratio n and training	Seed
4	Nee d to IWM in Rabi seas on weed mana geme nt	Wheat	Low yield due to broadcas ting of seed and No proper weed manage ment practices	Assessme nt of Weed managem ent in Wheat	-	-	-	Demonstratio n and training	Seed, Herbicide
5	IPM, for man	Kharif Potato	White grub is polyphag ouse and	Assessmen t of IPM Module for Manageme	-	-	-	Demonstration and training	Chemical and biological Insecticide

	age ment of pest s and dise ases		destructiv e pest of potato in plateau region of distt.- Balrampu r, as a result of its attack tuber damaged 50-60%	nt of White grub (<i>Holotrichia Spp.</i>) in kharif Potato					
6	IPM, for man age ment of pest s and dise ases in rice	Rice	In Distt.- Balrampu r, during the reproduct ive and ripening stages, false smut disease is regular occurs can be severe and losses can reach 15- 25%. yield loss of 10-30%, and poor seed quality	Assessmen t of chemical pesticide for Manageme nt of False smut disease in Rice Crop	-	-	-	Demonstration and training	Carbendazime, copper oxychloride, Propiconazole
7	IPM, for man age ment of pest s and dise ases in puls es	Pigeon pea	50-60 % areas grwon pigeon pea. Pod borer, blister beetles & aphids are most destructiv e pest of Pigeon pea crop as a result of its attack Podes & flowers remain stunted in growth in early & pod	Assessmen t of Metarhiziu m anisopliae, entomopat hogenic fungal biological pesticide for Manageme nt insect pest of Pigeon pea crop	-	-	-	Demonstration and training	<i>Metarhizium</i> , <i>anisopliae</i> , entomopathogeni c fungal

			stages						
8	IPM, for management of pests and oilseeds	Mustard	Mustard is most imported oilseed crop in Distt.- Balrampur, area. Aphids are major destructive pest of in this crop, as a result of its attack during flowering & siliqua formation stage 30 to 40 % yield losses.	Assessment of Metarhizium anisopliae, entomopathogenic fungal biological pesticide for management of aphids in Mustard	-	-	-	Demonstration and training	<i>Metarhizium anisopliae</i> , entomopathogenic fungal
9	IPM, for management of pests and diseases in oilseeds	Mustard	Mustard is most imported oilseed crop in Distt.- Balrampur, area. Aphids are major destructive pest of in this crop, as a result of its attack during flowering & siliqua formation stage 30 to 40 % yield losses	Assessment of Metarhizium anisopliae, entomopathogenic fungal biological pesticide for management of aphids in Mustard	-	-	-	Demonstration and training	<i>Metarhizium anisopliae</i> , entomopathogenic fungal
10	Need to assess the ITK for pest and disease management	Sem (Bean)	Beans is most imported vegetable crop in Distt.- Balrampur, area. Aphids are major pest of in this crop,	Assessment of ITK & Metarhizium anisopliae, entomopathogenic fungal biological pesticide for management	-	-	-	Demonstration and training	<i>Metarhizium anisopliae</i> , Tobacco

	gement		as a result of its attack during flowering & pod formation stage 20 to 30 % yield losses.	nt of aphids in Sem (Bean)					
11	Need to promote Farm mechanization and implementation for seed sowing and harvesting	Blackgram	There is loss of fertilizer and seeds in broadcasting technique, No proper coverage of seeds by the soil, seeds do not placed at proper depth in broadcasting methods of sowing which results poor germination and low production	Assessment of Seed-cum-Fertilizer Drill for Line sowing of Blackgram	-	-	-	Demonstration and training	Tractor operated Seed cum fertilizer drill
12	Mulching require for effective weed control	Tomato	Weed infestation, Water losses, Nutrient losses	Assessment on impact of Mulches in Vegetables cultivation	-	-	-	Demonstration and training	Vegetable seeds and 25 micron silver/black plastic sheet
13	Need to promote Farm mechanization and implementation	Wheat	There is loss of fertilizer and seeds in broadcasting technique, No proper coverage of seeds	Assessment of Zero till Seed-cum-Fertilizer Drill for Line Sowing of Wheat	-	-	-	Demonstration and training	Tractor operated Seed cum fertilizer drill

	for seed sowing and harvesting		by the soil, seeds do not placed at proper depth in broadcasting methods of sowing which results poor germination and low production						
14	Promotion of IWM in vegetables and spices	Onion/ Bhima Super	Heavy weed infestation in onion	Assessment of Weed Management in Onion	-	-	-	Demonstration and training	Seed, herbicide
15	To promote the use of PGR and ICM	Bottle gourd	Low yield due to no use of PGR	Assessment of Foliar application of Ethrel PGR at 2 & 4 True leaf stages in Bottle gourd	-	-	-	Demonstration and training	PGR
16	Use of HYV for getting more yield	Tomato	Low yield due to no use of improved tomato variety	Assessment of different improved varieties of tomato	-	-	-	Demonstration and training	Seed

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
Natural farming	Rice	-	-	-	-	-	-	-	-	1
Organic farming	Finger millet	-	-	-	-	-	-	-	-	1
ITK	-	Groundnut	-	-	Sem	-	-	-	-	2
Weed management	Wheat	-	-	-	Onion	-	-	-	-	2

IPM	-	-	-	-	-	-	-	-	1	1
Pest management	Rice	-	-	-	-	-	-	-	-	1
Biological pest management	-	Mustard	Pigeonpea	-	-	-	-	-	-	2
Agriculture engineering	Rice	-	Blackgram	-	-	-	-	-	-	2
Precision farming	-	-	-	-	Tomato					1
ICM	-	-	-	-	Bottle guard	-	-	-	-	1
Varietal assessment	-	-	-	-	Tomato	-	-	-	-	1
TOTAL										15

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	Rice/Jeeraphool	
Title of on farm trial	Assessment of Natural Farming in Scented Rice Jeeraphool	
Problem diagnosed	Low yield due to Broad casting of seed No use of other inputs	
Farmers' Practices	Traditional Variety, Brodcasting mehod of sowing	
Details of technologies selectedfor assessment	T ₁	Seed treatment with Bijamrit @ 1 liter/10 kg seed + Soil application of ghanjivamrit + Foliar application of Jeevamrit @ 500 liter/ ha at 20, 40 and 60 DAT and foilar application Of Neemashtra and Brhmashttra
	T ₂	
Source of technology	HAU, Hariyana	
Plot size	0.40 ha	
No. of farmers	07	
Total cost	10850/-	
Critical input	Seed, Bijamrit, Jeevamrit, ghanjivamrit, Neemashtra and Brhmashttra	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT-2

Crop / Enterprise	Finger Millet/CG Ragi-2	
Title of on farm trial	Assessment of Yield Enhancement of Nutri-Cereal (Finger Millet)	
Problem diagnosed	Low yield due to no use of organic inputs	
Farmers' Practices	Traditional practices (Application of Fertilizers)	
Details of technologies selectedfor assessment	T ₁	Traditional Variety, Brodcasting mehod of sowing
	T ₂	Improved variety, line sowing (22.5x10 cm) vermi-compost 25 T/ha & seed treatment with pseudomonas (25 gm/kg seed)
Source of technology	IGKV, Raipur	
Plot size	0.40 ha	
No. of farmers	07	
Total cost	1750/-	
Critical input	Seed, pseudomonas	

Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	

OFT-3

Crop / Enterprise	Groundnut/GJG-32/Dharni/ICGV-1119	
Title of on farm trial	Assessment of ITK based Yield Enhancement in Groundnut	
Problem diagnosed	Now days farmers are using inorganic fertilizers increased cost of cultivation and least return	
Farmers' Practices	Use of inorganic fertilizers	
Details of technologies selectedfor assessment	T ₁	Use of inorganic fertilizers
	T ₂	Spreading of 0.5 to 1 kg dry cow dung in 1-1.5 meters distance in tilled soil and burning during mid April to first week of May + Earthing up at 25-30 DAS
Source of technology	Farmers	
Plot size	0.40 ha	
No. of farmers	07	
Total cost	24150/-	
Critical input	Seed	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation		

OFT-4

Crop / Enterprise	Wheat/Chhattisgarh Ambar wheat/ C.G. Gehu 3/4	
Title of on farm trial	Assessment of Weed management in Wheat	
Problem diagnosed	Low yield due to broadcasting of seed and No proper weed management practices	
Farmers' Practices	Broadcasting of seed and no weed management practice	
Details of technologies selectedfor assessment	T ₁	Metsulfuron methyl 20 % WP @ 4 g a.i./ha at 20-25 DAS
	T ₂	Metsulfuron methyl 10% WP+ Clodinofof propargyl 15% WP + @ 4 g a.i./ha at 25-30 DAS
Source of technology	IGKV, Raipur	
Plot size	0.40 ha	
No. of farmers	07	
Total cost	21000/-	
Critical input	Seed, Herbicide	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation		

OFT-5

Crop / Enterprise	Kharif Potato	
Title of on farm trial	Assessment of IPM Module for Management of White grub (<i>Holotrichia Spp.</i>) in kharif 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	Farmers are not actually understand its nature of damage and apply insecticide on plants as per dealer recommendation.	
Details of technologies selectedfor assessment	T ₁	Carbofuran 3G @ 4 kg/ acre in furrowing at the time of sowing
	T ₂	Metarhizim anisopliae 20g/Kg Soil
Source of technology	TANU and IGKV Raipur	
Plot size	0.40 ha	
No. of farmers	07	
Total cost	5600/-	
Critical input	Chemical and biological Insecticide	
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation		

OFT-6

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of chemical pesticide for Management of False smut disease in Rice Crop	
Problem diagnosed	In Distt.- Balrampur, during the reproductive and ripening stages, false smut disease is regular occurs can be severe and losses can reach 15-25%. yield loss of 10–30%, and poor seed quality.	
Farmers' Practices	Lack of knowledge about proper time of apply pesticides, in a crop.	
Details of technologies selectedfor assessment	T ₁	1. Seed treatment with carbendazime 2.0g/kg of seeds. 2. Spraying of copper oxychloride at 2.5 g/litre of water at pre flowering, boot leaf and milky stages. 3. Propiconazole at 1.0 ml/litre of water at pre flowering, boot leaf and milky stages.
	T ₂	
Source of technology	IGKV	
Plot size	0.40 ha	
No. of farmers	07	
Total cost	17255/-	
Critical input	Carbendazime, copper oxychloride, Propiconazole	
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation		

OFT-7

Crop / Enterprise	Pigeon pea	
Title of on farm trial	Assessment of <i>Metarhizium anisopliae</i>, entomopathogenic fungal biological pesticide for Management insect pest of Pigeon pea crop	
Problem diagnosed	50-60 % areas grwon pigeon pea. Pod borer, blister beetles & aphids are most destructive pest of Pigeon pea crop as a result of its attack Podes & flowers remain stunted in growth in early & pod stages	
Farmers' Practices	Lack of knowledge about <i>Metarhizium anisopliae</i> , entomopathogenic fungul Biological insecticide, for use in pigeon pea crop.	
Details of technologies selectedfor assessment	T ₁	Spraying of <i>Metarhizium anisopliae</i> @ 1500 ml/acre in flowering & pod stage
	T ₂	
Source of technology	IGKV	
Plot size	0.40 ha	
No. of farmers	07	
Total cost	2520/-	
Critical input	<i>Metarhizium</i> , <i>anisopliae</i> , entomopathogenic fungal	
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation		

OFT-8

Crop / Enterprise	Mustard	
Title of on farm trial	Assessment of <i>Metarhizium anisopliae</i>, entomopathogenic fungal biological pesticide for management of aphids in Mustard	
Problem diagnosed	Mustard is most imported oilseed crop in Distt.- Balrampur, area. Aphids are major destructive pest of in this crop, as a result of its attack during flowering & siliqua formation stage 30 to40 % yield losses.	
Farmers' Practices	Lack of knowledge about <i>Metarhizium anisopliae</i> , entomopathogenic fungal Biological insecticide, for use in Mustard crop.	
Details of technologies selectedfor assessment	T ₁	Lack of knowledge about <i>Metarhizium anisopliae</i> , entomopathogenic fungal Biological insecticide, for use in Mustard crop.
	T ₂	Spraying of <i>Metarhizium anisopliae</i> , entomopathogenic fungal biological pesticide @ 1500 ml/acre in flowering & siliqua formation stage
Source of technology	IGKV	
Plot size	0.40 ha	

No. of farmers	07
Total cost	2520/-
Critical input	<i>Metarhizium anisopliae</i> , entomopathogenic fungal
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	

OFT-9

Crop / Enterprise	Sem (Bean)	
Title of on farm trial	Assessment of ITK & <i>Metarhizium anisopliae</i>, entomopathogenic fungal biological pesticide for management of aphids in Sem (Bean)	
Problem diagnosed	Beans is most imported vegetables crop in Distt.- Balrampur, area. Aphids are major pest of in this crop, as a result of its attack during flowering & pod formation stage 20 to 30 % yield losses.	
Farmers' Practices	Lack of knowledge about ITK & <i>Metarhizium anisopliae</i> , entomopathogenic fungal Biological insecticide, for Control of aphids in Bean crop.	
Details of technologies selected for assessment	T ₁	Spraying of <i>Metarhizium anisopliae</i> , @ 1500 ml/acre in flowering & pod formation stage
	T ₂	Spraying of Cow urine + Tobacco soaked water @ 5: (1:10)
Source of technology	Shri Nepal Chandar Ojha, Bahadurpur, Govindpur, Dhanbad Jharkhand & IGKV Raipur	
Plot size	0.40 ha	
No. of farmers	07	
Total cost	4270/-	
Critical input	<i>Metarhizium anisopliae</i> , Tobacco	
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation		

OFT-10

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, No proper coverage of seeds by the soil, seeds do not placed at proper depth in broadcasting methods of sowing which results poor germination and low production.	
Farmers' Practices	Broadcasting	
Details of technologies selected for assessment	T ₁	Tractor operated Seed cum fertilizer drill
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	0.40 ha	
No. of farmers	07	
Total cost	3500/-	
Critical input	Tractor operated Seed cum fertilizer drill	
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) 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	Without Mulching	
Details of technologies selected for assessment	T ₁	Use of 25 Micron Silver/Black plastic sheet mulch
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	0.40 ha	

No. of farmers	05
Total cost	12500/-
Critical input	Vegetable seeds and 25 micron silver/black plastic sheet
Performance indicators: (xxxi) Technical- yield (q/ ha) (xxxii) Economic (xxxiii) Social – Employment generation	

OFT-12

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, No proper coverage of seeds by the soil, seeds do not placed at proper depth in broadcasting methods of sowing which results poor germination and low production
Farmers' Practices	Broadcasting
Details of technologies selectedfor assessment	T ₁ Tractor operated Seed cum fertilizer drill T ₂
Source of technology	IGKV, Raipur
Plot size	0.40 ha
No. of farmers	07
Total cost	3500/-
Critical input	Tractor operated Seed cum fertilizer drill
Performance indicators: (xxxiv) Technical- yield (q/ ha) (xxxv) Economic (xxxvi) Social – Employment generation	

OFT-13

Crop / Enterprise	Onion/ Bhima Super
Title of on farm trial	Assessment of Weed Management in Onion
Problem diagnosed	Heavy weed infestation in onion
Farmers' Practices	No use of herbicide/manual weeding
Details of technologies selectedfor assessment	T ₁ Application of Quizalofop ethyle 5% EC 300 ml /acre + Oxyflourfen 23.5% EC 400 ml /acre 15-20 DAT to control of broad and narrow spectrum T ₂
Source of technology	IGKV, Raipur
Plot size	0.40 ha
No. of farmers	07
Total cost	7200/-
Critical input	Seed , herbicide
Performance indicators: (xxxvii) Technical- yield (q/ ha) (xxxviii) Economic (xxxix) Social – Employment generation	

OFT-14

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 no use of PGR
Farmers' Practices	no use of PGRs
Details of technologies selectedfor assessment	T ₁ Foliar application of Ethrel PGR @ 250 ppm at 2 & 4 leaves stages T ₂
Source of technology	IGKV, Raipur
Plot size	0.2 ha
No. of farmers	07
Total cost	1200/-
Critical input	PGR

Performance indicators: (xl) Technical- yield (q/ ha) (xli) Economic (xlii) Social – Employment generation	

OFT-15

Crop / Enterprise	Tomato	
Title of on farm trial	Assessment of different improved varieties of tomato	
Problem diagnosed	Low yield due to no use of improved tomato variety	
Farmers' Practices	Use of local tomato variety	
Details of technologies selected for assessment	T ₁	Kashi Adarsh
	T ₂	Pant T-3
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	07	
Total cost	2100/-	
Critical input	Seed	
Performance indicators: (xliii) Technical- yield (q/ ha) (xliv) Economic (xlv) 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 :
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:

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 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/Jeeraphool	Organic farming	Green Manuring + FYM (5.0 t/ha) + Use of Biofertilizer (Azotobactor + PSB) + Line Transplanting (20 x 15 cm) + Two interculture operation by Ambika paddy weeder + use of Neemashttra and Brahmashttra	Dhaincha Seed, Biofertilizer, Neemashttra, Brahmashttra	Kharif 2023	0.40	12	Number of effective Tillers/hill, Grains/panicle, yield and Economics
2	Wheat/C.G. Gehu-03/04	Nutrient Management	Line sowing, Improved Variety + RDF (100:60:40) NPK, Kg/ha and seed treatment with PSB @ 5 g/kg seed	Seed, Biofertilizer	Rabi 2023	0.40	12	No. Tillers/Plant, No of Grains/ear Yield q/ha and Economics
3	Maize	Pest Management	IPM	pheromone trap, Chlorantriliprole, Chlorpyrifos+Cypermethrin	Kharif 2023	0.40	12	
4	Chickpea	Pest Management	IPM	pheromone trap, Insecticide	Rabi 2023	0.40	12	
5	Paddy	Agricultural Engineering	Seed-cum-Fertilizer Drill for Line Sowing of Paddy	Tractor operated Seed cum fertilizer drill	Kharif 2023	0.40	10	Tractor operated Seed cum fertilizer drill
6	Paddy	Agricultural Engineering	Tractor Operated Axial Flow Thresher for Paddy crops	Tractor Operated Axial Flow Thresher	Kharif 2023	0.40	10	Tractor operated axial flow thresher
7	Mustard	Agricultural Engineering	Seed-cum-Fertilizer Drill	Tractor operated Seed cum fertilizer drill	Rabi 2023	0.40	10	

			for Line Sowing of Mustard					
8	Onion	Varietal demonstration	Improved variety Bhima Shakti	seed	Rabi 2023	0.40	07	Improved variety Bhima Shakti
9	Seasonal vegetables and fruits plant	Integrated crop management	Proper use of land, year round cultivation of vegetable, spices crops, leafy vegetable and fruits,	Seed and planting materials		100-200sq. m	20	Proper year round cultivation of vegetable, spices crops, leafy vegetable and fruits

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	09	October/November	500
2	Farmers Training	20	May/June/October	1000
3	Media coverage	20		
4	Training for extension functionaries	04	May/June/October/November	400

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 (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Groundnut		Line Sowing, HYV of seed and IPM	Seeds, Insecticide and pesticide	Kharif, Summer	20 ha	50	Yield, Economics
2	Mustard		Line Sowing, HYV of seed and IPM	Seeds, Insecticide and pesticide	Rabi	20 ha	50	Yield, Economics
3	Niger		Line Sowing, HYV of seed and IPM	Seeds, Insecticide and pesticide	Rabi	20 ha	50	Yield, Economics
4	Blackgram		Line Sowing, HYV of seed and IPM	Seeds, Insecticide and pesticide	Kharif	20 ha	50	Yield, Economics
5	Pigeonpea		Line Sowing, HYV of seed and IPM	Seeds, Insecticide and pesticide	Kharif	20 ha	50	Yield, Economics

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	October/November	500
2	Farmers Training	20	May/June/October	600
3	Media coverage	20		
4	Training for extension functionaries	04	May/June/October/November	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	2	2							
Resource Conservation Technologies	2	2							
Integrated Farming	2	2							
Water management	2	2							
Seed production	2	2							
Integrated Crop Management	2	2							
Total	12	12							
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	2	2							
Protective cultivation	2	2							

[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	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	-	-									
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									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
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	-	-							
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	-	-							

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										

2. Off Campus

Agriculture Extension (Capacity Building and Group Dynamics)

Vocational Training Programme for Rural Youth.

Crop Production

Horticulture

[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	06			150			8			158
Kisan Mela										
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 arohic	35.00
OILSEEDS	Niger	JNS -30	07.00
PULSES	Black gram	Indira urd -1	05.00
VEGETABLES	Okra	Kashi Kranti	1.00
FLOWER CROPS	-	-	-
OTHERS (Specify)	Ragi	Chhattisgarh ragi 02	30.00
	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	1000
	Karonda	Beeju	30000
	Papaya	Red leddy	1000
	Drum stick	PKM-01	1000
SPICES	-	-	-
	-	-	-
VEGETABLES	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
FOREST SPECIES	-	-	-
	-	-	-
	-	-	-
ORNAMENTAL CROPS	-	-	-
	-	-	-
PLANTATION CROPS	-	-	-
	-	-	-
	-	-	-
Others (specify)	Sindoor	Beeju	5000

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 ark			
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.N.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Pachawal	Balrampur	10
2	Nehru Nagar	Ramchandrapur	30
3	Khajuriyadih	Kusmi	35
4	Durgapur	Shankargarh	80
5	Jhingo	Rajpur	52
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	40/3 Village
June-July	Demonstration	40/08 Acre
Every month	Awareness Programmes	1000/05 Villages
September-October	Exposure visits	30/2000

Planning for Crop Cafeteria

Total Area of Crop cafeteria:

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

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Natural Farming	Demonstration on Wheat using Natural Farming	2000	
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	
Poultry Unit	Kadaknath and Quail farming	2000	
Dairy Unit	Cow (Sahiwal)	1500	
Goat unit	Black bangal	1500	
Quail unit	Japanese quail	500	
Fishery Unit	Rohu/katla/mrigal	2000	
Fruit Mother Orchard	Mango/litchi/guava/	20000	

ANNUAL ACTION PLAN 2023

KVK, Bastar (C.G.)

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.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. Santosh Kumar Nag	Senior Scientist & Head	Agricultural Economics	131400 - 217100 (Basic 147900)	26.03.2019	2019	7987242567	Santosh2675@gmail.com	
2	Subject Matter Specialist	Er. Rahul Sahu	Subject Matter Specialist	Agricultural Processing & Food Engineering	56100-177500 (Basic 73200)	06.09.2012	2012	9993909596	rahulquest@cheerful.com	
3	Subject Matter Specialist	Sh. Lekh Ram Verma	Subject Matter Specialist	Agricultural Extension	56100-177500 (Basic 69000)	25.09.2014	2015	9713763619	lrextension@gmail.com	
4	Subject Matter Specialist	Sh. Sushil Kumar Kashyap	Subject Matter Specialist	Horticulture	56100-177500 (Basic 63100)	06.10.2018	2018	7898264483	kashyapflori@gmail.com	
5	Subject Matter Specialist	Sh. Dharmpal Kerketta	Subject Matter Specialist	Entomology	56100-177500 (Basic 63100)	29.10.2012	2018	7024255430	dp.ento@gmail.com	
6	Subject Matter Specialist	Vacant	--							
7	Subject Matter Specialist	Vacant	--							
8	Programme Assistant	Smt. Ritika Samrath	Programme Assistant	Plant Pathology	35400-112400 (Basic 38700)	20.11.2019	2019	8839826721	ritu45880@gmail.com	
9	Computer Programmer/ Programme Assistant	Sh. Kamal Kumar Dhruw	Programme Assistant	Information Technology	35400-112400 (Basic 38700)	31.10.2019	2019	7999092840	kamaldhruw@gmail.com	
10	Farm Manager	Sh. Dushyant Pandey	Farm Manager	Agronomy	35400-112400 (Basic 47600)	17.09.2012	2020	7225890041	duspandey@gmail.com	
11	Assistant	--								
12	Jr. Stenographer / Comp. Operator	Sh. Krishna Kumar Das	Jr. Stenographer / Comp. Operator	Sociology	18420 (Fixed)	05.12.2020	2020	9479226376	Kkdas786@gmail.com	
13	Driver	Sh. Sanat Kumar Uike	Driver	I.T.I.	19500-62000 (Basic 31200)	29.04.2008	2008	9406286322	--	

14	Driver	Sh. Dinbandhu	Tractor Driver	Primary	14200 (Fixed)	07.12.2020	2020	8964091302	--	
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		12.8

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	205113, 246219	Very Poor
Bolero(Jeep)	2017	800000.00	112000	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	26.06.2023
2	27.11.2023

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) but 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	101190	2226180	22.0
2	Maize	21190	985500	46.50
3	Millets	16560	135790	8.19
4	Niger	5730	31520	5.50
5	Black gram	4270	37150	8.70

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	65.4	26.8	11.6
Feb, 22	0.5	29.5	11.9
Mar, 22	1.6	35.0	17.2
Apr, 22	12.6	36.9	21.7
May, 22	84.1	36.1	23.2
Jun, 22	144.8	33.5	23.2
July, 2022	582.4	28.1	22.0

Aug., 2022	679.9	29.3	21.8
Sept., 2022	452.4	29.9	21.7
Oct. 2022	88.8	29.6	18.7
Nov. 2022	0.0	28.9	12.9
Dec. 2022	0.0	29.7	12.5

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 (2022)

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
06	35	05	58

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
68	3222	98	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	Agricultural Extension	Paddy	Imbalanced/fertilizer use is very less	Assessment of soil health card recommendation-based fertilizer application in rice crop	--	--	--	--	--
4	Agricultural Extension	Sunflower	Vulnerable farming system	Assessment of natural farming practices in sunflower crop	--	--	--	--	--
5	Integrated Disease Management	Brinjal	Incidence of soil borne disease in brinjal results poor yield	Assessment of soil borne disease management in Brinjal	--	--	--	--	--
6	ITK (Plant Protection)	Paddy	Yield loss due to blast disease.	Assessment of blast disease management of paddy	--	--	--	--	--

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
Agricultural Extension	01	01	--	--	--	--	--	--	--	02
Integrated Disease Management	--	--	--	--	01	--	--	--	--	01
ITK (Plant Protection)	01	--	--	--	--	--	--	--	--	01
TOTAL	04	01	--	--	01	--	--	--	--	06

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 selectedfor 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	Dehushing 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 selectedfor assessment	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	60000.00	
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	Paddy	
Title of on farm trial	Assessment of soil health card recommendation-based fertilizer application in rice crop	
Problem diagnosed	Imbalanced/fertilizer use is very less	
Farmers' Practices	Farmers are not using fertilizers as per SHC based recommendation	
Details of technologies selectedfor assessment	T ₁	Farmers practice
	T ₂	Farmers using fertilizers as per SHC based recommendation
Source of technology	IGKV, Raipur	
Plot size	--	
No. of farmers	08	
Total cost	24000.00	

Critical input	Seed & fertilizer
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	Plant height, no. of hill, productive tillers, grains

OFT-4

Crop / Enterprise	Sunflower				
Title of on farm trial	Assessment of natural farming practices in sunflower crop				
Problem diagnosed	Vulnerable farming system				
Farmers' Practices	Farmers using conventional practices				
Details of technologies selected for assessment	<table> <tr> <td>T₁</td><td>Farmers' Practices</td></tr> <tr> <td>T₂</td><td>Seed treatment with Beejamrit, Foliar spray of Jeevamrit (5 times @ 5, 10, 15, 20 & 25 li/100 li water at 25, 40, 55, 75, 90 DAS), Ghanjeevamrit (@250 kg/ha), Neemastra @2.5%, Mulching</td></tr> </table>	T ₁	Farmers' Practices	T ₂	Seed treatment with Beejamrit, Foliar spray of Jeevamrit (5 times @ 5, 10, 15, 20 & 25 li/100 li water at 25, 40, 55, 75, 90 DAS), Ghanjeevamrit (@250 kg/ha), Neemastra @2.5%, Mulching
T ₁	Farmers' Practices				
T ₂	Seed treatment with Beejamrit, Foliar spray of Jeevamrit (5 times @ 5, 10, 15, 20 & 25 li/100 li water at 25, 40, 55, 75, 90 DAS), Ghanjeevamrit (@250 kg/ha), Neemastra @2.5%, Mulching				
Source of technology	Gurukul, Kurukshetra, HP (2019)				
Plot size	--				
No. of farmers	08				
Total cost	9600.00				
Critical input	250-liter capacity plastic Drum				
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Yield/Oil %, Weed count, Adoptability, Attitude toward NF practices				

OFT-5

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 selected for assessment	<table> <tr> <td>T₁</td><td>No such practice</td></tr> <tr> <td>T₂</td><td>Soil treatment with <i>T. viride</i> + <i>P. fluorescence</i> @ 6 kg/ha</td></tr> <tr> <td>T₃</td><td>Seedling dip with <i>T. harzanium</i> + <i>P. fluorescence</i> @ 10 g powder mixed in a liter of water</td></tr> </table>	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
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: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	Crop yield, PDI (Percentage Disease Incidence)						

OFT-6

Crop / Enterprise	Rice						
Title of on farm trial	Assessment of blast disease management of paddy						
Problem diagnosed	Yield loss due to blast disease.						
Farmers' Practices	No such practice						
Details of technologies selected for assessment	<table> <tr> <td>T₁</td><td>No such practice</td></tr> <tr> <td>T₂</td><td>Soaking seeds of rice into diluted Cow urine before sowing</td></tr> <tr> <td>T₃</td><td>Spray of aqueous extract of Bael leaf @ 25 g/ liter of water+ Tulsi leaf @ 25g/liter of water</td></tr> </table>	T ₁	No such practice	T ₂	Soaking seeds of rice into diluted Cow urine before sowing	T ₃	Spray of aqueous extract of Bael leaf @ 25 g/ liter of water+ Tulsi leaf @ 25g/liter of water
T ₁	No such practice						
T ₂	Soaking seeds of rice into diluted Cow urine before sowing						
T ₃	Spray of aqueous extract of Bael leaf @ 25 g/ liter of water+ Tulsi leaf @ 25g/liter of water						
Source of technology	ITK Book ATARI Jabalpur						
Plot size	--						
No. of farmers	5						
Total cost	3000.00						
Critical input	Paddy/Rice seed						

Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) 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:	2023/Rabi
Farming situation:	--
Problem diagnosis:	Subsistence farming and post-harvest management
Thematic area:	Post-harvest management
No of trials:	01
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 dehusking
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:	Cleaning and dehulling of Kodo millet through millet dehusser machine by maintaining the emery clearance for effective dehulling
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:	2023/Summer
Farming situation:	--
Problem diagnosis:	Lack of knowledge about consumption of nutritional food, use of traditional diet
Thematic area:	Post-harvest management
No of trials:	02
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 (wheat grits + green gram + finger millet + broken rice)
Date of sowing:	--
Date of harvesting:	--
Source of technology:	IGKV, Raipur
Characteristics of technology:	Nutritional profile of the traditional dish Ragi pej is improved by mixing some cereals and pulses in definite proportion
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.)	Plant Protection
Title of on-farm trial:	Assessment of soil borne disease management in Brinjal
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Incidence of soil borne disease in brinjal results poor yield
Thematic area:	Integrated disease management
No of trials:	03
No. of farmers involved	05
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:	July 2023
Date of harvesting:	October 2023
Source of technology:	VNMKV, Parbhani
Characteristics of technology:	Eco friendly, less expensive
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/	Plant Protection

Fisheries etc.)	
Title of on-farm trial:	Assessment of blast disease management of paddy
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Yield loss due to blast disease.
Thematic area:	Integrated disease management
No of trials:	04
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No such practice
T2 –Recommended Practice-	Soaking seeds of rice into diluted Cow urine before sowing
T3- Recommended Practice-	Spray of aqueous extract of Bael leaf @ 25 g/ liter of water+ Tulsi leaf @ 25g/liter of water
Date of sowing:	July 2023
Date of harvesting:	October 2023
Source of technology:	ITK Book ATARI Jabalpur
Characteristics of technology:	Eco friendly, less expensive
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	--
Recommendations for Deptt. Personnel	--
Feedback	--

Information about Extension OFT 1:

Title	Assessment of soil health card (SHC) recommendation-based fertilizer application in rice crop
Season & Year	Kharif/2023
Problem identified	Imbalanced/fertilizer use is very less
Thematic Area	Technology application
Farming situation	Rainfed
Name of Technology Intervention under study	Farmers using fertilizers as per SHC based recommendation
Farmers Practice	Farmers are not using fertilizers as per SHC based recommendation
No. of replication (Farmers)	08

Results / findings

Performance indicators/ parameters	Unit/ details
Plant height, no. of hill, productive tillers, grains	

Information about Extension OFT 2:

Title	Assessment of natural farming practices in sunflower crop
Season & Year	Rabi/2023
Problem identified	Vulnerable farming system

Thematic Area	Natural farming
Farming situation	Irrigated
Name of Technology Intervention under study	Seed treatment with Beejamrit, Foliar spray of Jeevamrit (5 times@5,10,15,20 & 25 li/100 li water at 25, 40, 55, 75, 90 DAS), Ghanjeevamrit (@250 kg/ha), Neemastra @2.5%, Mulching
Farmers Practice	Farmers using conventional practices
No. of replication (Farmers)	08

Results / findings

Performance indicators/ parameters	Unit/ details
Yield/Oil %, Weed count, Adoptability, Attitude toward NF practices	

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	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--

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/2023	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)	--	--
Seed cum fertilizer drill machine	Kodo Millet	Kharif/2023	12	05	Seed, herbicides, insecticides	Yield (q/ha), Field efficiency (%), seed rate (kg/ha)	--	--
Seed cum fertilizer drill machine	Kutki Millet	Kharif/2023	12	05	Seed, herbicides, insecticides	Yield (q/ha), Field efficiency (%), seed rate (kg/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
Nutri-smart agriculture	Finger millet (Indira Ragi-1)	10	04	Seed and seed treatment chemicals & bio-fertilizer	Local Check/ Farmer Practice: Plant population/meter, Disease incidence, Yield.	--	--

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

S. 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	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]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Group Dynamics											
Leadership development	0	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	1	1	0	10	0	10	0	30	0	30	40
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0
Total	1	1	0	10	0	10	0	30	0	30	40
XI Agro-forestry											
0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)											
0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	22	15	125	117	0	242	315	251	0	591	833
(B) RURAL YOUTH											
Mushroom Production	5	5	0	25	0	25	0	155	0	155	180
Bee-keeping	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0	0
Vermi-culture	1	1	10	5	0	15	20	15	0	35	50
Value addition	0	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	6	10	30	0	40	20	170	0	190	230
(C) Extension Personnel											
Productivity enhancement in field crops	1	1	5	5	0	10	20	5	0	25	35
Integrated Pest Management	1	1	5	5	0	10	20	5	0	25	35
Integrated Nutrient management	1	1	5	5	0	10	20	5	0	25	35
Protected cultivation technology	1	1	5	5	0	10	20	5	0	25	35
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	1	1	5	5	0	10	20	5	0	25	35
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0	0
Production and	1	1	5	5	0	10	20	5	0	25	35

Fertility Management									
Soil fertility management	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	1	1	5	5	10	25	15	40	50
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0
IV Livestock Production and Management									
Dairy Management	0	0	0	0	0	0	0	0	0
Poultry Management	1	1	5	5	10	25	15	40	50
Disease Management	0	0	0	0	0	0	0	0	0
Feed management	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0
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	1	1	5	5	10	20	10	30	40
Storage loss minimization techniques	1	1	5	5	10	20	10	30	40
Value addition	3	1	15	5	20	50	15	65	85
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
Rural Crafts	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0
Total	5	3	25	15	40	90	35	125	165
VI Agril. Engineering	2	1	10	5	15	30	10	40	55
VII Plant Protection	1	1	5	5	10	30	10	40	50
Integrated Pest Management	1	1	5	5	10	30	10	40	50

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	1	5	5	10	20	10	30	40
Feb	Farm Women	Training On Herbal Gulal Production Technology	1	5	5	10	20	10	30	40
March	Farm Women	Training On Herbal Gulal Production Technology	1	5	5	10	20	10	30	40
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
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										
July	Farmer/Farm Women	Training on Pulse Production Technology	1	5	5	10	20	10	30	40
August	Farmer/Farm Women	Training on Pulse Production Technology	1	5	5	10	20	10	30	40
November	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	5	25	35
Oct	Farmer/Farm Women	Training on Insect Pest Management of Crop	1	5	5	10	20	5	25	35
Nov	Farmer/Farm Women	Training on Insect Pest	1	5	5	10	20	5	25	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	
		Management of Crop								
Agriculture Extension (Capacity Building and Group Dynamics)										
Jan	Farm Women	Training on oyster mushroom production technology	1	5	5	10	20	5	25	35
Feb	Farm Women	Training on oyster mushroom production technology	1	5	5	10	20	5	25	35
March	Farm Women	Training on oyster mushroom production technology	1	5	5	10	20	5	25	35
Jan	Farm Women	Training on herbal gual production technology	1	5	5	10	20	5	25	35
Feb	Farm Women	Training on herbal gual production technology	1	5	5	10	20	5	25	35
March	Farm Women	Training on herbal gual production technology	1	5	5	10	20	5	25	35
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										
Horticulture										
Livestock production										
Home Science										
Plant Protection										
March	Farm	Training on	7	0	10	10	0	20	20	30

[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	40	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	98	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	150.00 qtl
		IGKVR-2	90.00 qtl
	Wheat	CG-gehu-03	15.00 qtl
OILSEEDS	-	-	-
PULSES	Field pea	Indira Matar-1	8.00 qtl
VEGETABLES	Bottle Gourd	VNR-11	100.00 qtl
	Pumpkin	MAHY-104	100.00 qtl
FLOWER CROPS	Marigold	Hybrid	10.00 qtl

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 (Dhatara, 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	CD	International Millet Year	10
2	CD	Processing and value addition of millets	10

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	Chaparbhampur	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
January, February, August, September	International year of millets, 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
Fieldpea	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 2023

KVK Bemetara

Year of Sanction: 2017

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact			
	Office	Mobile	Email	Website
Shri Toshan Kumar Thakur	KVK, Bemetara, Village - Jhal	7067287806, 9826687395	kvk.bemetara@igkv.ac.in	kvkbemetaraigkv.org

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	Vacant	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Shri Toshan Kumar Thakur I/c	SMS	Fisheries	15600-39100	07/09/2012	02/07/2020	9826687395	toshan.thakur@gmail.com	
3	Subject Matter Specialist	Dr. (Smt) Ekta Tamrakar	SMS	Entomology	15600-39100	31/10/2014	16/08/2019	9993442554	ektatamrakar.bsp@gmail.com	
4	Subject Matter Specialist	Dr. Jitendra Kumar Joshi	SMS	Farm Machinery and Power Engg.	15600-39100	05/10/2018	05/10/2018	7805039366	jitigkv@gmail.com	
5	Subject Matter Specialist	Dr. Ku. Chetna Banjare	SMS	Horticulture	15600-39100	06/10/2018	06/10/2018	8962765997	chetna04banjare@gmail.com	
6	Subject Matter Specialist	Dr. (Smt.) Pragya Pandey	SMS	Agronomy	15600-39100	26/10/2018	26/10/2018	7415302203	gyan.pragya89@gmail.com	
7	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-	-
8	Programme Assistant	Vacant	-	-	-	-	-	-	-	-
9	Computer Programmer/ Programme Assistant	Shri Shiv Kumar Sinha	PA(Comp.)	Computer Application	9300-34800	06/09/2012	03/05/2017	7999946840	sksinhanarayanpur@gmail.com	
10	Farm Manager	Dr. Hemant Sahu	FM	Genetics & Plant Breeding	9300-34800	04/03/2020	04/03/2020	9039261949	hemant.sahupant@gmail.com	
11	Assistant	Shri Palash Choubey	AG-I	AG-I	5200-20200	10/06/2021	10/06/2021	8109092018	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	8839270321	bprasad3185@gmail.com	
13	Driver	Shri Sparsh Patel	Driver	Jeep	5200-20200	16/06/2021	16/06/2021	7724066863	sparshp610@gmail.com	
14	Driver	Vacant	-	-	-	-	-	-	-	-
15	Supporting staff	Shri Omprakash Sahu	Peon	Peon	4750-7440	15/06/2021	15/06/2021	9630288821	omprakash14081988@gmail.com	
16	Supporting staff	Vacant	-	-	-	-	-	-	-	-

1.3 Total land with KVK (in ha) : 20

S. No.	Item	Area (ha)
1	Under Buildings	0.8
2	Under Demonstration Units	0.01
3	Under Crops	7
4	Orchard/Agro-forestry	4
5	Others (Aromatic crops, Fallow Land, Pond, Road)	8
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	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 godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2019	594086.52	2238.2 hour	Good working condition
Motor Cycle 2	-	-	-	-
Bolero (Jeep)	2018	774890.00	155139 km	Good working condition
Other (Pl. specify)	-	-	-	-

C) Equipment & AV aids

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			
Computer-4	30.03.2019	84990.00	Working
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). Details of SAC meeting to be conducted in the year

Sl. No.	Tentative Date
1.	12.07.2023

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	-
4	Soybean - Chickpea	-
5	Soybean – Linseed	-

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-Sandyloam)	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 & soyabeen.
4	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.
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 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	285690
Forest	0.040
Waste Land	52.770
Other than cultivated area	-
Cultivable waste and alkaline land	5.340
Pastures	23.260
Bushes	-
Current Fallow	2.950
Other Fallow	4.400
Agricultural Land	392.585
Area Sown	23.2710
Kharif	224.398
Rabi	168.187
Zaid	1.200
Cropping Intensity	174.32%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	5365
2	Well	1116
3	Tube well	18280
4	Ponds	2525
5	Others	636
TOTAL		27922

Soil types

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 (Kanhari)	11083.58	117494.03	128577.61
5	(Kachhar	352.00	2123.88	2475.88
TOTAL		21922.00	197528.00	225450.00

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

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Paddy	1,93,763.800	4601610.00	26.67
2	Kodo-Kutki	5,544.620	63710.00	12.50
3	Pigeonpea	5,064.336	59320.00	8.20
4	Soybean	5,139.383	19350.00	9.0
5	Sugarcane	3778.097	348718.00	92.300
6	Maize	266.42	16050.00	25.90
7	Black gram	260.945	520.00	5.40
8	Green gram	14.350	350.00	5.20
9	Groundnut	1388.883	18620.00	14.90
10	Til	14.58	380.00	4.12
11	Banana	1101.00	290230.00	-
12	Guava	552.00	157670.00	-
13	Mango	1046.00	40180.00	-
14	Papaya	721.00	283530.00	-
15	Lemon	295.00	17190.00	-

16	Jack fruit	25.00	4450.00	-
17	Ber	96.00	4690.00	-
18	Anola	24.00	7500.00	-
19	Brinjal	1829.00	452950.00	-
20	Tomato	2502.00	520040.00	-
21	Turmeric	266.00	11380.00	-
22	Ginger	180.00	31200.00	-
23	Elephant foot yam	471.00	93680.00	-
24	Garlic	539.00	15960.00	-

Rabi –

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1	Wheat	51020.00	1020400.00	20.00
2	Maize	2590.00	78730.00	30.40
3	Paddy	4450.00	143190.00	32.00
4	Chickpea	70440.00	14090.00	10.0
5	Lathyrus	29010.00	49310.00	1.70
6	Pea	540.00	4450.00	8.20
7	Lentil	2820.00	17730.00	6.30
8	Green gram	10.00	20.00	1.60
9	Black gram	20.00	40.00	1.80
10	Mustard	780.00	4300.00	5.50
11	Linseed	390.00	1120.00	2.90
12	Safflower	110.00	660.00	6.10
13	Groundnut	70.00	940.00	13.0
14	Sugarcane	730.00	66912.00	92.30
15	S. Orange	10.00	660.00	-
16	Custard apple	21.00	650.00	-
17	Water Melon	83.00	15520.00	-
18	Musk Melon	116.00	11600.00	-
19	Dragon fruit	52.00	1900.00	-
20	Sapota	6.00	520.00	-
21	Pomegranate	50.00	920.00	-
22	Cauliflower	1670.00	332590.00	-
23	Onion	576.00	121230.00	-
24	Potato	946.00	554990.00	-
25	Coriander	1244.00	71320.00	-
26	Cabbage	1250.00	223750.00	-
27	Beans	302.00	20420.00	-
28	Bitter Guard	808.00	268200.00	-
29	Green Pea	699.00	71780.00	-
30	cawpea	1039.00	120290.00	-
31	Bhindi	1519.00	214400.00	-
32	Knolkhol	1008.00	189960.00	-
33	Kaddu	227.00	88660.00	-
34	Bottle guard	688.00	176170.00	-
35	Green Chilli	805.00	26100.00	-
36	Shimla Mirch	237.00	22200.00	-
37	Carrot	303.00	17650.00	-
38	Radish	314.00	36610.00	-
39	Parwal/kundru	169.00	17110.00	-
40	Methi	183.00	9150.0	-

Area and Production of major Horticulture crops cultivated in the district

S. No.	Crops	Area (In ha)	Production (In MT)
1	Fruits	4295.00	84106.00
2	Vegetables	18613.00	371928.00
3	Spices	2848.00	16561.00
4	Flowers	184.00	2156.40
5	Medicinal & Aromatic	0.00	0.00

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 2022	181	30 ⁰ c	8 ⁰ c
Feb, 2022	30.6	33 ⁰ c	10 ⁰ c
Mar, 2022	0	40 ⁰ c	17 ⁰ c
Apr, 2022	32	43 ⁰ c	21 ⁰ c
May, 2022	45.2	43 ⁰ c	21 ⁰ c
Jun, 2022	642	43 ⁰ c	23 ⁰ c
July, 2022	1285.5	33 ⁰ c	23 ⁰ c
Aug., 2022	944.6	33 ⁰ c	23 ⁰ c
Sept., 2022	512.6	33 ⁰ c	23 ⁰ c
Oct. 2022	207.4	32 ⁰ c	15 ⁰ c
Nov. 2022	0	32 ⁰ c	11 ⁰ c
Dec. 2022	0	31 ⁰ c	13 ⁰ c

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

Category	Population	Production	Productivity
Cattle	417937	94	87280164
<i>Crossbred/ Indigenous</i>		 MT.	 kg
Buffalo	54713	 MT.	 Kg
Sheep	8945		
<i>Crossbred/ Indigenous</i>		 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

Details of Operational area / Villages (2022)

Sl. No.	Subject	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Agronomy	Saja	Saja	Padumsara	Chickpea	Weed Problem	Need control (chemical)
	Agronomy	Saja	Saja	Mohabhata	Lathyrus	Conventional utera technique	Improved utera with fertilizer and insecticide
	Agronomy	Berla	Berla	Sandi	Wheat	Old varieties	New variety high yielding (Kanishka)
2	Entomology	Nawagarh	Nawagarh	Baguli, Pendri	Paddy, chick pea, Coriander & Vegetables	Panicle mite, wilting, Pod borer, insect and disease in vegetable	Need chemical control, organic pesticide
	Entomology	Berla	Berla	Sandi, Chetua, Bhand, Sankara	Paddy, wheat, chick pea, Coriander & Vegetables	Panicle mite, wilting, Pod borer, insect and disease in vegetable	Need chemical control, organic pesticide
	Entomology	Saja	Saja	Tendubhatha, Mouhabhatha	Paddy, wheat, chick pea, Coriander & Vegetables	Panicle mite, wilting, Pod borer, insect and disease in vegetable	Need chemical control, organic pesticide
3	Horticulture	Saja	Saja	Mouhabhatha	Tomato	Wilting	Use of trichoderma
4							

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 & 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

20) 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	84	FLD – 12 & CFLD -10	FLD 82 & CFLD 250

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
52	1200	160	3269

Seed Production (Qtl.)	Planting material (Nos.)
207	1354000

Action Plan 2023

Name	Designation & Discipline	OFT	FLD	Farmer Training	In-service training
Shri Toshan Kumar Thakur	SMS (Fisheries)	2	2	12	1
Dr.(Smt.) Ekta Tamrakar	SMS (Entomology)	2	2	12	2
Dr.(Smt.) Pragya Pandey	SMS (Agronomy)	3	3	20	2
Dr. Chetna Banjare	SMS (Horticulture)	4	2	9	1
Dr. Jetendra Kumar Joshi	SMS (FMPE)	2	4	30	1
TOTAL		13	13	83	7

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title e 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	Fisheries	Fish	Low fish Production in IMC/Tilapia Fish Farming in Fish Pond	Assessment of Tilapia Fish Farming in semi-biofloc 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	13	
2	Fisheries	Fish	Low yield from carp culture due to less growth during winter	Assessment of growth promoter 'Raa fres- 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		
3	Plant Protection	Paddy	Heavy loss due to severe infestation of stem fly and girdle beetle	Assessment of thiomethoxam with lamda-cyhalothrin for stem fly and girdle beetle management	Demonstration on Fenpyroximate 5EC with Propiconazole 25 EC against panicle mite in paddy crop	Integrated Pest Management in major kharif Crops	Integrated Pest Management in major kharif Crops, Integrated Pest Management in major horticulture Crops Preparation of organic insecticides,	14	
4	Plant Protect	Tomato	Reduction of natural enemies due to	Assessment of insect pest management practices under	Demonstration of IPM modules	Integrated Pest	Mushroom cultivation,		

	ion		indiscriminate use of insecticides.	natural farming against fruit borer in Tomato	against Shoot & fruit borer in Brinjal	Management in major horticulture Crops	Multiplication of Trichoderma, Integrated Pest Management in major Rabi Crops, Preparation of organic insecticides		
5	Weed Management	Soyabean	Lower yield in Soybean due to heavy weed infestation	Assessment of Chemical Weed management in Soybean	Demonstration of Integrated Weed Management in Cotton		Intercultural operations and t in Rabi crops (b)Irrigation management in Rabi crops © Natural farming (a)Harvesting and storage of Rabi crops (b)Sumer agronomic crop sowing techniques © Natural farming	22	
6	Integrated Nutrient Management	Kodo Millet	Non judicious use of fertilizer and no use of biofertilizer	Assessment of yield of Kodo millet (<i>Paspalum scrobiculatum</i> L.) under Natural Farming and conventional (Chemical) farming in Bemetara District	Demonstration on improved utera (relay cropping) technique in Lathyrus	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		
7	Weed Management	Chickpea	Assessment of Chemical Weed management in Chickpea	Assessment of Chemical Weed management in Chickpea			(a)Storage of seeds (b)Seed hub (c) Harvesting of summer agronomic crops (d) Natural farming		
8	Varietal Assessment	Wheat	Less yield due to cultivation of lower yielding variety		Assessment of performance of new Wheat variety Kanishka (C.G. – 1029) in Bemetara District		(a)Field preparation, sowing and fertilizer management of Kharif crops (b) Nursery management in Rice and DSR © Seed		

							Treatment (d) Natural farming in Kodo Weed management in Khraif crops (b) Intercultural operations in maize and sugarcane (c) Transplanting of rice Fertilizer management in kharif crops (b) Fodder maize cultivation technique © Natural farming 20) Crop diversification (b) Natural farming © Seed hub Field preparation, sowing and fertilizer management in Rabi crop (b) Silage making © Harvesting of Kharif crops (d) Natural farming in Wheat Storage of seeds (b) Irrigation management in rabi crops © Crop ration and diversification (d) Natural farming Intercultural operations (b) Natural farming © millets cultivation		
9	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	
10	Crop	Yam	Use of high seed rate	Assessment of Sprouting in Yam			Cultivation		

	Production		and costly	by cow dung slurry	Demonstration of propagation of turmeric planting materials through pro-tray		practices with use of natural farming in water melon and musk melon Sowing of turmeric and ginger rhizome in ortray technique		
11	Varietal Assessment	Tomato	Use local seed of tomato (Local collection)	Varietal assessment of Tomato (Kashi Aman) in Bemetara District			Preparation and use of beejamrita and jeevamrita in Kharif horticultural crops		
12	Varietal Assessment	Coriander	Low yield of local varieties/ Local collection	Varietal assessment of Coriander (Chhattisgarh Dhania -1) in Bemetara District			Preparation and use of beejamrita and jeevamrita in Rabi horticultural crops		
13	Agril. Engineering	Chickpea	More seed rate in broadcasting, seed to seed distance is not maintained. Animals unused for sowing	Assessment of animal drawn five row chickpea planter on farmer's field	Demonstration on DSR planter cum FYM applicator machine for sowing of rice crop on farmer's field		Farm machinery & its maintenance Balance Use of fertilizer Processing and value addition Nursery Management		
14	Agril. Engineering	Chickpea	higher seed rate, more water requirement compare to flat bed sowing	Assessment of Ridge and furrow planter for chickpea sowing on farmer's field	Demonstration on soybean-pigeonpea intercropping broadbed sowing machine on farmer's field		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	31	
					Demonstration on broad bed sowing method using of Indira soya seed drill for soybean crop		Small scale processing and value addition Post Harvest Technology Formation and Management of SHGs		
					Demonstration on tractor operated round baler machine		Entrepreneurial development of farmers/youth		

							s Capacity building for ICT application Farm machinery, tools and implements		

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
Plant Protection	1	1	-	-	2	-	-	-	-	4
Crop Production	2	2	2	-	-	-	-	-	-	6
Horticulture	-	-	-	-	6	-	-	-	-	6
Agril. Engineering	1	1	5	-	-	-	-	-	-	7
TOTAL	4	4	7	-	8	-	-	-	-	23

Abstract on the number of technologies to be assessed in respect of Livestock/Enterprises

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 Tilapia Fish Farming in semi-biofloc fish tank

Crop / Enterprise	Fish	
Title of on farm trial	Assessment of Tilapia Fish Farming in semi-biofloc fish tank	
Problem diagnosed	Low fish Production in IMC/Tilapia Fish Farming in Fish Pond	
Farmers' Practices	Tilapia Fish Farming in Fish Pond	
Details of technologies selectedfor assessment	T ₁	Stoking Density of Tilapia Fish Seed (Fingerlings) @ 3 Nos/M3 (Farmer practice)
	T ₂	Stoking Density of Tilapia Fish Seed (Fingerlings) @ 200 Nos./M3 (Research Practice)
Source of technology	Source of technology	
Plot size	-	
No. of farmers	04	
Total cost	Rs. 20000/-	
Critical input	Fish Seed/Probiotics/Molases	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield, ABW, Survival, FCR, B:C ratio	

OFT -2 : Assessment of growth promoter 'Raa fres- AQ' in maximizing fish growth and yield during winter

1	Crop / Enterprise	Fish
2	Title of on-farm trial	Assessment of growth promoter 'Raa fres- AQ' in maximizing fish growth and yield during winter
3	Problem diagnosed	Low yield from carp culture due to less growth during winter
4	Farming situation	Small to Medium pond

5	Production system and thematic area	Fish Production & Fish Pond Management
6	Farmers' practices	Application of traditional feed only for fish body growth
7	Details of technologies selected for assessment/refinement Treatments	T ₁ No use of growth promoter in fish feed (Farmer Practice)
		T ₂ Use of Growth promoter (Raa fres AQ @500g/1ton of feed as feed additive)
8	Source of technology	CIFE, Mumbai (2000), Fishery Technology, Vol. 47, No (2) : 2010
9	No. of animals	-
10	No. of farmers	04
11	Critical input	Growth promoter
12	Cost of input	Rs. 4000/- per trial (Approx.)
13	Total cost	Rs. 16000/-
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	ABW, FCR, Yield, B:C ratio

OFT -3 : : Assessment of thiomethoxam with lamda-cyhalothrin for stem fly and girdle beetle management

1	Crop / Enterprise	Soyabean
2	Title of on-farm trial	Assessment of thiomethoxam with lamda-cyhalothrin for of stem fly and girdle beetle management in soyabean
3	Problem diagnosed	Heavy loss due to severe infestation of stem fly and girdle beetle
4	Farming situation	Irrigated (Kharif 2023)
5	Production system and thematic area	IPM
6	Farmers' practices	Use of cypermethin insecticide
7	Details of technologies selected for assessment/refinement Treatments	T ₁ use of Cypermethrin insecticide
		T ₂ Seed treatment of Imidachloprid 48 FS @ 1.25g/kg seed, spraying of thiomethoxam 12.6% +lamda-cyhalothrin 9.5% ZC@125 ml/ha
8	Source of technology	NRCS, Indore 2018
9	No. of farmers	4
10	Critical input	Insecticide
11	Cost of input	Rs. 2000/- Per Trial (Approx.)
12	Total cost	Rs. 8000
13	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	stem fly infected plant, girdle beetle infected plant, Yield, B:C Ratio

OFT -4 : Assessment of insect pest management practices under natural farming against fruit borer in Tomato

1	Crop / Enterprise	Tomato
2	Title of on-farm trial	Assessment of insect pest management practices under natural farming against fruit borer in Tomato.
3	Problem diagnosed	Reduction of natural enemies due to indiscriminate use of insecticides.
4	Farming situation	Irrigated (Kharif 2023)
5	Production system and thematic area	Plant Protection (Natural Farming)
6	Farmers' practices	Indiscriminate use of Chemical insecticides
7	Details of technologies selected for assessment/refinement Treatments	T ₁ Indiscriminate use of Chemical insecticides
		T ₂ Beejamrit20 lit./100 kg seed, Jeevamrti@12.5 lit. + 250 Lit. water/ha (1 st application after 21 DAS) after this in every 21 days apply jeevamrit@25 Lit./50 Lit./12.5 Lit. Respectively, Neemastra@500 Lit./ha, bramhastra@15-20Lit. +500 Lit water / ha, Fermented butter milk @ 15-20 Lit +500 Lit water / ha

8	Source of technology	RVSKVV, Gwalior
9	No. of farmers	4
10	Critical input	Different ingredients required for preparation of beejamrit, jeevamrit, neemasthra, bramhastra etc.
11	Cost of input	Rs. 600/- per trial (Approx.)
12	Total cost	Rs. 3600/-
13	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	No .of damaged fruits /plants, Yield , B:C ratio

OFT -5 : Assessment of Chemical Weed management in Soybean

1	Crop / Enterprise	Soybean
2	Title of on-farm trial	Assessment of Chemical Weed management in Soybean
3	Problem diagnosed	Lower yield in Soybean due to heavy weed infestation
4	Farming situation	Kharif (Rainfed/Irrigated)
5	Production system and thematic area	Weed management
6	Farmers' practices	No use of herbicides
7	Details of technologies selected for assessment/refinement Treatments	T ₁ One hand weeding at 30 DAS
		T ₂ Fenoxaprop-p-ethyl @32-40 g a.i. / acre (2-3 leaf stage of weed)
		T ₃ Quizalofop ethyle @16-20 g a.i. / acre (2-3 leaf stage of weed)
8	Source of technology	IGKV Raipur
9	No. of farmers	05
10	Critical input	Herbicide
11	Cost of input	Rs. 600/- per trial (Approx.)
12	Total cost	Rs. 3000/-
13	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Weed index, Yield q/ha, Net return, B:C ratio

OFT -6 : Assessment of yield of Kodo millet (*Paspalum scrobiculatum* L.) under Natural Farming and conventional (Chemical) farming in Bemetara District

1	Crop / Enterprise	Kodo Millet
2	Title of on-farm trial	Assessment of yield of Kodo millet (<i>Paspalum scrobiculatum</i> L.) under Natural Farming and conventional (Chemical) farming in Bemetara District
3	Problem diagnosed	Injudicious use of chemical and soil deterioration
4	Farming situation	Kharif (Rainfed/Irrigated)
5	Production system and thematic area	Crop production (Natural farming)
6	Farmers' practices	Conventional package and practices
7	Details of technologies selected for assessment/refinement Treatments	T ₁ 20:20:10::N:P:K kg/ha
		T ₂ Beejamrit 20 lit./100 kg seed, Jeevamrti @ 12.5 lit. + 250 Lit. water/ha (1 st application after 21 DAS) after this in every 21 days apply jeevamrit @ 25 Lit./50 Lit./12.5 Lit. Respectively, Neemasthra @ 500 Lit./ha, bramhastra @ 15-20 Lit. + 500 Lit water / ha, Fermented butter milk @ 15-20 Lit + 500 Lit water / ha
8	Source of technology	Name of Book – Prakritik Kheti: Adhunik Krishi me Navachar, Published by: DES, RVSKVV, Gwalior, MP (2022)

9	No. of farmers	04
10	Critical input	Different ingredients used in Natural farming (Cow urine, Cow dung, Jaggery, Lime, Chickpea flour etc.)
11	Cost of input	4000
12	Total cost	-
13	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Soil testing , Yield (q/ha), B: C ratio

OFT -7 : Assessment of Chemical Weed management in Chickpea

1	Crop / Enterprise	Chickpea
2	Title of on-farm trial	Assessment of Chemical Weed management in Chickpea
3	Problem diagnosed	Lower yield in Chickpea due to heavy weed infestation
4	Farming situation	Rabi (Irrigated)
5	Production system and thematic area	Weed management
6	Farmers' practices	No use of post emergence herbicide
7	Details of technologies selected for assessment/refinement Treatments	T ₁ One hand weeding at 30 DAS
		T ₂ Topramezone @ 19.4g a.i. Per Ha (20-25 DAS for Broad leaves weed)
8	Source of technology	IGKV Raipur
9	No. of farmers	03
10	Critical input	Herbicide
11	Cost of input	Rs. 1000/- per trial. (Approx.)
12	Total cost	Rs. 4000/-
13	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Weed index, Yield q/ha, Net return, B:C ratio

OFT -8: Assessment of Different tools of Natural Farming in Tomato in Bemetara District

1	Crop / Enterprise	Tomato
2	Title of on-farm trial	Assessment of different tools of Natural Farming in Tomato in Bemetara District
3	Problem diagnosed	Soil deterioration due to excess use of chemicals
4	Farming situation	Kharif (Rainfed/Irrigated)
5	Production system and thematic area	Crop production (Natural Farming)
6	Farmers' practices	Conventional package and practices
7	Details of technologies selected for assessment/refinement Treatments	T ₁ Farmer Practice
		T ₂ Seed treatment by Beejamrit and application of Jeevamrit/Ghan jeevamrit
8	Source of technology	Name of Book – Prakritik Kheti: Adhunik Krishi me Navachar Published by: DES, RVSKVV, Gwalior, MP(2022)
9	No. of farmers	04
10	Critical input	Different ingredients use in natural farming (cow urine, cow dung, ortray etc.)
11	Cost of input	Rs. 500/- per trial. (Approx.)

12	Total cost	Rs. 2000/-
13	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	1. Soil testing , 2. Yield (q/ha), 3. B: C ratio

OFT -9: Assessment of Sprouting in Yam by cow dung slurry

1	Crop / Enterprise	Elephant Foot Yam
2	Title of on-farm trial	Assessment of Sprouting in Yam by cow dung slurry
3	Problem diagnosed	Use of high seed rate and costly seed
4	Farming situation	Kharif (Rainfed/Irrigated)
5	Production system and thematic area	Crop production (ITK)
6	Farmers' practices	Conventional package and practices
7	Details of technologies selected for assessment/refinement Treatments	T ₁ Seed (100 gm) treatment by cow dung slurry and application of Jeevamrit/Ghanjeevamrit T ₂ Seed (150 gm) treatment by cow dung slurry and application of Jeevamrit/Ghanjeevamrit T ₃ Seed (200 gm) treatment by cow dung slurry and application of Jeevamrit/Ghanjeevamrit
8	Source of technology	Name of Book- Traditional Knowledge in Agriculture, Published by: ICAR-ATARI, Jabalpur, MP (2020).
9	No. of farmers	04
10	Critical input	Cow dung, cow urine, chickpea flour etc.
11	Cost of input	Rs. 500/- per trial. (Approx.)
12	Total cost	Rs. 2000/-
13	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	1. Soil testing , 2. Germination percentage (%), 3.Yield (q/ha), 4. B: C ratio

OFT -10: Varietal assessment of Tomato (Kashi Aman) in Bemetara District

1	Crop / Enterprise	Tomato (Kashi Aman)
2	Title of on-farm trial	Varietal assessment of Tomato (Kashi Aman) in Bemetara District
3	Problem diagnosed	Use local seed of tomato (Local collection)
4	Farming situation	Kharif (Rainfed/Irrigated)
5	Production system and thematic area	Varietal evaluation
6	Farmers' practices	Use Local seed of tomato (Local collection)
7	Details of technologies selected for assessment/refinement Treatments	T ₁ Farmer Practice T ₂ Use of High yielding variety – Kashi Aman
8	Source of technology	Indian Institute of Vegetable Research (IIVR), Varanasi
9	No. of farmers	04
10	Critical input	Tomato (Kashi Aman) seed
11	Cost of input	Rs. 1000/- per trial. (Approx.)
12	Total cost	Rs. 4000/-
13	Performance indicators Observation to be	1. Yield (q/ha), 2. B: C ratio

	recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

OFT -11: Varietal assessment of Coriander (Chhattisgarh Dhanias -1) in Bemetara District

1	Crop / Enterprise	Coriander (Chhattisgarh Dhanias -1)
2	Title of on-farm trial	Varietal assessment of Coriander (Chhattisgarh Dhanias -1) in Bemetara District
3	Problem diagnosed	Low yield of local varieties/ Local collection
4	Farming situation	Rabi (Irrigated)
5	Production system and thematic area	Varietal evaluation
6	Farmers' practices	Use of local variety
7	Details of technologies selected for assessment/refinement Treatments	T ₁ Farmer Practice
		T ₂ Use of High yielding variety Chhattisgarh Dhanias -1
8	Source of technology	IGKV, Raipur (C.G.)
9	No. of farmers	04
10	Critical input	Coriander (Chhattisgarh Dhanias -1) seed
11	Cost of input	Rs. 1000/- per trial. (Approx.)
12	Total cost	Rs. 4000/-
13	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	1. Yield (q/ha), 2. B: C ratio

OFT -12 : Assessment of animal drawn five row chickpea planter on farmer's field

1	Crop / Enterprise	Chickpea crop
2	Title of on-farm trial	Assessment of animal drawn five row chickpea planter on farmer's field
3	Problem diagnosed	More seed rate in broadcasting, seed to seed distance is not maintained. Animals unused for sowing
4	Farming situation	Rabi – Irrigated
5	Production system and thematic area	Use of Improved Animal drawn farm implements / Utilization of Animal Energy (UAE)
6	Farmers' practices	Broadcasting
7	Details of technologies selected for assessment/refinement Treatments	T ₁ Broadcasting sowing
		T ₂ Animal drawn five row chickpea planter Sowing
8	Source of technology	IGKV Raipur
9	No. of farmers	4
10	Critical input	Animal drawn five row chickpea planter sowing machine
11	Cost of input	Rs. 400/- (Approx.)
12	Total cost	Rs. 2000/-
13	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Field capacity (ha/h) , cost economic field efficiency %, crop yield (kg/ha)

OFT -13 : Assessment of Ridge and furrow planter for chickpea sowing on farmer's field

1	Crop / Enterprise	Chickpea crop
2	Title of on-farm trial	Assessment of Ridge and furrow planter for chickpea sowing on farmer's field.
3	Problem diagnosed	higher seed rate, more water requirement compare to flat bed sowing
4	Farming situation	Rabi – Irrigated
5	Production system and thematic area	Resources conservation technology
6	Farmers' practices	Broadcasting
7	Details of technologies selected for assessment/refinement Treatments	T ₁ Seed cum fertilizer drill sowing
		T ₂ Ridge and furrow planter sowing
		T ₃ Broadcasting
8	Source of technology	IGKV Raipur
9	No. of farmers	4
10	Critical input	Ridge and furrow planter sowing machine
11	Cost of input	400
12	Total cost	2000
13	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Field capacity, fuel consumption, cost economic field efficiency %, crop yield

Detailed Information about OFT: 1-13

OFT-1

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Shri Toshan Kumar Thakur (Fisheries)
Title of on-farm trial:	Assessment of Tilapia Fish Farming in semi-biofloc fish tank
Year/Season:	2023-24
Farming situation:	Small to medium tank
Problem diagnosis:	Low fish Production in IMC/Tilapia Fish Farming in Fish Pond
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-	Stoking Density of Tilapia Fish Seed (Fingerlings) @ 3 Nos/M3 (Farmer practice)
T2 –Recommended Practice-	Stoking Density of Tilapia Fish Seed (Fingerlings) @ 200 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 (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Shri Toshan Kumar Thakur (Fisheries)
Title of on-farm trial:	Assessment of growth promoter ‘Raa fres- AQ’ in maximizing fish growth and yield during winter
Year/Season:	2023-24
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-	No use of growth promoter in fish feed (Farmer Practice)

T2 –Recommended Practice-	Use of Growth promoter (Raa fres 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 (like Agronomy/Horticulture/ Soil Science/ Plant Protection /Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Dr.(Smt.) Ekta Tamrakar, (Plant Protection)
Title of on-farm trial:	Assessment of thiomethoxam with lamda-cyhalothrin for of stem fly and girdle beetle management in soyabean
Year/Season:	2023-24
Farming situation:	Irrigated (Kharif 2023)
Problem diagnosis:	Heavy loss due to severe infestation of stem fly and girdle beetle
Thematic area:	IPM
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 Cypermethrin insecticide
T2 –Recommended Practice-	Seed treatment of Imidachloprid 48 FS @ 1.25g/kg seed, spraying of thiomethoxam 12.6% +lamda-cyhalothrin 9.5% ZC@125 ml/ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NRCS, Indore 2018
Characteristics of technology:	-
Name of Crop/Enterprises:	Soyabean
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)	Dr.(Smt.) Ekta Tamrakar, (Plant Protection)
Title of on-farm trial:	Assessment of insect pest management practices under natural

	farming against fruit borer in Tomato.
Year/Season:	2023-24
Farming situation:	Irrigated (Kharif 2023)
Problem diagnosis:	Reduction of natural enemies due to indiscriminate use of insecticides.
Thematic area:	Plant Protection (Natural Farming)
No of trials:	1.6
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Indiscriminate use of Chemical insecticides
T2 –Recommended Practice-	Beejamrit20 lit./100 kg seed, Jeevamrti@12.5 lit. + 250 Lit. water/ha (1 st application after 21 DAS) after this in every 21 days apply jeevamrit@25 Lit./50 Lit./12.5 Lit. Respectively, Neemastra@500 Lit./ha, bramhastra@15-20Lit. +500 Lit water / ha, Fermented butter milk @ 15-20 Lit +500 Lit water / ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	RVSKVV, Gwalior
Characteristics of technology:	-
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-5

Name of Discipline (like Agronomy /Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Dr. (Smt.) Pragya Pandey (Agronomy)
Title of on-farm trial:	Assessment of Chemical Weed management in Soybean
Year/Season:	2023-24
Farming situation:	Kharif (Rainfed/Irrigated)
Problem diagnosis:	Lower yield in Soybean due to heavy weed infestation
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-	One hand weeding at 30 DAS
T2 –Recommended Practice-	Fenoxaprop-p-ethyl @32-40 g a.i. / acre (2-3 leaf stage of weed)
T3- Recommended Practice-	Quizalofop ethyle @16-20 g a.i. / acre (2-3 leaf stage of weed)
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Soybean

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

OFT-6

Name of Discipline (like Agronomy /Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Dr. (Smt.) Pragya Pandey (Agronomy)
Title of on-farm trial:	Assessment of yield of Kodo millet (<i>Paspalum scorbiculatum</i> L.) under Natural Farming and conventional (Chemical) farming in Bemetara District
Year/Season:	2023-24
Farming situation:	Kharif (Rainfed/Irrigated)
Problem diagnosis:	Injudicious use of chemical and soil deterioration
Thematic area:	Crop production (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-	20:20:10::N:P:K kg/ha
T2 –Recommended Practice-	Beejamrit20 lit./100 kg seed, Jeevamrti@12.5 lit. + 250 Lit. water/ha (1 st application after 21 DAS) after this in every 21 days apply jeevamrit@25 Lit./50 Lit./12.5 Lit. Respectively, Neemastra@500 Lit./ha, bramhastra@15-20Lit. +500 Lit water / ha, Fermented butter milk @ 15-20 Lit +500 Lit water / ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Name of Book – Prakritik Kheti: Adhunik Krishi me Navachar, Published by: DES, RVSKVV, Gwalior, MP (2022)
Characteristics of technology:	-
Name of Crop/Enterprises:	Kodo Millet
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-7

Name of Discipline (like Agronomy /Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Dr. (Smt.) Pragya Pandey (Agronomy)
Title of on-farm trial:	Assessment of Chemical Weed management in Chickpea
Year/Season:	2023-24
Farming situation:	Rabi (Irrigated)
Problem diagnosis:	Lower yield in Chickpea due to heavy weed infestation

Thematic area:	Weed Management
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	One hand weeding at 30 DAS
T2 –Recommended Practice-	Topramezone @ 19.4g a.i. Per Ha (20-25 DAS for Broad leaves weed)
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-8

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Dr. Chetna Banjare (Horticulture)
Title of on-farm trial:	Assessment of different tools of Natural Farming in Tomato in Bemetara District
Year/Season:	2023-24
Farming situation:	Kharif (Rainfed/Irrigated)
Problem diagnosis:	Soil deterioration due to excess use of chemicals
Thematic area:	Crop production (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-	Farmer Practice
T2 –Recommended Practice-	Seed treatment by Beejamrit and application of Jeevamrit/Ghan jeevamrit
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Name of Book – Prakritik Kheti: Adhunik Krishi me Navachar Published by: DES, RVSKVV, Gwalior, MP(2022)
Characteristics of technology:	-
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-9

Name of Discipline (like Agronomy/ Horticulture / Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Dr. Chetna Banjare (Horticulture)
Title of on-farm trial:	Assessment of Sprouting in Yam by cow dung slurry
Year/Season:	2023-24
Farming situation:	Kharif (Rainfed/Irrigated)
Problem diagnosis:	Use of high seed rate and costly seed
Thematic area:	Crop production (ITK)
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-	Seed (100 gm) treatment by cow dung slurry and application of Jeevamrit/Ghan jeevamrit
T2 –Recommended Practice-	Seed (150 gm) treatment by cow dung slurry and application of Jeevamrit/Ghan jeevamrit
T3- Recommended Practice-	Seed (200 gm) treatment by cow dung slurry and application of Jeevamrit/Ghan jeevamrit
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Name of Book- Traditional Knowledge in Agriculture, Published by: ICAR-ATARI, Jabalpur, MP (2020).
Characteristics of technology:	-
Name of Crop/Enterprises:	Elephant Foot Yam
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)	Dr. Chetna Banjare (Horticulture)
Title of on-farm trial:	Varietal assessment of Tomato (Kashi Aman) in Bemetara District
Year/Season:	2023-24
Farming situation:	Kharif (Rainfed/Irrigated)
Problem diagnosis:	Use local seed of tomato (Local collection)
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-	Farmer Practice
T2 –Recommended Practice-	Use of High yielding variety – Kashi Aman
T3- Recommended Practice-	-

Date of sowing:	-
Date of harvesting:	-
Source of technology:	Indian Institute of Vegetable Research (IIVR), Varanasi
Characteristics of technology:	-
Name of Crop/Enterprises:	Tomato (Kashi Aman)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-11

Name of Discipline (like Agronomy/ Horticulture / Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Dr. Chetna Banjare (Horticulture)
Title of on-farm trial:	Varietal assessment of Coriander (Chhattisgarh Dhania -1) in Bemetara District
Year/Season:	2023-24
Farming situation:	Rabi (Irrigated)
Problem diagnosis:	Low yield of local varieties/ Local collection
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-	Farmer Practice
T2 –Recommended Practice-	Use of High yielding variety Chhattisgarh Dhania -1
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur (C.G.)
Characteristics of technology:	-
Name of Crop/Enterprises:	Coriander (Chhattisgarh Dhania -1)
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)	Dr. Jitendra Kumar Joshi (Agri Engineering)
Title of on-farm trial:	Assessment of animal drawn five row chickpea planter on farmer's field
Year/Season:	2023-24
Farming situation:	Rabi – Irrigated
Problem diagnosis:	More seed rate in broadcasting, seed to seed distance is not maintained. Animals unused for sowing
Thematic area:	Use of Improved Animal drawn farm implements / Utilization of Animal Energy (UAE)
No of trials:	05
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Broadcasting sowing
T2 –Recommended Practice-	Animal drawn five row chickpea planter Sowing
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Chickpea crop
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)	Dr. Jitendra Kumar Joshi (Agri Engineering)
Title of on-farm trial:	Assessment of Ridge and furrow planter for chickpea sowing on farmer's field.
Year/Season:	2023-24
Farming situation:	Rabi – Irrigated
Problem diagnosis:	Higher seed rate, more water requirement compare to flat bed sowing
Thematic area:	Resources conservation technology
No of trials:	05
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Seed cum fertilizer drill sowing
T2 –Recommended Practice-	Ridge and furrow planter sowing
T3- Recommended Practice-	Broadcasting

Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Chickpea Crop
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 ortra 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	Fish	Fish Production	Composite fish farming	Fish Seed	2023-24	2	05	ABW, Yield, B:C ratio
2	Fish	Fish Pond Management	Fish feed Management	Vitamin and Mineral Premix	2023-24	2	05	ABW, Yield, B:C ratio
3	Paddy	Plant Protection	Demonstration of Fenpyroximate 5EC @ 300ml /ha + Propiconazole 25 EC @300ml/ha against panicle mite in paddy crop.(Two application at booting and panicle initiation stage)	Pesticide recommended in trial	Kharif 2023	3.2	8	No. of healthy grains/ No. of discolored grains /No. of chaffy grains per panicle, Yield , B:C ratio
4	Brinjal	IPM	Pheromone trap@20/ha, use of neem product 3000 ppm @ 1L/ha, need based spray of insecticide	Pheromone lure, biopesticides	Rabi 2023	2.4	6	No. of damaged fruits / Plant, No. of insects/trap, Yield ,B:C ratio
5	Cotton	Weed management	Integrated Weed Management	Herbicide	Kharif 2023	1.6	04	Plant height, No. of balls per plant, Yield,, B:C ratio
6	Lathyrus	Crop production	Improved Utera cultivation of Lathyrus	Biofertilizer, NPK (19:19:19)	Rabi 2023	1.6	04	Plant height, No. of Pods per plant, Yield,, B:C ratio
7	Wheat	Crop production	Varietal assessment	Seed	Rabi 2023	1.6	04	Plant height, No. effective tillers, Yield, B:C ratio
8	Ginger	Crop Production	Raising of ginger seedlings in or tray methods	Seedlings	Kharif 2023	10	05	1. No. of Rhizome / plant , 2. Weight (gm./plant), 3. Yield (qt./ha) 4. B:C ratio

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified for performance evaluation
9	Turmeric	Crop Production	Raising of turmeric seedlings in ortray methods	Seedlings	Kharif 2023	10	05	1. No. of Rhizome / plant , 2. Weight (gm./plant), 3. Yield (qt./ha) 4. B:C ratio
10	Rice	Agricultural Engineering	Resources conservation technology	DSR Inclined plate planter cum FYM applicator machine	<i>Kharif</i> season, 2023	4	6	Fertilizer rate (Kg/ha), Organic Matter (%), Field capacity, fuel consumption, cost economic, field efficiency % Crop yield (kg/ha)
11	Soybean-pigeonpea	Agricultural Engineering	Resources conservation technology /Farm Mechanization	Soybean-pigeonpea intercropping broadbed sowing machine	<i>Kharif</i> season, 2023	4	6	Plant mortality %, Field capacity (ha/h) , fuel consumption (l/ha), cost economic field efficiency %, crop yield (kg/ha)
12	Soybean	Agricultural Engineering	Resources Conservation Technology	Indira soya seed drill machine	<i>Kharif</i> season, 2023	4	7	Plant mortality %, Field capacity, Fuel consumption, Cost economic, Field efficiency %, Crop yield
13	Paddy	Agricultural Engineering	Paddy Straw Management	Tractor operated round baler machine	<i>Rabi</i> season, 2023	4	8	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)

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

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- 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

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

Other Enterprises- 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

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Pigeon pea	CRP	Seed treatment, line sowing, pest management	Seed' pesticide	Kharif-2013	20	35	Yield, B:C ratio No. of pods / plant height
2	Sesama	CRP	Seed treatment, line sowing, pest management	Seed' pesticide	Kharif-2013	10	20	Yield, B:C ratio No. of pods / plant height
3	Chickpea	CRP	Seed treatment, line sowing, pest management	Seed' pesticide	Rabi 2023-24	20	40	Yield, B:C ratio No. of pods / plant height
4	Field pea	CRP	Seed treatment, line sowing, pest management	Seed' pesticide	Rabi 2023-24	20	40	Yield, B:C ratio No. of pods / plant height
5	Lathyrus	CRP	Seed treatment, zero tillage method of sowing	Seed' pesticide	Rabi 2023-24	10	15	Yield, B:C ratio No. of pods / plant height
6	Mustard	CRP	Seed treatment, line sowing	Seed' pesticide	Rabi 2023-24	10	20	Yield, B:C ratio No. of pods / plant height
7	Green Gram	CRP	Seed treatment, line sowing	Seed' pesticide	Summer 2023-24	10	15	Yield, B:C ratio No. of pods / plant height
8	Black Gram	CRP	Seed treatment, line sowing	Seed' pesticide	Summer 2023-24	10	15	Yield, B:C ratio No. of pods / plant height

Extension and Training activities under CFLDs Oilseed and Pulses

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

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	05	05	20	05	25	20	05	25	50
Resource Conservation Technologies	05	05	20	05	25	20	05	25	50
Integrated Farming	05	05	20	05	25	20	05	25	50
Water management	05	05	20	05	25	20	05	25	50
Seed production	05	05	20	05	25	20	05	25	50
Integrated Crop Management	05	05	20	05	25	20	05	25	50
Total	30	30	120	30	150	120	30	150	300
II Horticulture									
a) Vegetable & fruit Crops	05	05	20	05	25	20	05	25	50
Off-season vegetables	05	05	20	05	25	20	05	25	50
Protective cultivation (Green Houses, Shade Net etc.)	05	05	20	05	25	20	05	25	50
Total	15	15	60	15	75	60	15	75	150
b) Fruits	05	05	20	05	25	20	05	25	50
Management of young plants/orchards	05	05	20	05	25	20	05	25	50
Total	10	10	40	10	50	40	10	50	100
c) Ornamental Plants	05	05	20	05	25	20	05	25	50
Total	05	05	20	05	25	20	05	25	50
d) Plantation crops	05	05	20	05	25	20	05	25	50
Total	05	05	20	05	25	20	05	25	50
e) Tuber crops	05	05	20	05	25	20	05	25	50
Total	05	05	20	05	25	20	05	25	50
f) Spices	05	05	20	05	25	20	05	25	50
Production and Management technology	05	05	20	05	25	20	05	25	50
Total	10	10	40	10	50	40	10	50	100
g) Medicinal and Aromatic Plants	05	05	20	05	25	20	05	25	50

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Production and management technology	05	05	20	05	25	20	05	25	50
Total	10	10	40	10	50	40	10	50	100
Grand total (Horticulture)	90	90	360	90	450	360	90	450	900
III Soil Health and Fertility Management-Nil									
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-Nil									
Dairy Management	-	-	-	-	-		-	-	-
Poultry Management	-	-	-	-	-		-	-	-
Disease Management	-	-	-	-	-		-	-	-
Feed management	-	-	-	-	-		-	-	-
Production of quality animal products	-	-	-	-	-		-	-	-
Total	-	-	-	-	-		-	-	-
V Home Science/Women empowerment-Nil									
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	-	-	-	-	-		-	-	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies	-	-	-	-			-	-	-
Women and child care	-	-	-	-	-	-	-	-	-
Total	0	0	0	0	0	0	0	0	0
VI Agril. Engineering									
VII Plant Protection	05	05	20	05	25	20	05	25	50
Integrated Pest Management	05	05	20	05	25	20	05	25	50
Integrated Disease Management	05	05	20	05	25	20	05	25	50
Bio-control of pests and diseases	05	05	20	05	25	20	05	25	50
Production of bio control agents and bio pesticides	05	05	20	05	25	20	05	25	50
Total	25	25	100	25	125	100	25	125	250
VIII Fisheries									
Integrated fish farming	05	05	20	05	25	20	05	25	50
Total	05	05	20	05	25	20	05	25	50
IX Production of Inputs at site	05	05	20	05	25	20	05	25	50
Vermi-compost production	05	05	20	05	25	20	05	25	50
Organic manures production	05	05	20	05	25	20	05	25	50
Total	15	15	60	15	75	60	15	75	150
X Capacity Building and Group Dynamics	05	05	20	05	25	20	05	25	50
Leadership development	05	05	20	05	25	20	05	25	50
Group dynamics	05	05	20	05	25	20	05	25	50
Formation and Management of SHGs	05	05	20	05	25	20	05	25	50
Mobilization of social capital	05	05	20	05	25	20	05	25	50
Entrepreneurial development of farmers/youths	05	05	20	05	25	20	05	25	50
WTO and IPR issues	05	05	20	05	25	20	05	25	50
Total	35	35	140	35	175	140	35	175	350
XI Agro-	05	05	20	05	25	20	05	25	50

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
forestry									
Total	05	05	20	05	25	20	05	25	50
XII Others (Pl. Specify)	05	05	20	05	25	20	05	25	50
Grand Total	90	90	450	90	450	360	90	450	900
(B) RURAL YOUTH									
Mushroom Production	05	05	20	05	25	20	05	25	50
Bee-keeping	05	05	20	05	25	20	05	25	50
Seed production	05	05	20	05	25	20	05	25	50
Planting material production	05	05	20	05	25	20	05	25	50
Vermi-culture	05	05	20	05	25	20	05	25	50
Value addition	05	05	20	05	25	20	05	25	50
Sheep and goat rearing	05	05	20	05	25	20	05	25	50
Para extension workers	05	05	20	05	25	20	05	25	50
TOTAL	40	40	160	40	200	160	40	200	400
© Extension Personnel									
Productivity enhancement in field crops	05	05	20	05	25	20	05	25	50
Integrated Pest Management	05	05	20	05	25	20	05	25	50
Integrated Nutrient management	05	05	20	05	25	20	05	25	50
Protected cultivation technology	05	05	20	05	25	20	05	25	50
Group Dynamics and farmers organization	05	05	20	05	25	20	05	25	50
Capacity building for ICT application	05	05	20	05	25	20	05	25	50
Livestock feed and fodder production	05	05	20	05	25	20	05	25	50
Production and use of organic inputs	05	05	20	05	25	20	05	25	50
Gender mainstreaming through SHGs	05	05	20	05	25	20	05	25	50
Any other (Pl. Specify)	05	05	20	05	25	20	05	25	50
TOTAL	50	50	200	50	250	200	50	250	500

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	05	05	20	05	25	20	05	25	50
Resource Conservation Technologies	05	05	20	05	25	20	05	25	50
Integrated Farming	05	05	20	05	25	20	05	25	50
Water management	05	05	20	05	25	20	05	25	50
Seed production	05	05	20	05	25	20	05	25	50
Integrated Crop Management	05	05	20	05	25	20	05	25	50
Total	30	30	120	30	150	120	30	150	300
II Horticulture									
a) Vegetable & fruit Crops	05	05	20	05	25	20	05	25	50
Off-season vegetables	05	05	20	05	25	20	05	25	50
Protective cultivation (Green Houses, Shade Net etc.)	05	05	20	05	25	20	05	25	50
Total	15	15	60	15	75	60	15	75	150
b) Fruits	05	05	20	05	25	20	05	25	50
Management of young plants/orchards	05	05	20	05	25	20	05	25	50
Total	10	10	40	10	50	40	10	50	100
c) Ornamental Plants	05	05	20	05	25	20	05	25	50
Total	05	05	20	05	25	20	05	25	50
d) Plantation crops	05	05	20	05	25	20	05	25	50
Total	05	05	20	05	25	20	05	25	50
e) Tuber crops	05	05	20	05	25	20	05	25	50
Total	05	05	20	05	25	20	05	25	50
f) Spices	05	05	20	05	25	20	05	25	50
Production and Management technology	05	05	20	05	25	20	05	25	50
Total	10	10	40	10	50	40	10	50	100
g) Medicinal and Aromatic Plants	05	05	20	05	25	20	05	25	50
Production and management technology	05	05	20	05	25	20	05	25	50
Total	10	10	40	10	50	40	10	50	100
Grand total (Horticulture)	90	90	360	90	450	360	90	450	900
III Soil Health and Fertility Management- Nil									
Soil fertility management	-	-	-	-	-		-	-	-
Soil and Water Conservation	-	-	-	-	-		-	-	-
Integrated Nutrient Management	-	-	-	-	-		-	-	-

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
VII Plant Protection	05	05	20	05	25	20	05	25	50
Integrated Pest Management	05	05	20	05	25	20	05	25	50
Integrated Disease Management	05	05	20	05	25	20	05	25	50
Bio-control of pests and diseases	05	05	20	05	25	20	05	25	50
Production of bio control agents and bio pesticides	05	05	20	05	25	20	05	25	50
Total	25	25	100	25	125	100	25	125	250
VIII Fisheries									
Integrated fish farming	05	05	20	05	25	20	05	25	50
Total	05	05	20	05	25	20	05	25	50
IX Production of Inputs at site	05	05	20	05	25	20	05	25	50
Vermi-compost production	05	05	20	05	25	20	05	25	50
Organic manures production	05	05	20	05	25	20	05	25	50
Total	15	15	60	15	75	60	15	75	150
X Capacity Building and Group Dynamics	05	05	20	05	25	20	05	25	50
Leadership development	05	05	20	05	25	20	05	25	50
Group dynamics	05	05	20	05	25	20	05	25	50
Formation and Management of SHGs	05	05	20	05	25	20	05	25	50
Mobilization of social capital	05	05	20	05	25	20	05	25	50
Entrepreneurial development of farmers/youths	05	05	20	05	25	20	05	25	50
WTO and IPR issues	05	05	20	05	25	20	05	25	50
Total	35	35	140	35	175	140	35	175	350
XI Agro-forestry	05	05	20	05	25	20	05	25	50
Total	05	05	20	05	25	20	05	25	50
XII Others (Pl. Specify)	05	05	20	05	25	20	05	25	50
Grand Total	90	90	450	90	450	360	90	450	900
(B) RURAL YOUTH									
Mushroom Production	05	05	20	05	25	20	05	25	50
Bee-keeping	05	05	20	05	25	20	05	25	50
Seed production	05	05	20	05	25	20	05	25	50
Planting material	05	05	20	05	25	20	05	25	50

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
production									
Vermi-culture	05	05	20	05	25	20	05	25	50
Value addition	05	05	20	05	25	20	05	25	50
Sheep and goat rearing	05	05	20	05	25	20	05	25	50
Para extension workers	05	05	20	05	25	20	05	25	50
TOTAL	40	40	160	40	200	160	40	200	400
© Extension Personnel									
Productivity enhancement in field crops	05	05	20	05	25	20	05	25	50
Integrated Pest Management	05	05	20	05	25	20	05	25	50
Integrated Nutrient management	05	05	20	05	25	20	05	25	50
Protected cultivation technology	05	05	20	05	25	20	05	25	50
Group Dynamics and farmers organization	05	05	20	05	25	20	05	25	50
Capacity building for ICT application	05	05	20	05	25	20	05	25	50
Livestock feed and fodder production	05	05	20	05	25	20	05	25	50
Production and use of organic inputs	05	05	20	05	25	20	05	25	50
Gender mainstreaming through SHGs	05	05	20	05	25	20	05	25	50
Any other (Pl. Specify)	05	05	20	05	25	20	05	25	50
TOTAL	50	50	200	50	250	200	50	250	500

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 – Agronomy										
Jan		a) Intercultural operations and t in Rabi crops b) Irrigation management in Rabi crops © Natural farming	1	5	5	10	8	7	15	25
Feb		c) Harvesting and storage of Rabi crops d) Sumer agronomic crop sowing techniques © Natural farming	1	5	5	10	8	7	15	25
Mar		e) Harvesting and storage of rabi crops and sowing of maize (b) Sugarcane cultivation © Natural farming importance of millets	1	5	5	10	8	7	15	25
April		a) 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		b) Storage of seeds (b)Seed hub (c) Harvesting of summer agronomic crops (d) Natural farming	1	5	5	10	8	7	15	25
Jun		c) Field preparation, sowing and fertilizer management of Kharif crops (b) Nursery management in Rice and DSR © Seed Treatment (d)	1	5	5	10	8	7	15	25

		Natural farming in Kodo								
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
Sep		a) Crop diversification (b) Natural farming © Seed hub	1	5	5	10	8	7	15	25
Oct		a) Field preparation, sowing and fertilizer management in Rabi crop (b) Silage making © Harvesting of Kharif crops (d) Natural farming in Wheat	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 ortray 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

[illegible]

Home Science-Nil

[illegible]

Plant Protection – Entomology										
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
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	1	05	03	08	12	5	17	25

		Farming Technology								
Dec		Processing & Value addition of Fish	1	05	03	08	12	5	17	25
Agri Engineering										
Jan		Farm machinery & its maintenance	6	10	2	12	5	3	8	20
Feb		Balance Use of fertilizer	6	10	2	12	5	3	8	20
March		Processing and value addition	12	20	4	24	10	6	16	40
April		Nursery Management	6	10	2	12	5	3	8	20
May		Installation and maintenance of micro irrigation systems	12	20	4	24	10	6	16	40
June		Use of Plastics in farming practices	6	10	2	12	5	3	8	20
July		Production of small tools and implements	12	20	4	24	10	6	16	40
July		Repair and maintenance of farm machinery and implements	12	20	4	24	10	6	16	40
Sept		Small scale processing and value addition	12	20	4	24	10	6	16	40
Sept		Post Harvest Technology	6	10	2	12	5	3	8	20
Oct		Formation and Management of SHGs	12	20	4	24	10	6	16	40
Oct		Entrepreneurial development of farmers/youths	6	10	2	12	5	3	8	20
Nov		Capacity building for ICT application	6	10	2	12	5	3	8	20
Dec		Farm machinery, tools and implements	12	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 – Agronomy										
Jan		Intercultural operations and t in Rabi crops Irrigation management in Rabi crops ©	1	5	5	10	8	7	15	25

		Natural farming								
Feb		Harvesting and storage of Rabi crops Sumer agronomic crop sowing techniques © Natural farming	1	5	5	10	8	7	15	25
Mar		Harvesting and storage of rabi crops and sowing of maize (b) Sugarcane cultivation © Natural farming importance of millets	1	5	5	10	8	7	15	25
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 (b) Nursery management in Rice and DSR © Seed Treatment (d) Natural farming in Kodo	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	1	5	5	10	8	7	15	25

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
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 addition of Fish	1	05	03	08	12	5	17	25
Agri Engineering										
Jan		Farm machinery & its maintenance	6	10	2	12	5	3	8	20
Feb		Balance Use of fertilizer	6	10	2	12	5	3	8	20
March		Processing and value addition	12	20	4	24	10	6	16	40
April		Nursery Management	6	10	2	12	5	3	8	20
May		Installation and maintenance of micro irrigation systems	12	20	4	24	10	6	16	40
June		Use of Plastics in farming practices	6	10	2	12	5	3	8	20
July		Production of small tools and implements	12	20	4	24	10	6	16	40
July		Repair and maintenance of farm machinery and implements	12	20	4	24	10	6	16	40
Sept		Small scale processing and value addition	12	20	4	24	10	6	16	40
Sept		Post Harvest Technology	6	10	2	12	5	3	8	20
Oct		Formation and Management of SHGs	12	20	4	24	10	6	16	40
Oct		Entrepreneurial development of farmers/youths	6	10	2	12	5	3	8	20
Nov		Capacity building for ICT application	6	10	2	12	5	3	8	20
Dec		Farm machinery, tools and implements	12	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 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 – Agronomy										
Jan		Intercultural operations and t in Rabi crops Irrigation management in Rabi crops © Natural farming	1	5	5	10	8	7	15	25
Feb		Harvesting and storage of Rabi crops Sumer agronomic crop sowing techniques © Natural farming	1	5	5	10	8	7	15	25
Mar		Harvesting and	1	5	5	10	8	7	15	25

		storage of rabi crops and sowing of maize (b) Sugarcane cultivation © Natural farming importance of millets								
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 (b) Nursery management in Rice and DSR © Seed Treatment (d) Natural farming in Kodo	1	5	5	10	8	7	15	25
Jul		a) Weed management in Kharif 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
Sep		a) Crop diversification (b) Natural farming © Seed hub	1	5	5	10	8	7	15	25
Oct		a) Field preparation, sowing and fertilizer management in Rabi crop (b) Silage making © Harvesting of Kharif crops (d) Natural farming in Wheat	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	1	5	5	10	8	7	15	25

		operations (b) Natural farming © millets cultivation								
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 ortray 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										
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
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 addition of Fish	1	05	03	08	12	5	17	25
Agri Engineering										
Jan		Farm machinery & its maintenance	6	10	2	12	5	3	8	20
Feb		Balance Use of fertilizer	6	10	2	12	5	3	8	20
March		Processing and value addition	12	20	4	24	10	6	16	40
April		Nursery Management	6	10	2	12	5	3	8	20
May		Installation and maintenance of micro irrigation systems	12	20	4	24	10	6	16	40
June		Use of Plastics in farming practices	6	10	2	12	5	3	8	20
July		Production of small tools and implements	12	20	4	24	10	6	16	40
July		Repair and maintenance of farm machinery and implements	12	20	4	24	10	6	16	40
Sept		Small scale processing and value addition	12	20	4	24	10	6	16	40
Sept		Post Harvest Technology	6	10	2	12	5	3	8	20
Oct		Formation and Management of SHGs	12	20	4	24	10	6	16	40
Oct		Entrepreneurial	6	10	2	12	5	3	8	20

		development of farmers/youths								
Nov		Capacity building for ICT application	6	10	2	12	5	3	8	20
Dec		Farm machinery, tools and implements	12	20	4	24	10	6	16	40

iii) Sponsored Training Programmes - Nil

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	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
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

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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 seed, planting material and technological products

Kharif 2023 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 2023-24 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)	Illahabadi safeda, 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 Sigrhah, 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	Variety
1	Waste Decomposer	1000 Litre
2	Trichoderma	50 kg
3	Beejamrut	1000 Litre
4	Ghanjeevamrut	1000 Litre
5	Jeevamrut	200 Litre
6	Neemastra	50 Litre
7	Brahmastra	50 Litre

Bio-products - Nil

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	<i>Rhizobium</i>			
3				
BIOFERTILIZERS				
1	Vermicompost			
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
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 2023	January to March 2023	500
April to June 2023	April to June 2023	500
July to September 2023	July to September 2023	500
October to December 2023	October to December 2023	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 / VCD	Natural Farming	4
2	CD	Integrated pest management	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	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	Baguli, Pendri	Nawagarh	30km
2	Sandi, Chetua, Bhand, Sankara	Berla	40km
3	Mauhabhata	Saja	45km

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 - Nil

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: - Nil

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
CG state seed certification agency	Seed certification
CG Rajya beej & krishi vikash nigam 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
Other KVKs	Seed purchasing & seed selling & other work

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes / No

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

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Front line demonstration turmeric & ginger	Demonstration in farmers field

Action plan for Flagship programmes implemented at KVK

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

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 2023

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
Paddy	Kharif	Dubraj Selection-1	Scented, Medium slender grain	4
Paddy	Kharif	Badsah Bhog Sel -1	Scented, short bold grain	4
Paddy	Kharif	Swarna	Dwarf, MS grain, high yielding	4
Paddy	Kharif	Mahamaya	Dwarf, bold grain, high yielding	4
Pigeon Pea	Kharif	CG Arhar-1	Moderatly tolerant to wilt	4
Pigeon Pea	Kharif	Rajeev lochan	Drought tolerant, Phytopthera blight tolerant	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 2023

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 & thirps, 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
Coriander	Rabi	CG Dhaniya-1	High yield and aroma	4
	Rabi	Jawahar Dhaniya-1	Medium Duration, Moderatly Tolerant to PM	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 lemongerass, citronell, palmarosa, turmeric etc.	25	Essential Oil
Medicinal Plants	Propagation of Bantulsi, Bringraj, hadjod, Aparajita, Giloe, Aloevera, Banlehsun etc	300	Seeds and other vegetative propagule
Cultivation of Millets	Kodo, Ragi	4000	Seed production
Natural Farming	Preparation of Beejamrita, Jeevamrita, Ghanjeevamrita	50	Beejamrita, Jeevamrita, Ghanjeevamrita
Cultivation of Ginger	Seedlings preparation in protray	4000	Planting material
Cultivation of Turmeric	Seedlings preparation in protray	4000	Planting material

KVK- Bhatapara

1.1 Name of the Programme Coordinator with phone & mobile No

1.2 Staff Position on (31th Dec.2022)

[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)							
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	29.05.2023

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 (Kanhra-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 kanhra 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, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	NIL	25.1	9.4
Feb, 22	NIL	27.5	11.4
Mar, 22	NIL	36.7	19.4
Apr, 22	NIL	40.3	23.6
May, 22	NIL	42.5	27.4
Jun, 22	40.4	33.5	24.6
July, 2022	479.4	30.6	24.0
Aug., 2022	150.4	30.4	24.6
Sept., 2022	424.7	31.6	24.0
Oct. 2022	NIL	30.3	17.5
Nov. 2022	NIL	28.6	10.7
Dec. 2022	NIL	26.8	10.5

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 (2022)

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
4						
5						

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
17	85	11	132

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
78	3900	100	5000

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

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	Integrated Nutrient Management	Rice	Low yield due to inadequate and imbalance use of fertilizer	Assessment of Integrated Nutrient Management based on soil health card for targeted yield in Rice	Demonstration of Integrated nutrient management in Rice.	1	Integrated Nutrient Management	Rice	Low yield due to inadequate and imbalance use of fertilizer
2	AEG	Pigeon pea	Low cropping intensity, Farm bunds not be used for cultivation practices	Assessment of hand push precision planter for mechanized sowing of Pigeon pea on farm bunds	Demonstration on seed cum fertilizer drill for line sowing of paddy	01	DSR related improved Farm Machinery	Paddy	To Reduction in the cost of cultivation to get higher B:C ratio
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
AEG	2		1		1					04
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	Kodo	
Title of on farm trial	Assessment of HYV, Indira Kodo-1 of Kodo	
Problem diagnosed	Less area of Kodo crop in the district	
Farmers' Practices	Lack of knowledge on kodo cultivation	
Details of technologies selected for assessment	T ₁	Line sowing of Improved high yielding variety Indira Kodo-1, seed treatment with Azotobacter + PSB Culture, fertilized with 40:20:10 kg NPK per hectare and application of post emergence herbicide bispyribac sodium @ 20 g a.i ha ⁻¹ on 20 DAT
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	02 hectare	
No. of farmers	5	
Total cost	15000.00	
Critical input	Seed, herbicide, culture	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Dry matter accumulation (g plant ⁻¹) at 30, 60, 90 and at harvest , Seed yield kg ha ⁻¹ , Number of tillers plant ⁻¹ at 30, 60, 90 and at harvest , Plant Height at 30, 60, 90 and at harvest	

OFT -2

1	Enterprise	Chickpea
2	Title of on-farm trial	Assessment on Pod borer infestation in Chickpea
3	Problem diagnosed	Low yield of chickpea due to infestation of Pod borer
4	Farming situation	Irrigated Land
5	Production system and thematic area	Integrated Pest Management
6	Farmers' practices	Hazardous use of insecticides
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : Seed treatment with Imidacloprid 600 FS @ 5g/kg seed + spraying of Acetamiprid 20 SP @ 0.3 gm/litre Spray Imidacloprid 17.8SL @ 0.2gm per litre : T ₂ :
8	Source of technology	IGKV, Raipur
9	No. of animals	nil
10	No. of farmers	05
11	Critical input	Drum, Natural pesticides & Insecticides
12	Cost of input	3000.00
13	Total cost	15000.00
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:

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 on Integrated management on Yellow Stem borer infestation in Rice
Year/Season:	Kharif 2023
Farming situation:	Irrigated Land
Problem diagnosis:	Low yield of Rice due to infestation of Yellow Stem borer
Thematic area:	Integrated Pest Management
No of trials:	07
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 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. Use of Pheromone traps with 5 mg lure @ 20 traps /ha Spray cartap hydrochloride 4% granules @ 20 kg/ha
T3- Recommended Practice-	
Date of sowing:	15/07/2023
Date of harvesting:	01/12/2023
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)	Plant Protection
Title of on-farm trial:	Assessment of Tebuconazole 50%+Trifloxystorbin 25% against Blast disease of Rice
Year/Season:	Kharif 2023
Farming situation:	Irrigated Land
Problem diagnosis:	Low yield of Rice due to infestation of Blast disease
Thematic area:	Disease Management
No of trials:	07

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-	Spray of 1 ml per liter of water
T3- Recommended Practice-	
Date of sowing:	10/07/2023
Date of harvesting:	01/12/2023
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)	Plant Protection
Title of on-farm trial:	Assessment of Plant Growth Promoting effect of BARC Mutant Trichoderma in Leafy vegetable
Year/Season:	Rabi 2023
Farming situation:	Irrigated Land
Problem diagnosis:	Low yield of Rice due to germination
Thematic area:	PGPR
No of trials:	07
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 gm per kg of seed
T3- Recommended Practice-	
Date of sowing:	05/10/2023
Date of harvesting:	01/12/2023
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Leafy Vegetable
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering)	Horticulture
Title of on-farm trial:	Assessment of natural farming management practices in leafy vegetables
Year/Season:	Rabi -2023-24
Farming situation:	Irrigated
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, Neemashttra, Agniashtra, Brahmashttra, Dashparni mixed leaf extract for plant protection
T3- Recommended Practice-	-
Date of sowing:	15/09/2023
Date of harvesting:	01/12/2023
Source of technology:	HAU, Haryana
Characteristics of technology:	-
Name of Crop/Enterprises:	Leafy vegetables
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering)	Horticulture
Title of on-farm trial:	Assessment of natural farming management practices in Okra
Year/Season:	Rabi -2023-24
Farming situation:	Irrigated
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, Neemashta, Agniashta, Brahmashta, Dashparni mixed leaf extract for plant protection
T3- Recommended Practice-	-
Date of sowing:	15/09/2023
Date of harvesting:	01/12/2023
Source of technology:	HAU, Haryana
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)	Agri Engineering
Title of on-farm trial:	Assessment of hand push precision planter for mechanized sowing of Pigeonpea on farm bunds
Year/Season:	2023-24/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low cropping intensity, Farm bunds not be used for cultivation practices
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 pigeon pea by manually dibbling
T2 –Recommended Practice-	Hand push precision planter for mechanized sowing of pigeonpea on farm bunds
T3- Recommended Practice-	
Date of sowing:	2 nd Week of July 2023
Date of harvesting:	March 2023
Source of technology:	IGKV (2021)
Characteristics of technology:	
Name of Crop/Enterprises:	Pigeonpea
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 Pigeonpea on farm bunds
Year/Season:	2023-24/ Rabi
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:	2 nd to 3 rd Week of January 2024
Date of harvesting:	March 2024
Source of technology:	IGKV (2021)
Characteristics of technology:	
Name of Crop/Enterprises:	Okra
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

Title	Assessment of natural farming management practices in leafy vegetables
Season & Year	Rabi -2023-24
Problem identified	Inadequate use of pesticides.
Thematic Area	Natural farming
Farming situation	Irrigated
Name of Technology Intervention under study	Beejamrit+Ghanjeewamrit @ 250 kg/ha, Jeewamrit @ 500 l/ha twice in a month, mulch of previous crop @ 5 ton/ha, Neemashtra, Agniashtra, Brahmashtra, Dashparni mixed leaf extract for plant protection
Farmers Practice	Use of pesticides for insect, disease and weed management
No. of replication (Farmers)	07

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	Turmeric	Varietal Evaluation	Improved variety Narendra	Seed	Kharif, 2023	01	05	Corms (Bulb)weight, Yield, B:C Ratio
2	Elephant Foot yam	Varietal Evaluation	Improved variety Gajendra	Seed	Kharif, 2023	01	05	Corms (Bulb)weight, Yield, B:C Ratio
3	Paddy	INM	Improved Variety + 75% of RDF (100:60:40) NPK, Kg/ha + vermicompost enriched with microbial consortia.	Vermicompost, Microbial consortia, Seed	Kharif, 2023	05	13	No. of tillers/plant, Yield, B:C ratio
4	Mustard	INM	Improved Variety + RDF (100:80:40:20) NPKS, Kg/ha + Soil application of PSB @ 5 kg/ha.	Seed, Sulphur, PSB	Rabi, 2023	05	13	No. of Siliquae/plant, Yield, B:C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	11	NOVEMBER-DECEMBER	550
2	Farmers Training	11	January-December	550
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	
							Demon.	Local check
Seed cum fertilizer drill	Paddy	Kharif, 2023	12	05	Seed cum fertilizer drill	Cultivation cost, Energy MJ ha ⁻¹ , Field capacity, Field efficiency, Agronomical parameters, Yield and B:C ratio	Energy MJ ha ⁻¹ , Field capacity, Field efficiency	Energy MJ ha ⁻¹ , Field capacity, Field efficiency

Zero till Seed cum fertilizer drill	Wheat	Rabi, 2023-24	12	05	Zero till Seed cum fertilizer drill	Cultivation cost, Energy MJ ha ⁻¹ , Field capacity, Field efficiency, Agronomical parameters, Yield and B:C ratio	Energy MJ ha ⁻¹ , Field capacity, Field efficiency	Energy MJ ha ⁻¹ , Field capacity, Field efficiency

*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 mushroom processing Technology for SHGs Involved in Mushroom Production.	Mushroom	Rabi, 2023-24	12	05	Spawn	yield and Enhancement of income, B:C ratio.	

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soyabean	INM	Improved variety Seed treatment with Rhizobium & PSB Soil test based nutrient management.	Seed	Kharif-2023	10	25	Yield (q/ha)
2	Arhar	Varietal Evaluation	Improved variety Seed treatment with Rhizobium & PSB Soil test based nutrient management.	Seed	Kharif-2023	10	25	Yield (q/ha)
3	Chickpea	Varietal Evaluation	Improved variety Seed treatment with Rhizobium & PSB	Seed	Rabi 2023-24	10	25	Yield (q/ha)

			Soil test based nutrient management.					

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	02	October	100
2	Farmers Training	04	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							100
Resource Conservation Technologies	01	01							50
Integrated Farming	01	01							50
Water management	01	01							50
Seed production	01	01							50
Integrated Crop Management	01	01							50
Total	07	07							350
II Horticulture									
a) Vegetable & fruit Crops	02	02							100
Off-season vegetables	01	01							50
Protective cultivation (Green Houses, Shade Net etc.)	01	01							50
Total	04	04							200
b) Fruits									
Management of young plants/orchards	01	01							50
Total	01	01							50
c) Ornamental Plants	01	01							50
Total	01	01							50
d) Plantation crops	01	01							50
Total	01	01							50
e) Tuber crops	01	01							50
Total	01	01							50
f) Spices	01	01							50
Production and	01	01							50

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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									
Farm machinery & its maintenance	01	01							30
Installation and maintenance of micro irrigation systems	02	02							60
Use of Plastics in farming practices	01	01							30
Production of small tools and implements	01	01							30
Repair and maintenance of farm machinery and implements	01	01							30
Small scale processing and value addition	01	01							30
Post-Harvest Technology	01	01							30
Advanced farm machinery	01	01							30
Farm mechanization in major Kharif crop	01	01							30
Farm mechanization in major Rabi crop	01	01							30
Total	12	12							360
VII Plant Protection									

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others				SC/ST			Grand Total
			Male	Female		Total	Male	Female		
goat rearing										
Para extension workers										
TOTAL	13	13								650
(C) Extension Personnel										
Productivity enhancement in field crops	01	01								25
Integrated Pest Management	01	01								25
Integrated Nutrient management	01	01								25
Protected cultivation technology	01	01								25
Group Dynamics and farmers organization	01	01								25
Capacity building for ICT application										
Livestock feed and fodder production										
Production and use of organic inputs	01	01								25
Gender mainstreaming through SHGs										
Any other (Pl. Specify)										
TOTAL	06	06								150

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							50
Resource Conservation Technologies	01	01							50
Cropping Systems	01	01							50
Crop Diversification	01	01							50
Integrated Farming	01	01							50
Water management	01	01							50
Seed production	01	01							50
Nursery management	01	01							50
Integrated Crop Management	01	01							50
Fodder production	01	01							50
Production of organic inputs	01	01							50

1. On Campus

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										
2/07/2023		Rice insect manageent	01							50
3/08/2023		Rice Disease management	01							50
15/09/2023		Arhar pest control	01							50
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
02/08/2023		Organic Farming	01							50
05/09/2023		Natural Farming	01							50
20/10/2023		Micronutrient deficiency	01							50

Vocational Training Programme for Rural Youth:

[illegible]

Horticulture

Livestock production

Home Science

Plant Protection

Agriculture Extension (Capacity Building and Group Dynamics)

[illegible]

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	Paddy	Dubraj selection -1/ Mahamaya	55
	Wheat	CG Gehu-03	25
OILSEEDS	Mustard	CG03	8
	Soyabean	CG Soya 1/ JS20-116	48
PULSES	Pigeon Pea	CG –Arhar-1	300
	Lathyrus	Prateek	150
	Chickpea	JG-36	300
	Fieldpea	Indira Matar-1	150
	Green gram	MH-421/New Varsity	100
	Black gram	Indira Urd Pratham	12
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Drumstick	PKM1	5000
	Papaya	Coorg Honey/ Madhu bindu	2000
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
January to March 2023	Q1	100
April to June 2023	Q2	100
July to September 2023	Q3	100
October to December 2022	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				
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
May	Agri Drone	100 Acre

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		

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production

ANNUAL ACTION PLAN 2023

KVK Bijapur

Year of sanction 2012

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Mr. Bhupendra Kumar Thakur I/c SS&H, KVK Bijapur		9399911715	Bhupendra79thakur@gmail.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	-	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Arun Kumar Sakni	Subject matter Specialist	Soil Science	15600-39100+GP 6600	08.09.2014	2014	9406374962		
3	Subject Matter Specialist	Bhupendra Kumar Thakur	Subject matter Specialist	Agronomy	15600-39100+GP 6600	19.09.2014	2014	9399911715		
4	Subject Matter Specialist	Dr. Kanhaiya Lal Patel	Subject matter Specialist	Horticulture	15600-39100+GP 5400	10.10.2018	2018	9385698014		
5	Subject Matter Specialist	Bhirendra Kumar	Subject matter Specialist	Agromet.	15600-39100+GP 5400	09.09.2019	2019	7987311811		
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		
9	Farm Manager	Dr. Dinesh Kumar Marapi	FM	Agronomy	9300-34000+GP 4200	09.11.2019	2019	6261927252		
10	Driver	Suresh Kumar Devdas	Driver	8 th class	5200-20200+GP1900	21.04.2008	2008	6264963368		
11	PA - Computer (Contractual)	Ishwar Lal Yadav	PA (Computer) Contractual	M.Sc. IT	25780/- fixed	01.11.2021	2021	9406006936		
12	AG – II (Contractual)	Sahdev Prasad Suryawanshi	AG – II (Contractual)	M. Sc. IT	18428/- fixed	06.10.2021	2021	6260863635		
13	Driver (Contractual)	Durgeshwar Navik	Driver (Contractual)	12 th	14200/- fixed	20.09.2021	2021	9301592292		
14	Peon (Contractual)	Bhuneshwar Lingam	Peon (Contractual)	12 th	11360/- fixed	20.09.2021	2021	6261335213		
15	Peon (Contractual)	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
1	Administrative Building	ICAR	January 2022					
2	Farmers Hostel	ICAR						
3	Staff Quarters (6)	-						
4	Demonstration Units (2)	DMFT	January 2022	500				
5	Fencing	NMDC & DMFT						
6	Rain Water harvesting system	DMFT						
7	Threshing floor	DMFT						
8	Farm godown	ICAR						

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)	2013	619221		Running
Motor Cycle 2	2013	62545		Running
Bolero(Jeep)	2012	575918	369964	Condemned
Other (Pl. specify)				

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	20.08.2023
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	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		
	Greengram	0.020	0.13	6.62
	Blackgram	0.033	0.14	4.33
	Other Crops	0.361		

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	48.4	27.4	13.1
Feb, 22	0.00	30.3	13.3
Mar, 22	20.4	35.8	19.3
Apr, 22	25.3	38.0	24.6
May, 22	10.0	38.8	25.5
Jun, 22	218.3	35.3	25.3
July, 2022	1443.4	28.2	22.6
Aug., 2022	537.0	29.7	23.0
Sept., 2022	539.0	30.7	22.9
Oct. 2022	60.1	31.2	20.6
Nov. 2022	0.0	30.2	14.8
Dec. 2022	6.6	30.9	15.2

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 (2022)

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	Rice, Blackgram, Greengram, Groundnut, Sorgum, Vegetables (Cowpea, Brinjal, Tomato, Sem, Chili) Poultry, Goatry, Piggery, Fisheries & NTFPS	HYV, Weed infestation, Pest & Diseases, Lack of critical inputs Farm machination, Marketing & Quality planting materials	INM, IPM, IWM & IFS
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.	INM, IPM, IWM, Organic & Natural Farming
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
08	64	07+03	200

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
3	155	45	620

Seed Production (Qtl.)	Planting material (Nos.)
150	1.0 Lakh

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 on activities	Supply of seeds, planting materials etc.
1	Organic farming	Finger Millet	Low Yield	Assessment of yield maximization in Ragi under Organic farming	Demonstration of yield maximization in fine / scented Rice under Organic farming	Organic Cultivation on Paddy	-	Demonstration and Awareness programme	To beej Nigam
2	IWM	Blackgram	Low yield	Assessment of Integrated Weed Management in Blackgram	Demonstration on weed management practices in onion	IWM	-	Demonstration and Awareness programme	To beej Nigam

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				Spinach					03
Organic Farming	Kodo millets & Finger millet		Black gram		Bottle gourd & Onion					05
Precision Agriculture					Tomato					01
TOTAL	04		01		04					09

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
IFS		01		01				02
TOTAL		01		01				

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
Source of technology	
Plot size	
No. of farmers	
Total cost	
Critical input	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) 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 :
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 performance of scented rice under natural farming practice
Year/Season:	2022-23
Farming situation:	Mid / Low Land
Problem diagnosis:	Low Production due to adopted traditional practice
Thematic area:	Transplanting & Natural Farming
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional Practice
T2 –Recommended Practice-	Beejamrit + Ghanjeevamrit @ 250 kg / ha + Jeevamrit @ 500 lit / ha twice a month Neemstra @250 lit/ha
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Scented Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

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 performance of yield in Finger Millets under natural farming practice
Year/Season:	2022-23
Farming situation:	Up land
Problem diagnosis:	Low Production due to adopted traditional practice
Thematic area:	Line Sowing & Natural Farming
No of trials:	12
No. of farmers involved	12
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer Practice
T2 –Recommended Practice-	HYV + Beejamrit + Ghanjeevamrit @ 250 kg / ha + Jeevamrit @ 500 lit / ha twice a month
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Finger Millet
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 3

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 growing media on seed germination and seedling growth of papaya cv. "Red lady"
Year/Season:	2022-23
Farming situation:	Irrigated
Problem diagnosis:	Low germination due to effect of Growing media
Thematic area:	Precision Agriculture
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-	Pand soil
T2 –Recommended Practice-	sand + Pond soil + cocopeat (1:1:1)
T3- Recommended Practice-	Vermicompost + sand + Pond soil (1:1:1)
Date of sowing:	
Date of harvesting:	
Source of technology:	Krisi Vigyan Kendra, Sirohi, Rajasthan
Characteristics of technology:	
Name of Crop/Enterprises:	Papaya
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 4

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 influence of Pinching on growth and Yield of Bottle Gourd
Year/Season:	2022-23
Farming situation:	Up land
Problem diagnosis:	Low production due to traditional practice
Thematic area:	Rainfed
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-	Traditional practice
T2 –Recommended Practice-	1 st node, 2 node and 3 rd node stage
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IARI ,New Delhi
Characteristics of technology:	
Name of Crop/Enterprises:	Bottle Gourd
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 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	Maize	Varietal Demonstration	Hybrid	Seed	2023-24	8.0	20	No. of Cob/Plant, Cob Length, Yield & B:C
2	Groundnut	Varietal Demonstration	Improved Variety	Seed	2023-24	8.0	20	No. of Pod/Plant, Pod weight / Plant, Yield & B:C
3	Cowpea	Varietal Demonstration	Improved Variety	Seed	2023-24	2.0	10	No. of pods per plant, length of pod, yield g/ha, B:C ratio
4	Sweet Corn	Varietal Demonstration	Hybrid	Seed	2023-24	4.0	10	No. of Cob/Plant, Cob Length, Yield & 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			

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 (2023-24)

Sl. No	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Blackgram	Varietal Demonstration	HYV, Seed Treatment, IWP, INM	Seed,Culture,herbicide,fungicide&Insecticide	2023	20	50	No.of Pods/per plant yield & B:C
2	Greengram	Demonstration of Improved Package & Practice	Treat the seed with Carbendazim 2gram/kg seed & seed inoculation with Rhizobium & Trichoderma viride @ 5 gram / kg seed	Seed,Culture,herbicide,fungicide&Insecticide	2023	20	50	No. of Plants/sq meter, No. of branches/plant, No. of pods/plant yield & B:C
3	Groundnut	Demonstration of Improved Package & Practice	INM, IPM	Seed,Culture,herbicide,fungicide&Insecticide	2023	30	75	No. of Pods/plants, Yield & B:C

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants

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	01	01	06	02	08	22	8	30	38	
Total	01	01	06	02	08	22	8	30	38	
Grand total (Horticulture)	14	14	53	20	73	232	69	300	368	
III Soil Health and Fertility Management										
Soil fertility management	01	01	02	01	03	26	14	40		
Soil and Water Conservation	01	01	04	02	06	27	10	37		
Integrated Nutrient Management	02	01	08	04	12	59	26	85	97	
Production and use of organic inputs	05	01	24	13	37	95	54	149	186	
Management of Problematic soils	01	01	07	03	10	32	19	51	61	
Micro nutrient deficiency in crops	01	01	04	01	05	26	14	40	45	
Nutrient Use Efficiency	03	01	13	04	17	49	24	73	90	
Soil and Water Testing	02	01	09	03	12	39	18	57	69	
Total	14	07	65	28	93	300	155	455	548	
IV Livestock Production and Management										
Dairy Management										
Poultry Management	04	01	19	12		72	24	127		
Disease Management										
Feed management										
Production of quality animal products										
Total	04	01	19	12		72	24	127		
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	0									

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others			SC/ST				Grand Total	
			Male	Female	Total	Male	Female	Total			
mainstreaming through SHGs											
Value addition	0										
Income generation activities for empowerment of rural Women	0										
Location specific drudgery reduction technologies	0										
Women and child care0	0										
Total											
VI Agril. Engineering											
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											
Total											
IX Production of Inputs at site											
Vermi-compost production	05	01	26	13		39	68	23		91	130
Organic manures production	08	01	57	28		85	94	51		145	230
Total	13	02	83	41		124	162	74		236	360
X Capacity Building and Group Dynamics											
Leadership development	02	01	07	03		10	14	7		21	31
Group dynamics	02	01	05	02		07	15	7		22	29
Formation and Management of SHGs	06	01		47		47	0	72		72	119
Mobilization of social capital											
Entrepreneurial development of farmers/youths	04	01	25	11		36	34	11		45	81
WTO and IPR	01	01	05	02		07	14	04		18	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
issues											
Total	15	05	42	65		107	77	101		178	285
XI Agro-forestry	02	01	39	19		58	59	28		87	145
Total											
XII Others (Pl. Specify)											
Grand Total											
(B) RURAL YOUTH											
Mushroom Production	10	01	0	32		32	0	75		75	107
Bee-keeping											
Seed production	04	01	28	04		32	48	12		60	92
Planting material production	05	01	34	13		47	68	19		87	134
Vermi-culture	03	01	17	05		22	36	18		54	76
Value addition	03										
Sheep and goat rearing	01	01	07	02		09	16	03		19	28
Para extension workers											
TOTAL	16	04	86	24		110	168	52		220	330
(C) Extension Personnel											
Productivity enhancement in field crops	03	01	08	03		11	17	8		25	36
Integrated Pest Management	04	01	23	08		31	42	18		60	91
Integrated Nutrient management	03	01	27	11		38	49	14		63	101
Protected cultivation technology	02	01	17	04		21	26	05		31	52
Group Dynamics and farmers organization	02	01	14	03		17	21	03		24	41
Capacity building for ICT application	01	01	07	02		09	15	04		19	28
Livestock feed and fodder production	02	01	17	02		19	23	06		29	48
Production and use of organic inputs	04	01	21	07		28	40	13		53	81
Gender mainstreaming through SHGs	02	01	12	03		15	27	09		36	51
Any other (Pl. Specify)	03	01	08	03		11	17	8		25	36
TOTAL	26	10	154	46		200	277	88		365	565

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									
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									
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										
April/03.04.2023	Farmers	Importance of Summer Plowing	01 days	05	00	05	25	12	37	42
April/17.04.2023	Farmers & Farm Women	INM in Summer Crops	01 days	07	02	09	32	07	39	48
June/07.05.2023	Farmers & Farm Women	Package & Practices of Cereal Crops Under Organic Farming	01 days	06	01	07	28	06	34	41
July/19.07.2023	Farmers & Farm Women	IWM in direct seeded Rice under Rainfed	01	04	00	04	24	03	27	31
Horticulture										
June/12.06.2023	Farmers	Training on	01	04	02	06	24	06	30	36

[illegible]

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										
September/04.09.2023	Farmers & Farm Women	Insect pest management of Paddy	01	12	03	15	25	13	38	53
January/27.12.2023	Farmers & Farm Women	Insect pest management of Vegetable Crops	01	06	03	09	20	07	27	36
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										
June/02.06.2023	Rural Youth	Package of Practices of Paddy Crop	01	06	02	08	12	04	16	24
June/12.06.2023	Rural Youth	Importance of Fruit Crops	01	05	02	07	14	06	20	27
Horticulture										
June/06.06.2023	Rural youth	Awareness of High Value Vegetable Crops	01	04	01	05	13	04	17	21
September/04.09.2023	Rural youth	Importance of Hybrid Vegetable Seeds	01	02	00	02	15	03	18	20
Livestock production										
Home Science										
Plant Protection										
September/08.09.2023	Rural youth	Diseases management of Paddy Crop	01	04	01	05	13	09	22	27
October/09.10.2023	Rural	Diseases	01	07	03	10	17	08	25	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	
	youth	management of Vegetable Seedling								
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										
June/15.06.2023	Extension person	Production techniques of paddy crop	01	06	03	09	15	08	23	32
Horticulture										
September/01.09.2023	Extension Person of Horticulture Dept.	Cultivation of High Value Crop in Bijapur Dist.	01	02	00	02	04	01	05	07
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 agent
						Male		Female		Total			
						Othe	SC/S	Othe	SC/S	Othe	SC/S	Tota	

						r	T	r	T	r	T	l	cy
1	Training on Energy & Water Conservation sponsored by CREDA	Energy & Water Conservation	01 day	Farmer s & Farm Women	01	15	45	05	13	20	58	78	CRED A
2	"National Campaign on Poshan Abhiyan and Tree Plantation" on 17 September	Nutritional Security	01	Farmer s & Farm Women	01	17	33	0	0	0	33	17	IFFCO

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										
Kisan Mela										
Kisan Ghosthi	5	300	150	450	20	5	25	320	155	475
Exhibition	10	85	32	117	05	0	05	90	32	122
Film Show										
Method Demonstrations										
Farmers Seminar										
Workshop										
Group meetings	10	165	25	190	05	0	05	195	25	220
Lectures delivered as resource persons										
Newspaper coverage										
Radio talks										
TV talks										
Popular articles										
Extension Literature										
Advisory Services										
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										
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)										
Total	73	983	363	1346	74	09	91	1113	372	1551

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	Indira Aerobic -1	120
	Finger Millet	CG Ragi - 3	10
OILSEEDS	Linseed	RLC 153	20
PULSES			
VEGETABLES	Cowpea	Kashi Kanchan	01
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango	Dasheri, Amrapali, Totapari, Malika, Himsagar, Baneshan	5000 Planting materials
SPICES			
VEGETABLES	Tomato	Hybrid	35000 Seedlings
	Brinjal	Hybrid	35000 Seedlings
	Chili	Hybrid	35000 Seedlings
	Drum Stick	ODC3	20000 Seedlings
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	Eisenia fetida		500 qtl
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	6	55
POULTRY	Kadaknath, Bater	Kadaknath, Bater	Kadaknath- 40 Bater- 100	Kadaknath- 40 kg Bater - 15 kg
FISHERIES	Fish	Rou, Katla, Mirigal, Grass Carf	650	-
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	
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	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

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	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
Nil	

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
Fruit Plants Nursery Raising	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
August	CFLD Pulse	100
October	CFLD Oilseed	20 ha

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 120 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	Indira Aerobic – 1	Sowing through seed drill	15
Rice	Kharif	Zinco Rice	Line Sowing	15
Rice	Kharif	Indira Bharani Dhaan-1	Sowing through seed drill	
Finger Millet	Kharif	CG Ragi – 3	Line Sowing	15
Maize	Kharif	Sugar – 75	Line Sowing	15
Green Gram	Kharif	IPM 410-3	Line Sowing	15
Groundnut	Kharif	Nitya Haritha (TCGS 1157)	Line Sowing	15
Mustard	Rabi	CG Sarson – 1	Line Sowing	15
Linseed	Rabi	RLC 153	Line Sowing	15

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Vermi culture	Vermis production	50	Vermis production
Vermi composting	Vermin compost production	20	Vermi compost production
Dairy unit	Milk Production	50	Milk production
Poultry Unit	Kadaknath	50	Chicks production
Mushroom spawn lab	Spawn production	15	Spawn production
High Tech Polyhouse	Vegetable seed ling	10	Vegetable seedlings
Fishery Unit	Fish farming	50	Fish production
Trichoderma Unit	Vermibased Trichoderma	10	Vermibased Trichoderma Production

ANNUAL ACTION PLAN 2023

KVK : Bilaspur (C.G.)

Year of sanction: 1984

1.1 Name of the Senior scientist and head with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. S. P. Singh	07752 291527	9424139197	kvkbilaspur@rediffmail.com

1.2 Staff Position on (31th Dec.2022)

S. N o.	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	Senior Scientist and Head	Dr. S. P. Singh	Senior Scientist and Head	Soil Science	177400	01.04.2009	01.06.2020	9424139197	kvkbilaspur@rediffmail.com	
2	Subject Matter Specialist	Dr. (Smt.) Shilpa Kaushik	Subject Matter Specialist	Agronomy	73200	06.09.2012	06.09.2012	7970002498	shilpakaushik2498@gmail.com	
3	Subject Matter Specialist	Dr. Dushyant Kumar Kaushik	Subject Matter Specialist	Entomology	71100	07.09.2012	01.08.2016	9981476857	dr.dushyantkaushik@gmail.com	
4	Subject Matter Specialist	Dr. Amit Kumar Shukla	Subject Matter Specialist	Horticulture	71100	28.09.2012	15.05.2017	7738100882	kittushukla@gmail.com	
5	Subject Matter Specialist	Mr. Jayant Kumar Sahu	Subject Matter Specialist	Plant Pathology	73500	19.09.2014	15.10.2018	8871271884	jayant003@gmail.com	
6	Subject Matter Specialist	Mr. Pankaj Minj	Subject Matter Specialist	Agricultural Processing and Food Engineering	63100	06.10.2018	06.10.2018	9406001671	pankajminj1@gmail.com	
7	Subject Matter Specialist	Dr. (Smt.) Nivedita Pathak	Subject Matter Specialist	Home Science	80000	09.10.2018	31.08.2020	8770574511	niveditapathak6@gmail.com	
8	Programme Assistant	Dr. (Smt.) Anjali Mishra	Programme Assistant	Home Science	38700	26.10.2019	26.10.2019	9179854888	swarnamishra125@gmail.com	
9	Computer Programmer/ Programme Assistant	Smt. Sushila Ohdar	Programme Assistant	Computer Science	50100	20.09.2012	20.09.2012	8770199	sushilaohdar10@gmail.com	
10	Farm Manager	Dr. (Smt.) Chanchal Rani Patel	Farm Manager	Agronomy	50100	12.09.2012	10.08.2020	9009776400	chachalaranipatel@gmail.com	
11	Assistant	-	-	-	-	-	-	-	-	-
12	Jr. Stenographer / Comp. Operator	Mr. Santosh Kumar Verma	Assistant Grade - 2		27700	08.02.2013	25.03.2022	7000519206	sv13967@gmail.com	
13	Driver	Mr. Raju Kashyap	Driver		26200	01.04.2013	01.04.2013	8965091395	-	
14	Driver	-	-	-	-	-	-	-	-	-
15	Supporting staff	Mr. Indra Ram Patel	Supporting staff		36300	01.01.1986	01.01.1986	758735664	-	
16	Supporting staff	Smt. Sahodara Bai	Supporting staff		25000	15.09.2008	15.09.2008	-	-	

1.3 Total land with KVK (in ha): 11.82

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					
2	Farmers Hostel	ICAR	1987	-	-	-	-	-
3	Staff Quarters (4)	ICAR	1992	-	-	-	-	-
4	Demonstration Units (2)	ICAR	1995	-	-	-	-	-
5	Fencing	-	2002	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	ICAR	2000	-	-	-	-	-
8	Farm godown	ICAR	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2012			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			Not working
Power Tiller			Not working
Cultivator			Working
Projector Head			Working

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

Sl. No.	Tentative Date
1	May 2023
2	October 2023

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	350.848
Forest	38.473
Waste Land	15.379
Other than cultivated area	28.484
Cultivable waste and alkaline land	9.2297
Pastures	16.904
Bushes	-
Current Fallow	6.805
Other Fallow	8.573
Agricultural Land	187.772
Area Sown	192.053
Kharif	164.512
Rabi	23.260
Zaid	-
Cropping Intensity	113%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	56.174
2	Well	2.249
3	Tube well	42.082
4	Ponds	7.252
5	Others	11.267

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Bhata	Entisol – Laterite	12.154
2	Matasi	Inseptisol – Sandy loam	54.326
3	Dorsa	Alfisol – Clay loam	76.660
4	Kanhar	Vertisol - Clay	59.861

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	160190	4464870	2775
2	Maize	1010	9456	1163.3
3	Pigeonpea	715	7580	1064.8
4	Sesame	180	814	412.5
5	Green Gram	302	1560	547
6	Black Gram	214	1010	510
7	Wheat	4634	89209.4	1873
8	Summer Rice	6009	197463.8	3234
9	Chickpea	2256	23554	1045
10	Pea	416	2788.9	688
11	Lentil	256	1741.95	734
12	Lathyrus	6729	47769.8	740
13	Mustard and Rapeseed	468.5	2959.4	620
14	Groundnut	209	3220	1381.5
15	Sugarcane	316	101820	26409
16	Linseed	118	518.8	425
17	Horse Gram	242.7	992	250

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)

		Maximum	Minimum
Jan, 22	22.6	24.8	9.9
Feb, 22	8.5	28.6	10.7
Mar, 22	1.6	35.7	16.6
Apr, 22	5.8	41	21.8
May, 22	22.5	40.1	23.8
Jun, 22	139.1	37.9	24.1
July, 2022	557	31.9	21.8
Aug., 2022	537.9	31.4	21
Sept., 2022	194.6	31.8	25.8
Oct. 2022	34.6	31.1	17.5
Nov. 2022	0	29.7	13.3
Dec. 2022	0	26.9	12.8

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 (2022)

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	Bundela	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, Muatard	Lack of mechanized farming	Farm machanization

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
16	80	16	160

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2000	60	2400

Seed Production (Qtl.)	Planting material (Nos.)
400	2000

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)

Detailed Information about OFT: 1

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of weed management in groundnut.
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low productivity due to heavy infestation of weeds.
Thematic area:	Weed management
No of trials:	Manual weeding at 50-60 DAS
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 50-60 DAS
T2 –Recommended Practice-	Application of post emergence herbicide quizalofop-ethyl 50g /ha at 15-20 DAS i.e. 2-3 leaf stage of weeds.
T3- Recommended Practice-	Application of post emergence herbicide imazethapyr 100g /ha at 15-20 DAS i.e. 2-3 leaf stage of weed
Date of sowing:	
Date of harvesting:	
Source of technology:	DWR, Jabalpur, 2020
Characteristics of technology:	Application of post emergence herbicides at 15-20 DAS i.e. 2-3 leaf stage of weeds
Name of Crop/Enterprises:	Groundnut
Recommendations for Farmers	
Recommendations for Depts. Personnel	
Feedback	

Detailed Information about OFT: 2

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of weed management in chickpea.
Year/Season:	2023/Rabi
Farming situation:	Rainfed
Problem diagnosis:	Low productivity 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-	Farmer's practice- Not practiced/ manual weeding
T2 –Recommended Practice-	Application of post emergence herbicide Topramezone 20.6 g a.i. ha⁻¹ at 25 DAS with improved variety (RVG-202)
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV,,Raipur 2021
Characteristics of technology:	Topramezone [3-(4,5-Dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H- pyrazol-4-yl) methanone] inhibits the hydroxylphenyl pyruvate dioxygenase enzyme of carotenoid biosynthesis (pigment).
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Depts. Personnel	
Feedback	

Detailed Information about OFT: 3

Name of Discipline	Plant Protection (Entomology)
Title of on-farm trial:	Assessment of brown plant hopper (BPH) management in rice.
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Brown plant hopper causing serious losses in this area
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
T2 –Recommended Practice-	Application of Pymetrozine 50% WG @ 300 g /ha.
T3- Recommended Practice-	Application of Flonicamid 50% WG @ 150g / ha.
Date of sowing:	
Date of harvesting:	
Source of technology:	Pymetrozine : An effective insecticide for management of plant hoppers in rice . Journal of Entomology and Zoology studies 2019, 7 (1), 528-531
Characteristics of technology:	Application of Pymetrozine 50% WG @ 300 g /ha. and Flonicamid 50% WG @ 150g / ha.
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 4

Name of Discipline	Plant Protection (Entomology)
Title of on-farm trial:	Assessment of <i>Helicoverpa armigera</i> management in chickpea
Year/Season:	2023/Rabi
Farming situation:	Rainfed
Problem diagnosis:	Brown plant hopper causing serious losses in this area
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
T2 –Recommended Practice-	Spray of <i>Beauveria bassiana</i> @ 10 ml/litre of water
T3- Recommended Practice-	Spray of <i>Bacillus thuringiensis</i> @ 10 ml/litre of water
Date of sowing:	
Date of harvesting:	
Source of technology:	

Characteristics of technology:	Spray of <i>Beauveria bassiana</i> @ 10 ml/litre of water and <i>Bacillus thuringiensis</i> @ 10 ml/litre of water
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 05

Name of Discipline	Plant Protection (Entomology)
Title of on-farm trial:	Assessment of flubendamide 480SC @ 125ml/ha. against pod borer management in pigeon pea
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Pod borer causing serious losses in Bilaspur district.
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-	Farmers practices- Indiscriminate use of insecticides
T2 –Recommended Practice-	Application of Fubendamide 480 SC @ 125ml/ha..
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	Legume Research, Print ISSN: 0250-5371/online ISSN:0976-0571
Characteristics of technology:	Application of Fubendamide 480 SC @ 125ml/ha
Name of Crop/Enterprises:	Pigeon pea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 06

Name of Discipline	Plant Protection (Entomology)
Title of on-farm trial:	Assessment of bio- pesticide against diamond back moth (DBM) management in cabbage.
Year/Season:	2023/Rabi
Farming situation:	Rainfed
Problem diagnosis:	Diamond back moth (DBM) causing serious losses in cabbage.
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
T2 –Recommended Practice-	Foliar application of <i>Bacillus thuringiensis</i> 10 ml /l of water.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Legume Research, Print ISSN: 0250-5371/online ISSN:0976-0571,
Characteristics of technology:	Application of <i>Bacillus thuringiensis</i> 10 ml /l of water.
Name of Crop/Enterprises:	Cabbage
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 07

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:	2023/Kharif
Farming situation:	Rainfed
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:	
Date of harvesting:	
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: 08

Name of Discipline	Plant Pathology
Title of on-farm trial:	Assessment of application of bio-agents for management of major disease in tomato
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	The occurrence of early blight and 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-	
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:	
Date of harvesting:	
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: 09

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of brush cutter attached power operated paddy harvester at small and marginal farmers field.
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	More drudgery and time consuming in manually harvested, labour scarcity
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-	Manually harvested by sickle
T2 –Recommended Practice-	Application of brush cutter attached power operated paddy harvester
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	Bharat Agro Engineering, Seohara, Bijnor, UP
Characteristics of technology:	Application of brush cutter attached power operated paddy harvester
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 10

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of seed cum fertilizer drill in chickpea.
Year/Season:	2023/Rabi
Farming situation:	Rainfed
Problem diagnosis:	Low productivity due to Improper plant geometric.
Thematic area:	Farm Machinery and Power
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:	Sowing with seed cum fertilizer drill
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 11

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of the effect of different doses of plant growth substances on the fruit yield of bitter gourd during kharif season.
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of bitter gourd because deficiency of different growth substances

Thematic area:	Integrated Nutrient 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-	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:	
Date of harvesting:	
Source of technology:	WBSAU
Characteristics of technology:	Spray of different doses of plant growth substances on bitter gourd during kharif season for maximum yield.
Name of Crop/Enterprises:	Bitter gourd
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 12

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of foliar spray of water soluble fertilizer NPK 19:19:19 in Cauliflower.
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low productivity due to low fertilizer use efficiency
Thematic area:	Integrated Nutrient 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-	Imbalanced fertilizer application
T2 –Recommended Practice-	Nutrient management STV/SHC based + foliar spray of water soluble fertilizer NPK (19:19:19).
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	Foliar spray of water soluble fertilizer NPK 19:19:19 in Cauliflower.
Name of Crop/Enterprises:	Cauliflower.
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Home Science OFT: 1

Title of on-farm trial:	Assessment of nutrient supplementation for anaemic adolescent girls.
Year/Season:	2023
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 adolescent girl
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Not practiced
T2 –Recommended Practice-	Iron rich laddu
T3 –Recommended Practice-	Iron rich laddu and Awala candy
Source of technology:	Central Food Technological Research Institute (CFTRI), Mysore, 2000
Characteristics of technology:	Nutritious laddu 1 kg (Dried drumstick leaves powder 100 gm + 10 gram til + 200 gram amaranths four + 30 gm ghee + 500 gm Jaggery + 200 gm Kutki flour) supplement include in diet regularly for three months and awareness towards nutrition.
Name of Crop/Enterprises:	Flex seed, sesame and drumstick leaf
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT: 2

Title of on-farm trial:	Assessment of mixed Bajra daliya to comabat malnutrition among preschool
Year/Season:	2023
Problem diagnosis:	Malnutrition among preschool children
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	5
No. of farmers/farm women involved	5
Type of OFT (Assessment/Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Used normal wheat daliya
T2 –Recommended Practice-	Mixed Bajra daliya
T3 –Recommended Practice-	
Source of technology:	IIMR 2019 , Hyderabad
Characteristics of technology:	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
Name of Crop/Enterprises:	-
Farming situation:	-

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

Information about Home Science OFT: 3

Title of on-farm trial:	Assessment of malt based health drink for the health improvement of lactating women.
Year/Season:	2023
Problem diagnosis:	Lack awareness about consuming millets based food in their diets.
Thematic area: (Focus area in DFI and nutri smart initiatives)	Nutritional Security
No of trials:	10
No. of farmers/farm women involved	10 adolescent girl
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Not practiced
T2 –Recommended Practice-	Per 100 gm health drink contains 60gm Ragi, milk powder 10 gm, sattu powder 10 gm, soya bean powder 10 gm, jaggery10 gm, cardamom will be added for flavour will be given /women/ twice a week for three month.
T3 –Recommended Practice-	
Source of technology:	NIN Hyderabad,2019 and CFTRI,2017
Characteristics of technology:	Nutritious laddu 1 kg (Dried drumstick leaves powder 100 gm + 10 gram til + 200 gram amaranths four + 30 gm ghee + 500 gm Jaggery + 200 gm Kutki flour) supplement include in diet regularly for three months and awareness towards nutrition.
Name of Crop/Enterprises:	-
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT: 4

Title of on-farm trial:	Assessment of nutrient supplementation for anaemic adolescent girls.
Year/Season:	2023
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 adolescent girl
Type of OFT (Assessment/	Assessment

Refinement):	
Details of technology selected for assessment:	
T1 – Farmers Practice-	Not practiced
T2 –Recommended Practice-	Iron rich laddu
T3 –Recommended Practice-	Iron rich laddu and Awala candy
Source of technology:	Central Food Technological Research Institute (CFTRI), Mysore, 2000
Characteristics of technology:	Nutritious laddu 1 kg (Dried drumstick leaves powder 100 gm + 10 gram til + 200 gram amaranths four + 30 gm ghee + 500 gm Jaggery + 200 gm Kutki flour) supplement include in diet regularly for three months and awareness towards nutrition.
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	Weed management	Demonstration on yield maximization of rice under line sown direct seeded rice.	Application of post emergence herbicides	Kharif -2023	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	Wheat	Nutrient Management	Integrated nutrient management in wheat.	Improved variety and application of PSB (10 gm/kg seed), Azotobacter (5 gm/kg seed).	Rabi 2023-24	5	12	No. of weeds/m ² , Weed dry weight(g/m ²), WCE %, Yield (q/ha) and B:C Ratio
3	Rice	Plant protection	Application of Diafenthuron 50WP @ 300 ml/ha + Propiconazole 25EC @ 300 ml/ha. (Two application at booting and Panicle initiation stage) for the control of panicle mite of Rice crop.	Diafenthuron 50WP @ 300 ml/ha + Propiconazole 25EC @ 300 ml/ha.	Kharif -2023	5	12	No. of healthy grain, no. of discolored grains, no. of chaffy grain per panicle, yield (qt/ha) and B:C ratio.
4	Mustard	Plant protection	Demonstration on bio-pesticide against aphid management in mustard	<i>Metarhizium anisopliae</i> 10 ml / l. of water	Rabi 2023-24	5	12	Aphid population density/cm ² and B:C ratio
5	Rice	Plant protection	Application of Chlorantraniliprol 18.5% SC @ 150ml/ ha. for the management of Stem borer in rice .	Chlorantraniliprol 18.5%SC @ 150ml/ha.	Kharif -2023	5	12	Egg mass /Sq.m., 5% dead hearts and B:C ratio
6	Tomato	Plant protection	Demonstration on fruit and shoot borer management in tomato.	Indoxacarb 14.5 %SC @ 400-500 ml/ha.	Rabi 2023-24	5	12	No. infested fruits / Total no. fruits, and B:C ratio
7	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 -2023	5	12	Infected panicle (%), Per cent yield increase
8	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 2023-24	5	12	Disease Incidence (%), Per cent yield increase
9	Rice	Farm Machinery	Demonstration on seed cum fertilizer drill in direct seeded	Seeding with seed cum	Kharif -2023	5	12	Seed rate (kg/ha), operational cost

		and Power	rice.	<i>fertilizer drill in direct seeded rice (DSR).</i>				(Rs/ha), yield (q/ha), B:C Ratio.
10	Wheat	Farm Machinery and Power	Demonstration on happy seeder in wheat for line sowing.	<i>Seeding with happy seeder for line sowing</i>	Rabi 2023-24	5	12	Seed rate (kg/ha), operational cost (Rs/ha), yield (q/ha), B:C Ratio.
11	Okra	Integrated Nutrient Management	Demonstration on weed management in Okra.	Seed and herbicide	Kharif 2023-24	1	5	Yield(q/ha), No. of weeds/sq. mt., B:C ratio
12	Onion	Integrated Nutrient Management	Demonstration on Integrated nutrient management in onion	Seeds, PSB , Azospirillum.	Rabi 2023-24	1	5	Average weight of bulb, 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

*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
Mushroom	Paddy Straw Mushroom	5	5	Paddy straw Mushroom spawn, polythine sheet .	Production / bag, BC ratio		
Ginger	Ginger	5	5	Processing of Ginger as a candy by using 50% sugar syrup and 3% salt, 0.05 % sodium meta-bi sulphite avoiding for discoloration of Ginger (0.3% citric	Sensory evaluation, BC ratio		

				acid as a flavoring agent).			
Ragi	Ragi	10	10	Ragi vermicelli: 250gm ragi Flour , 250 gm rice powder, red chilli powder , cumin seeds, salt and different types of spices as per test.	Nutrition Analysis., B:C ratio,		
vegetables	Leafy vegetables, roots and tubers, fruits etc.	10	10	Improved management practices with improved varieties of green leafy vegetables, roots and tubers ,fruits etc. Planning for round the year vegetable and AKSHY Chakra	Vitamin, protein & minerals/day consumption, kcal, yield, B:C ratio.		

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Chickpea	ICM	Improved seed, line sowing, seed treatment	Improved Seed, biopesticides	Rabi 2023-24	20	50	Yield, B:C Ratio
2	Lathyrus	ICM	Improved seed, line sowing, seed treatment	Improved Seed, biopesticides	Rabi 2023-24	20	50	Yield, B:C Ratio
3	Mustard	ICM	Improved seed, line sowing, seed treatment	Improved Seed, biopesticides	Rabi 2023-24	30	75	Yield, B:C Ratio
4	Linseed	ICM	Improved seed, line sowing, seed treatment	Improved Seed, biopesticides	Rabi 2023-24	10	25	Yield, B:C Ratio
5	Groundnut	ICM	Improved seed, line sowing, seed treatment	Improved Seed, biopesticides	Rabi 2023-24	20	50	Yield, 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	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

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							20

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others				SC/ST			Grand Total
			Male	Female		Total	Male	Female		
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	
Income generation activities for empowerment of rural Women	2	2							40	
Location specific drudgery reduction technologies	2	2							40	
Women and child care	2	2							40	
Total	16	16							320	
VI Agril. Engineering										
Total	6	6							120	
VII Plant Protection										
Integrated Pest	4	4							80	

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST			Grand Total	
			Male	Female	Total	Male	Female	Total		
Management										
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	
Total	15	15							300	
VIII Fisheries										
Integrated fish farming										
Total										
IX Production of Inputs at site										
Vermi-compost production	1	1							20	
Organic manures production	1	1							20	
Total	2	2							40	
X Capacity Building and Group Dynamics										
Leadership development	1	1							20	
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	
Total	6	6							240	
XI Agro-forestry										
Total										
XII Others (Pl. Specify)										
Grand Total										
(B) RURAL YOUTH										
Mushroom Production	1	1							20	
Bee-keeping	1	1							20	
Seed production	1	1							20	
Planting material production	1	1							20	
Vermi-culture	1	1							20	
Value addition	1	1							20	
Sheep and goat rearing										

II Horticulture									
a) Vegetable Crops									
Nursery raising	1	1							20
Export potential vegetables	1	1							20
Protective cultivation (Green Houses, Shade Net etc.)	1	1							20
b) Fruits									
Cultivation of Fruit	1	1							20
Management of young plants/orchards	1	1							20
Export potential of ornamental plants	1	1							20
Propagation techniques of Ornamental Plants	1	1							20
d) Plantation crops	1	1							20
e) Tuber crops	1	1							20
f) Spices	1	1							20
g) Medicinal and Aromatic Plants	1	1							20
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									
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 development	1	1							20
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

[illegible]

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Horticulture

[illegible]

Home Science

[illegible]

November	20	Mushroom Production

[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										
	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
Horticulture										
	IS	Hitech Horticulture	1							20
	IS	Fruits and vegetable seed production technology	1							20
	IS	Nursery Management	1							20
	IS	Plant Propagation technology	1							20
Livestock production										
Home Science	IS	Value addition technology of fruits and vegetables	1							20
Plant Protection	IS	Integrated Disease management in Kharif Crops								20

[illegible][illegible][illegible]

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	Zincorice	200
	Wheat	CG Gehu -3	100
OILSEEDS	Mustard	CG Sarson - 1	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
SPICES			
VEGETABLES			
	Tomato	OP	2000
	Brinjal	OP	500
	Chilli	OP	500
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				
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 2023	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
	DVD	CFLD - Pulses	50
3	DVD	Natural Farming	50

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	Urtum	Bilha	15
2	Hardidih	Bilha	12
3	Gatora	Masturi	14
4	Malhar	Masturi	28
5	Saraipali	Kota	45
6	Sildaha	Kota	30
7	Lakhasar	Takahtpur	28

1. No. of farm families selected per village : 40
2. No. of survey/PRA to be conducted: 16

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: Natural Farming

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
Septeber	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 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

ANNUAL ACTION PLAN 2023

KVK, Dantewada

Year of sanction: 2005

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Shri Santosh Kumar Dhruw	Krishi Vigyan Kendra, Dantewada	9406092607	skddhruw3750@gmail.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	-	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Mr. Shantosh Kumar Dhruw	I/c Senior Scientist & Head	Forestry	15600-39100 + 5400AGP	05.10.2018	05.10.2018	9406092607	skd_dhruw@rediffmail.com	
3	Subject Matter Specialist	Mr. Diproshan Banjara	Subject Matter Specialist	Agronomy	15600-39100 + 5400AGP	31.12.2018	31.12.2018	9770468756	diproshanbanjara@gmail.com	
4	Subject Matter Specialist	Mr. Anil Kumar Thakur	Subject Matter Specialist (under DAMU)	Agro meteorology	15600-39100 + 5400AGP	7.09.2019	7.09.2019	6261513427	annuthakur30111990@gmail.com	
5	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
6	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
7	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
8	Programme Assistant	Miss Vandana Chadar	Programme Assistant	Plant Pathology	9300-34800+ 4200AGP	04/09/2021	04/09/2021	8982889076	vandanachadar3@gmail.com	
9	Computer Programmer / Programme Assistant	Mr. Surendra Kumar Podyam	Programme Assistant	Computer Science	9300-34800+ 4200AGP	20.09.2012		9425242630	surendrakvk@gmail.com	
10	Farm Manager	Dr. Bhujendra Kothari	Farm Manager	Agronomy	9300-34800+ 4200AGP	31.10.2019	31.10.2019	9827979437	bkkothari13@gmail.com	
11	Assistant	Miss G. Parmeshwari	Accountant	MBA	20900 Fixed pay	11.11.2020	11.11.2020	7675056534	parmeshwariam15@gmail.com	
12	Jr. Stenographer / Comp. Operator	Mr. Lekhesh Kumar Shrivatava	Stenographer	M.Sc.	18420 Fixed pay	11.11.2020	11.11.2020	8817221609	lekhes337@gmail.com	
13	Driver	Mr. Rajkumar Sethiya	Driver	8th	14200/- Pay fixed	06/11/2020	06/11/2020	6265860532	-	
14	Driver	Mr. Vinod Kumar Pandey	Driver	B.Sc.	14200/- Pay fixed	08.11.2021	08.11.2021	6265136739	vinodpandey9863@gmail.com	
15	Supporting staff	Mr. Amit Kumar Baghel	Peon	12th	11360 fixed pay	10.11.2020	10.11.2020	8103867711	-	
16	Supporting staff	Khilesh Kumar	Peon	12th	11360 fixed pay	23.11.2020	23.11.2020	7771972273	khileshkumar987@gmail.com	

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) - Road	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 sept 2009	-	-	-	-	-
2	Farmers Hostel	ICAR	01 sept 2009	-	-	-	-	-
3	Kukkut hatching unit	DMF	19 may 2017	-	-	-	-	-
4	Staff Quarters (6)	ICAR	01 sept 2009	-	-	-	-	-
5	Demonstration Units (2)	DMF	19 may 2017	-	-	-	-	-
6	Fencing	DMF		-	-	-	-	-
7	Rain Water harvesting system	-		-	-	-	-	-
8	Threshing floor	DMF		-	-	-	-	-
9	Farm godown	ICAR		-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)- 2	-	-	-	-
Motor Cycle - 5	-	-	-	-
Bolero(Jeep)- 2	-	-	-	-
Other (Pl. specify)-bus- 1	-	-	-	-
Pickup- 1				

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
HATCHERY UNIT- 4	-	-	-
PULVERIZER- 1	-	-	-
HOT AIR OVEN- 2	-	-	-
BOD- 3	-	-	-
AUTOCLAVE- 3	-	-	-
TRAY DRYER- 1	-	-	-
FRIDGE DOUBLE DOOR- 1	-	-	-
LAMINAR AIR FLOW- 1	-	-	-
INCUBATOR- 1	-	-	-
GRADER- 1	-	-	-
CHIRONJI PROCESSING UNIT-1	-	-	-
KODO GRADER & DEHUSKER	-	-	-
KJELDAHL PLUS- 1	-	-	-
AAS- 1	-	-	-
SPECTROPHOTOMETER- 1	-	-	-
FLAMEPHOTOMETER- 1	-	-	-
DIGESTION UNIT- 1	-	-	-
MUFFLE FURNACE- 1	-	-	-

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

Sl. No.	Tentative Date
1	15-8-2023
2	10.11.2023

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+ Fiserish + 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	
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	341050
Forest	39718
Waste Land	39610
Other than cultivated area	95049
Cultivable waste and alkaline land	4254
Pastures	-
Bushes	-
Current Fallow	30754
Other Fallow	-
Agricultural Land	28593
Area Sown	95049
Kharif	93385
Rabi	1664
Zaid	-
Cropping Intensity	106%

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	118
2	Well	0
3	Tube well	345
4	Ponds	35
5	Others	0

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Marhan (Entisol)	Upland	
2	Tikra (Inceptisol)	Midland	
3	Mal (Alfisol)	Mid-low land	
4	Gabhar (Vertisol)	Low land	

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	68028	2602185.90	2407482
2	Maize	1542	4490663.94	21980
3	Millets	13017	51991.21	23448
4	Black gram	341	3024.71	1136
5	Lentil	194	748.11	367
6	Mustard	288	2504.39	1227

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	78	28.68	12.19
Feb, 22	0.6	32.1	11.7
Mar, 22	0	37.8	17.0
Apr, 22	30.6	39.9	22.6
May, 22	64.7	40.3	23.5
Jun, 22	85.4	37.1	23.9
July, 2022	627.2	30.1	22.7
Aug., 2022	528.1	27	22.4
Sept., 2022	164.2	28.4	25.3
Oct. 2022	73.7	33	23

Nov. 2022	28	33.8	16
Dec. 2022	0	30.27	14.85

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	187630	67.691 MT.	3 Litre
Buffalo	17570	10.378 MT.	4.5 Litre
Sheep			
<i>Crossbred/ Indigenous</i>	94	0 MT wool	 kg
Goats	75745	55.132 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>	42867	25.35 MT	 kg
Rabbits			
Poultry			
Hens	202227	81.9 Lakh eggs	85 eggs/ bird/yr
Turkey and others	12008		
Category	Area	Production	Productivity
Fish	1487.494 (ha)	1500 MT	Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Dantewada	Dantewada	38	Rice, Minor Millets, Green gram, Blackgram, Vegetables, Poultry farming , Goat farming Duck farming, NTFPs	Wilt, Open Grazening, Low moisture percentage	
2	Geedam	Geedam	46	Rice, Minor Millets, Green gram, Blackgram, Poultry farming , Goat farming Duck farming, NTFPs	Wilt, Open Grazening, Low moisture percentage	
3	Katekalyan	Katekalyan	26	Rice, Minor Millets, Green gram, Blackgram, Poultry farming , Goat farming Duck farming, NTFPs	Wilt, Open Grazening, Low moisture percentage	
4	Kuakonda	Kuakonda	33	Rice, Minor Millets, Green gram, Blackgram, Poultry farming , Goat farming Duck farming, NTFPs	Wilt, Open Grazening, Low moisture percentage	
5						

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
9	45	20	88

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
33	2300	31	45000

Seed Production (Qtl.)	Planting material (Nos.)
330	400000

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	Nutrient management	Rice	Low fertility in soil						
2	Disease infestation	Rice, Tomato and Brinjal	Due to organic district the management of disease is difficult						

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	Chironji (<i>Buchanania lanzan</i>)	
Title of on farm trial	Assessment of germination methods of Chironji (<i>Buchanania lanzan</i>)	
Problem diagnosed	Lack of germination due to hard seed coat	
Farmers' Practices	Seed Sown normally	
Details of technologies selectedfor assessment	T ₁	Mechanical rupturing of seed coat
	T ₂	Hot water treatment (52° C)
	T ₃	Chemical treatment (10 minutes soaking in H ₂ SO ₄)
Source of technology	IGKV, Raipur	
Plot size	50 msq	
No. of farmers	05	
Total cost	5000/-	
Critical input	Seed, Polybag, H ₂ SO ₄	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT-2

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 selectedfor assessment	T ₁	Application of Beejamrit+Ghanjeeamrit@250kg/ha+Jeevamrit @500 L/ha with application of neemastra/Brahmastra/Chhach - 250 L/ha
	T ₂	
Source of technology	HAU, Haryana	
Plot size	1 acre each	
No. of farmers	5	
Total cost	7500/-	
Critical input	Seed, Beejamrit, Ghanjivamrit, Jeevamrit, neemastra/Brahmastra/Chhach	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT-3

Crop / Enterprise	Finger millet	
Title of on farm trial	Assessment of Natural farming practices on finger millets	
Problem diagnosed	No application of any organic manure in Millets	
Farmers' Practices	No use of any organic manure	
Details of technologies selectedfor assessment	T ₁	Beejamrit+Ghanjivamrit @250kg/ha +Jeevamrit @500 L/ha, Application of neemastra/Brahmastra/Chhach - 250 L/ha
	T ₂	
Source of technology	HAU, Haryana	
Plot size	1 acre	
No. of farmers	05	
Total cost	4000/-	
Critical input	Seed, Beejamrit, Ghanjivamrit, Jeevamrit, neemastra/Brahmastra/Chhach	

Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	

OFT -4

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' Practices	Conventional sowing with application of FYM	
Details of technologies selected for assessment	T ₁	T1: Application of Beejamrit + Ghanjeeamrit @ 250 kg/ha+ Jeevamrit @500 l/ha, Application of neemastra 250 l/ha
	T ₂	
Source of technology	HAU, Haryana	
Plot size	1 acre	
No. of farmers	5	
Total cost	900/- per trail	
Critical input	4500/-	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT-5

Crop / Enterprise	Field pea	
Title of on farm trial	Assessment of effect of Natural farming practices on productivity of Field pea	
Problem diagnosed	Uses only farm yard manure in very less quantity	
Farmers' Practices	Conventional sowing with application of FYM	
Details of technologies selected for assessment	T ₁	Application of Beejamrit + Ghanjeeamrit @ 250 kg/ha+ Jeevamrit @500 l/ha, Application of neemastra 250 l /ha
	T ₂	
Source of technology	HAU, Haryana	
Plot size	1 acre	
No. of farmers	05	
Total cost	12000/-	
Critical input	Seed, Beejamrit, Ghanjivamrit, Jeevamrit, neemastra/Brahmastra/Chhach	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT-6

Crop / Enterprise	Semialata (<i>Flemingia semialata</i>)	
Title of on farm trial	Assessment of Lac production on Semialata (<i>Flemingia semialata</i>) lac host Plant	
Problem diagnosed	Less availability of lac host plant	
Farmers' Practices	Local host plant like Kusum tree	
Details of technologies selected for assessment	T ₁	Inoculation on New host plant of Semialata (<i>Flemingia Semialata</i>)
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	0.5 acre	
No. of farmers	05	
Total cost	15000/-	
Critical input	3000/- per trail	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation		

OFT-7

Crop / Enterprise	Kutki	
Title of on farm trial	Assessment of yield of Kutki crop variety CG Kutki-1	
Problem diagnosed	Low yield of traditional variety	
Farmers' Practices	Broadcasting and no use any organic manure	
Details of technologies selectedfor assessment	T ₁	Seed rate 5 kg/ha, seed treatment with Azotobacter and PSB @10 gm per kg seed
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	1 acre	
No. of farmers	05	
Total cost	3500/-	
Critical input	Seed, seed treatment materials	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation		

OFT-8

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of yield maximization of paddy by weed management practices	
Problem diagnosed	Yield loss due to heavy weed infestation in direct seeded rice	
Farmers' Practices	One hand weeding only	
Details of technologies selectedfor assessment	T ₁	T1: Bullock drawn pata at 20 & 40 DAS +One hand weeding Variety- Indira Aerobic-1
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	1 acre	
No. of farmers	5	
Total cost	850/- per trail	
Critical input	4250/-	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation		

OFT -9

Crop / Enterprise	Pej	
Title of on farm trial	Assessment of adaptation of Pej prepared by ragi millet, cereals and pulses	
Problem diagnosed	Mall nutrition of villagers	
Farmers' Practices	Pej prepare by only one millets	
Details of technologies selectedfor assessment	T ₁	T1: : Pej prepare by mixing the millets, cereals and pulses
	T ₂	
Source of technology	-	
Plot size	1	
No. of farmers	10	
Total cost	1400/- per trail	
Critical input	14000/-	
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation		

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:

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 Deptt. Personnel	
Feedback	

Frontline Demonstrations

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

S I. 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	Kodo millet	Nutrition sensitive agriculture	line sowing and high yielding variety	Improved seed, Beejamrit, Ghanjivamrit, Jeevamrit, neemastra/Brahmastra/Chhach	Kharif 2023	4.8	12	Yield q/ha, B:C Ratio
2	Niger	Crop Production	Improved high yielding variety of JNS-28	Seed and Organic manures	Kharif 2023	4.8	12	Yield (q/ha.), B:C Ratio
3	Maize	Organic Farming	Sowing method (Line sowing)	Seed and Organic manures	Kharif 2023	4.8	12	No. of Cobs/plant, Yield qt./ha., B:C Ratio
4	Mahua	Precision agriculture	Collection through Polythene sheet/ Net	Polythene sheet/ Net	Rabi 2023		5	Collection time, quality of Mahua, yield (kg/tree)
5	Groundnut	Organic Farming	Line sowing and Improved variety	Seed and organic manures	Kharif 2023	4.8	12	Yield qt./ha., B:C Ratio
6	Brinjal	Crop Production	Seed treatment by Trichoderma @5gm/kg seed and soil treatment along with FYM @250 kg/ha+1 kg Trichoderma	Seed and Trichoderma	Rabi 2023	4.8	12	1. Yield (q/ha) 2. B:C Ratio
8	Tomato	Crop Production	Seed treatment by Trichoderma @5gm/kg seed and soil treatment along with FYM @250 kg/ha+1 kg Trichoderma	Seed and Trichoderma	Rabi 2023	4.8	12	1. Yield (q/ha) 2. B:C Ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	September and October	150
2	Farmers Training	10	May June July August September	350
3	Media coverage	10	May June July August September	Mass
4	Training for extension functionaries	2	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
Oyster Mushroom	Oyster Mushroom	All Season 2023	10	10 gouthan	Spawn, Paddy straw choff, Polybag, Drum, Thread, Formalin & Baveestine	Yield kg/Bag	Demonstration Yield/ Bag	Yield/ Bag

*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 (2023-24)

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	Line sowing, INM and IPM	Seed and Others	Kharif & Summer 2023-24	30	75	Yield and B:C ratio
2	Green gram	Crop production	Line sowing, INM and IPM	Seed and Others	Kharif & Summer 2023-24	30	75	Yield and B:C ratio
3	Horse gram	Crop production	Line sowing, INM and IPM	Seed and Others	Kharif 2023	10	25	Yield and B:C ratio
4	Chick pea	Crop production	Line sowing, INM and IPM	Seed and Others	Rabi 2023	10	25	Yield and B:C ratio
5	Field pea	Crop production	Line sowing, INM and IPM	Seed and Others	Rabi 2023	20	50	Yield and B:C ratio
6	Ground nut	Crop production	Line sowing, INM and IPM	Seed and Others	Kharif 2023	10	25	Yield and B:C ratio
7	Niger	Crop production	Line sowing, INM and IPM	Seed and Others	Kharif 2023	20	50	Yield and B:C ratio
8	Sunflower	Crop production	Line sowing, INM and IPM	Seed and Others	Kharif and Summer 2023-24	40	100	Yield and B:C ratio

Extension and Training activities under CFLDs Oilseed and Pulses

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST			Grand Total	
			Male	Female	Total	Male	Female	Total		
Value addition	1	1	20	20	40	50	50			100
Income generation activities for empowerment of rural Women										
Location specific drudgery reduction technologies										
Women and child care										
Total	1	1	20	20	40	50	50			100
VI Agril. Engineering										
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										
Total										
IX Production of Inputs at site										
Vermi-compost production										
Organic manures production										
Total										
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										

[illegible]

B) OFF Campus

[illegible]

1. On Campus

2. Off Campus

[illegible]

[illegible]

Vocational Training Programme for Rural Youth:

[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										
jan-des	140	crop production	2	20	20	40	50	50	100	140
	40	crop management	2	5	5	10	10	20	30	40
Horticulture										
Livestock production										
Home Science										
Plant Protection										
jan-des	140	Plant Protection	2	20	20	40	50	50	100	140
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration <i>n</i>	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	SCIENTIST FARMER MEET	-	5	50	5	10	40	10	40	20	80	100	ATMA
2	ENARGY SAVE	-	5	50	5	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		150 q
OILSEEDS			
PULSES	Kulthi		60 q
	Field pea		120q
VEGETABLES			
FLOWER CROPS	-	-	-
OTHERS (Specify)			
	Kadaknath Chicks		50000
	Duck		2000
	Mushroom Spawn		5 q
	Quail		3000

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES	Planting material		150000
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS	Napier grass slip		150000
	Lemon grass		100000
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	COW	SAHIWAL	10	-
SHEEP AND GOAT	GOAT	BLACK BANGAL	12	-
POULTRY	POULTRY	KADAKNATH	3000	4500
FISHERIES	FISHE	-	-	-
Others (Specify)	-	-	-	-

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

Date of start	Periodicity	Number of copies to be published
Aprail 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: 12 (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	siketer
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	Cherpai	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 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	Nil	Nil	Nil	Nil
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
Bhumgadi Farmer Organization	Direct and Indirect contact

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes

Name of Programme	Nature of linkage
Training Program	Official contact
Scientist Farmers meet	Official contact

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
MIDH- training and demonstration	offline training

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

Name of Flagship programmes: ARYA

Month	Activity details	Targeted Beneficiaries/Area/Coverage
May	Lac cultivation – Training	40
March	NTFPs- Processing an value addition	40
Feb	Kadaknath Poultry Farming	40
Sep	Mushroom Production	40
Oct – Nov	Rice processing through Mini rice mill	40

Name of Flagship programmes: Natural Farming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Jan	Training – Preparation of Components and Application	40
Feb, March, May, June & July	Awareness – Crop Cultivation through Natural Farming	200
June	Demo conduction	25
July	Training –Application of components	40
Aug	Training – Crop protection on NF through Neemastra, Brmhastra, Agniastra, Khatti Chhachh	40

Name of Flagship programmes: DAMU

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Jan-Dec	Farmer Awareness program once in a month	600
Jan-Dec	Agro-Advisory Services - twice in Week through Social media , KMA, Kisan Sarathi etc.	12000
Jan-Dec	Radio talk, News Cover, Social Media covareg	mass
Jan-Dec	Prepared Literature and Crop weather calendar of major crops	mass

Planning for Crop Cafeteria 2023

Total Area of Crop cafeteria: 448 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	Jawaful	Local Scented, Maturity -135-140 Days, Yield -30-35 q/ha	56.96
		Kadamful	Local Scented, Maturity -110-115Days, Yield -30-35 q/ha	56.96
		Loktimachi	Local Scented, Maturity -135-140 Days, Yield -30-35 q/ha	56.96
		Doobraj Selection-1	Improve Scented, Maturity -140-145 Days, Yield -35-42 q/ha	56.96
		CG Sugandhit Dhan	Improve Scented, Maturity -125-130	56.96

			Days, Yield -35-40 q/ha	
		Indira aerobic 1	Maturity -110-120 Days, Yield -40-45 q/ha	56.96
		Zinco Rice M.S.	Maturity -115-125 Days, Yield -40-45 q/ha	56.96
Linseed		RLC-133		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 q
Kadaknath Hatching unit	Hatching and booder	150	45000-50000 Chicks/ year
Kadaknath breeding unit	Egg production	210	50000-60000 eggs/year
Bio flock unit	Fish production	48	5-6 q/year
Dairy unit	Milk production	800	5000 l /year
Goatery unit	Goat production	200	10-15 goat/year
Duckery	Duck production	50	2000-2500 /year
Quail Farming	Quail chicks	50	2500-3000/year
NTFP & Herbal gulal	Processing of NTFPs	150	10 qt/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
Kadaknath residue management unit	Decomposting of poultry residue	200	8-10 tonnes
Mother Orchard	Mango, Guava and Citrus	8000	3000 guava plants

ANNUAL ACTION PLAN 2023

KVK: Dhamtari

Year of sanction: 2004

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Ishwar Singh Senior Scientist & Head	-	9403673674	ishwarharsh@gmail.com

1.2 Staff Position on (31th Dec.2022)

S. N o.	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. Ishwar Singh	Senior Scientist & Head	Agriculture Extension	37400-67000	01/12/2019	09/01/2023	9403673674	ishwarharsh@gmail.com	
2	Subject Matter Specialist	Er. Amit Kumar Sinha	Subject Matter Specialist	Agril. Processing & food Engineering	15600-39100	06/09/2012	06/09/2012	7587110510	sinha.amit76@yahoo.com	
3	Subject Matter Specialist	Dr. Shakti Verma	Subject Matter Specialist	Entomology	15600-39100	11/09/2012	11/09/2012	9826185637	shakti.verma22@gmail.com	
4	Subject Matter Specialist	Manisha Khaparde	Subject Matter Specialist	Fisheries	15600-39100	01/10/2014	08/10/2018	7067449033	mahi.khaparde@gmail.com	
5	Subject Matter Specialist	Mr. Premal Sahu	Subject Matter Specialist	Agronomy	15600-39100	21/06/2016	01/10/2018	7587186044	Premasahu0511@gmail.com	
6	Subject Matter Specialist	DR. Vedhika sahu	Subject Matter Specialist	Soil Science	15600-39100	06/10/2018	11/10/2021	8319397676	vedhikasa hu2989@gmail.com	
7	Subject Matter Specialist	Dr. Deepika Chandravanshi	Subject Matter Specialist	Horticulture	15600-39100	08/10/2018	08/10/2018	7647930848	dp.chandra.888@gmail.com	

8	Programme Assistant	Dr. Vandana Shukla	Programme Assistant	Plant Pathology	9300-34800	07/11/2019	07/11/2019	8109461517	Vanna2089shukla@gmail.com	
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	-		-	-	-	-	-	-	-
13	Driver	Mr. Tilak Ram Dhruw	Driver	-	5200-20200	01/04/2013	23/07/2019	8305005593	tilakdhruw1982@gmail.com	
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	20/07/2023
2	25/11/2023

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 (Kanhra)	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	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, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	52	26.23	13.14
Feb, 22	0	29.53	13.85
Mar, 22	0	35.47	18.95
Apr, 22	7.2	39.24	20.064
May, 22	5.3	37.97	22.26
Jun, 22	101.8	30.40	21.39
July, 2022	57.3	27.48	21.04
Aug., 2022	660.3	26.71	20.28
Sept., 2022	253.5	26.44	20.30
Oct. 2022	86.2	24.50	19.18
Nov. 2022	0.00	23.10	20.11
Dec. 2022	2.0	23.15	19.88

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	254795	11485.52 MT.	11485520 kg
Buffalo	39107	4931.05MT.	4931050 kg
Sheep			
<i>Crossbred/ Indigenous</i>	-	-	-
Goats Meat	58582	193.219 MT	193219 kg
Pigs <i>Crossbred/ Indigenous</i>	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 (2022)

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
11	55	14	70

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.)
300	1,22,000

[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 2023
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 2023
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: 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 2023
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 ZnSO ₄ + 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 2023
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 2023
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 2023
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-	Diafenthiurone 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 2023
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 2023
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: Fishries 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 2023
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 2023

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 2023
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: 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 2023
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 2023	02	05	No. of tillers/plant, Panicle length, Yield (q/ha.), B:C ratio
2	Lathyrus	ICM	improved Utera (Relay cropping) technique in Lathyrus	Improved seed variety Mahateora/ Prateek Bio fertilizer for seed treatment Foliar application NPK (19:19:19) at 30 DAS	Rabi 2023-24	02	05	No. of effective tillers, Yield (Q/ha), B:C ratio
3	Maize	Weed Management	Demonstration of Post emergence Herbicide on Maize	Post emergence herbicide Tembotrione + Atrazine @ 120 + 250 g a.i. ha ⁻¹	Kharif 2023	02	05	weed population/ m ² , Number of cobs/plant, 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 2023-24	01	05	Production of different crop (kg), B:C Ratio
5	Makhana (Fox nut)	Crop Management	Demonstration of Makhana (Fox nut) cultivation.	Makhana Seedling	Kharif & Rabi 2023-24	0.4	03	Yield (qt/ha), B:C Ratio
6	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 2023	02	05	Plant height, No. of effective tillers/plant, Grain Yield (q/ha), B:C ratio
7	Green Gram (<i>Vigna radiata</i>)	INM	INM in Green Gram (<i>Vigna radiata</i>)		Kharif 2023	0.2	05	Plant height, No of branches /plant, No. of pods/plant, Yield (q/ha), B:C ratio
8	Kusumi Lac	Plant Protection	Spinosad 45 SC @ 0.44 ml/lt water for Manageent of	Spinosad 45 SC 100 ml each Replication	Kharif 2023	05 farmer	05 (1 tree each farmer)	Yield/tree, Net Return (B:C ratio)

			<i>Eublemma amabilis</i>					
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	Rabi 2023	05 farmer	05 (1 tree each farmer)	Yield/tree, Net Return (B:C ratio)
10	Rice	Farm Machinery	Demonstration of Inclined plate planter machine for sowing of rice by DSR technique.	Seed & Inclined plate planter	Kharif 2023	05 Farmers	05	Seed rate kg/ha, Operational cost Rs/ha, Yeild q/ha., no. of effective tillers/m ²
11	Mahua seed	PHT	Mahua seed decorticator	provide manually operated mahua seed decorticator for the operation	Kharif 2023	-	10	Capacity kg/hr, cost Rs /kg, Efficiency %
12	Fish	Integrated farming system	Demonstration of fish cum duck culture (Integrated fish Culture)	Fish seed & duckling	round the year	0.20 ha.	8	Yield of fish & duck , avg. body weight of duck , number of egg, B:C Ratio
13	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 (2023-24)

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 2023-24	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 2023-24	20 ha	50	No. of Branches/plant, No. of pods/plant, yield q/ha, B:C ratio
3	Sesamum	INM, ICM, IDM, IWM, IPM	Seed treatment, Improved seed, Pest Management	Seed, insecticide, Bio fertilizer, Sulphur, seed drill	Kharif 2023-24	20 ha	50	No. of Branches/plant, No. of pods/plant, yield q/ha, B:C ratio
4	Chickpea	INM, ICM, IDM, IWM, IPM	Seed treatment, Improved seed, Pest Management	Seed, insecticide, Bio fertilizer, Sulphur, seed drill	Rabi 2023-24	20 ha	50	No. of Branches/plant, No. of pods/plant, yield q/ha, B:C ratio
5	Mustard	INM, ICM, IDM, IWM, IPM	Seed treatment, Improved seed, Pest Management	Seed, insecticide, Bio fertilizer, Sulphur, seed drill	Rabi 2023-24	20 ha	50	No. of Branches/plant, No. of pods/plant, yield q/ha, B:C ratio
6	Linseed	INM, ICM, IDM, IWM, IPM	Seed treatment, Improved seed, Pest Management	Seed, insecticide, Bio fertilizer, Sulphur, seed drill	Rabi 2023-24	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

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	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 products	03	03	60	20	80	20	10	30	120
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

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
YOUTH											
Mushroom Production	04	04	60	20		80	35	10		45	125
Bee-keeping	02	02	16	28	-	44	14	6	-	20	128
Seed production	02	02	15	5		20	5	5		10	30
Planting material production	01	01	20	5		25	6	6		12	37
Vermi-culture	03	03	35	10		45	5	5		10	55
Value addition											
Sheep and goat rearing	02	02	25	05		30	32	9		41	101
Para extension workers											
TOTAL	10	10	125	40		165	51	26	0	77	247
(C) Extension Personnel											
Productivity enhancement in field crops	02	02	40	22		62	9	4		13	75
Integrated Pest Management	03	03	65	20		85	30	15		45	130
Integrated Nutrient management	02	02	15	5		20	5	5		10	30
Protected cultivation technology											
Group Dynamics and farmers organization											
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
d) Plantation crops									
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation	02	02	35	5	40	5	5	10	45
Integrated Nutrient Management	02	02	40	5	45	5	5	10	55
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing	02	02	20	15	35	5	5	10	45
IV Livestock Production and Management									
Dairy Management	01	01	10	05	15	5	3	8	23
Poultry Management	02	02	20	5	25	5	5	10	35
Disease Management									
Feed management	02	02	35	10	45	5	5	10	55

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

[illegible]

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
		Nagri Dubraj	135-140 Days, 20-25 q/ha	200
		Badshah Bhog Sel. 1	140-145 Days, 35-40 q/ha	200
		Tarun Bhog Sel. 1	140-145 Days, 35-40 q/ha	200
Chickpea	Rabi	Indira Chana -1	101-116 Days, 16 q/ha	200
Safflower		CG kusum-1	120 Days, 17 q/ha	200

Linseed		RLC-143	115-120 Days, 5-6 q/ha	200
Mustard		CG Sarso -1	110-115 Days, 10-15 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	4 tank	480.00 m3	50 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 2023

KVK Anjora, Durg (C.G.)

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.2022)

S. N o.	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 Madan lal 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 Sahu	Driver	-	5200-20200+1900	01/04/2013	2013	7049616458		
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							
2	Farmers Hostel							
3	Staff Quarters (6)							
4	Demonstration Units (2)	ICAR				2012	10.8	Damage
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	2010		1,47,816	Working
Bolero(Jeep)	2019	779552	60680	working
Other (Pl. specify)				

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

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

Sl. No.	Tentative Date
1	

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	

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 (Kanhra-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, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	14	26.7	13.2
Feb, 22	10	30.4	16.5
Mar, 22	13	34.9	20.5
Apr, 22	14	39.4	25.3
May, 22	20	41.4	28.6
Jun, 22	203	35.7	27.2
July, 2022	390	29.7	34.5
Aug., 2022	358	29.2	24.1
Sept., 2022	223	30.3	23.7
Oct. 2022	60	30.4	21.0
Nov. 2022	10	28.6	16.9
Dec. 2022	8	26.5	13.6

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous		 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
Crossbred/ Indigenous		 MT wool	 kg
Goats		 MT	 kg
Pigs Crossbred/ Indigenous		---	---
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 (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Durg	Dhamdha	Dhamdha			
2	Durg	Durg	Pisegaon	Summer Greengram	Low yields of Summer due to incidence of yellow mosaic	Integrated Disease Management

					virus	
3	Durg	Durg	Beloudi	Rice	Yield loss due to infestation of disease and pest like BPH, stem borer sheath blight etc.	Integrated Pest Management
4	Durg	Durg	Borai	Chickpea	Low yield of crop between 30-40% due to incidence of fungal disease.	Integrated Disease Management

Priority / Thrust areas

S. No.	Particulars
1.	Integrated Pest Management
2.	Integrated Disease Management
3.	Income generation
4.	Nutritional security
5.	Value addition
6.	Integrated Crop Management
7.	Livestock production & management
8.	Poultry Production and management
9.	Integrated nutrient management
10.	Nutrient management
11.	Organic farming

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	13	156

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
70	1750	88	5000

Seed Production (Qtl.)	Planting material (Nos.)
300	210000

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	INM	Rice, Chickpea	Use of imbalance fertilizer	Assessment of INM for improving soil health	Demonstration of Bio-fertilizer in Rice crop, Demonstration	INM in crop production		Field day	Biofertilizer,

					of Bio-fertilizer in Chickpea				
2	Natural farming (INM)	Rice and wheat	No use of organic manures	Assessment of Jeevamrit and Ghanjeevamrit for improving soil organic carbon	Demonstration of Jeevamrit in Rice crop, Demonstration of Jeevamrit in Wheat crop	Preparation method and Use of jeevamrit		Field day	Organic manures
3	Integrated Disease Management	Summer Greengram	Low yields of Summer due to incidence of yellow mosaic virus	Assessment of IPM practices for management of yellow mosaic disease in Summer Greengram	Demonstration of Neem oil for management of major pest in rice	IPM in pulse crop	-	Field day	Seed, Bio-pesticide, YST
4	Integrated Pest Management	Rice	Yield loss due to infestation of disease and pest like BPH, stem borer sheath blight etc.	Assessment of cow urine based botanical pesticide for control of major pest in rice	Demonstration of powdery mildew disease in Coriander	IPM through cow urine based botanical pesticide in rice	-	Field day	Botanical pesticide, Bio-agent, Fungicide
5	Integrated Disease Management	Chickpea	Low yield of crop between 30-40% due to incidence of fungal disease.	Assessment of seed treatments for management of fungal disease in Chickpea	-	IDM in Chickpea	-	-	Bio-agent
6	Nutritional security	Iron rich cookies	Wide prevalence of anemia among adolescent girls	Assessment of iron rich cookies (khurmi) for anemic adolescent girls	Demonstration of Nutritional garden for household nutrition security	Design and development of low cost diet	-	Field day	Iron rich cookies
7	Nutritional security	Finger millet balls	Inadequate nutrient in daily diet	Assessment of finger millet balls among malnourished pre school children	Demonstration of Oyster mushroom value added products at household	Awareness Campaign on Millets in diet (at School and Aanganwadi centre)	-	Field day	Finger millet balls
8	Income Generation	Millet	Lack of knowledge about millets processing	Assessment of entrepreneurship opportunities through millets processing	-	Training on Processing of Kodo and Ragi millets	-	Group meeting	Millet

9	Incom e Gener ation	Mille ts	Lack of knowledg e about value added millet products.	Assessment of value added millet products (ready to eat -sev)	-	Training on Chhattisgarhi cuisine preparation of millets		Group meeting	Millet s

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
INM	Rice									01
Naturl farming	Rice, Wheat									02
IDM			3	1						04
IPM	2									02
Nutritional security	Dried Moringa leaves, Finger millet balls									02
Income Generation	Millets									01
TOTAL	08		03	01						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								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of INM for improving soil health	
Problem diagnosed	Use of imbalanced fertilizer	
Farmers' Practices	Use of Chemical fertilizer	
Details of technologies selectedfor assessment	T ₁	Organic manure 25% + 75% chemical fertilizer
	T ₂	Organic manure 75% + 25% chemical fertilizer
Source of technology	IGKV, Raipur 2015	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	30000	
Critical input	Vermi compost	

Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield q/ha, B:C Ratio, organic carbon (%)

OFT-2

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of Jeevamrit and Ghunjeevamrit for improving soil Organic carbon	
Problem diagnosed	No use of organic manure	
Farmers' Practices	Use of Chemical fertilizer	
Details of technologies selectedfor 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
Source of technology	Gurukul, Kurukshetra 2022	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	Rs. 15000	
Critical input	Jeevamrit and Ghanjeevamrit	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	No of Tillers /plant, yield q/ha, B:C Ratio, organic carbon (%)	

OFT-3

Crop / Enterprise	Wheat	
Title of on farm trial	Assessment of Jeevamrit and Ghunjeevamrit for improving soil Organic carbon	
Problem diagnosed	No use of organic manure (Jeevamrit and Ghunjeevamrit)	
Farmers' Practices	Use of Chemical fertilizer	
Details of technologies selectedfor 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
Source of technology	Gurukul, Kurukshetra	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	Rs. 15000	
Critical input	Jeevamrit and Ghanjeevamrit	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	Yield q/ha, B:C Ratio, organic carbon (%)	

OFT-4

Crop / Enterprise	Onion	
Title of on farm trial	Assessment of kharif onion varieties	
Problem diagnosed	Low yield of local variety in late kharif/ pre rabi and low market price during harvest time of rabi	
Farmers' Practices	No practice of kharif onion	
Details of technologies selectedfor assessment	T ₁	Agrifound dark red
	T ₂	Bheema Super
Source of technology	IIHR, Bangalore	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	12000/-	
Critical input	Onion seeds	

Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Plant height, No. of leaves /plant, yield/ ha, economics

OFT-5

Crop / Enterprise	Tomato	
Title of on farm trial	Assessment of different Micronutrient formulations	
Problem diagnosed	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, can be applied as foliar application (10 ml / litre) during 45 th, 60th 90 th and 120 th day after planting)
	T ₂	IIHR Vegetable special (Powder formulation of micronutrient, can be applied as foliar application (3 gram / litre) during 45th, 60th 90 th and 120 th day after planting)
	T ₃	Kandapaani 40ml/sprayer or 1 litre/ha during 45th, 60th, 90th and 120th day
Source of technology	IIHR, Bangalore and TNAU, Coimbatore, NCOF Ghaziabad	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	12000/-	
Critical input	Micronutrient liquid and Vegetable special	
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	Growth parameters, pest and disease incidence, yield and yield attributes, economics	

OFT-6

Crop / Enterprise	Okra	
Title of on farm trial	Assessment of Integrated crop management technologies	
Problem diagnosed	Low yield of Okra due to nutrition deficiency, Lack of awareness about bio fertilizers and bio agents, Yield loss due to sucking pests and root rot incidences.	
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, Foliar spraying of IIHR special vegetable special, Erection of yellow sticky and pheromone traps, Need based pest and disease Management
	T ₂	Neem cake – 100 kg / ac (2 splits at planting and 30 DAP); Yellow sticky traps 12 nos / ha ; Neem oil @ 0.3 %
Source of technology	TNAU	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	15000/-	
Critical input	Azophos 10 kg – Rs.1000/-, Arka consortia 10 kg – 2000/- , IIHR vegetable special 10 kg – Rs.2000/-, Yellow sticky traps 30 nos – 1000/-, Pheromone traps 20 nos – 2000/-	
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	Fruit weight , Yield (q/ha) ,Sucking pest infestation/ m ² , Yield, B:C Ratio	

OFT-7

Crop / Enterprise	Greengram
Title of on farm trial	Assessment of IPM practices for management of yellow mosaic disease in Summer Greengram

Problem diagnosed	Low yields of Summer Greengram due to incidence of yellow mosaic	
Farmers' Practices	Use of insecticide	
Details of technologies selected for assessment	T ₁	Use of YST @ 10-15 nos./ha to reduce aphids population
	T ₂	Spraying of Neem oil @ 0.3%
	T ₃	Use of YST @ 10-15 nos./ha + Neem oil @ 0.3%
Source of technology	TNAU, 2017	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	Rs. 20000/-	
Critical input	YST and Neem oil	
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	Disease incidence (%), yield (qt/ha)	

OFT-8

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of cow urine based botanical pesticide for control of major pest in rice	
Problem diagnosed	Yield loss due to infestation of disease and pest like BPH, stem borer sheath blight etc.	
Farmers' Practices	No use of botanical pesticide	
Details of technologies selected for assessment	T ₁	Use of cow urine based botanical pesticides @2-2.5 L / acre
	T ₂	Spraying of <i>Pseudomonas fluorescence</i> @ 0.4% at 30 DAS
Source of technology	NCOF, Ghaziabad / IGKV, Raipur, 2013	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	Rs. 25000/-	
Critical input	Botanical pesticides and bio-agent	
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	Insect & disease infestation (%), Yield (qt/ha)	

OFT-9

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of seed treatments for management of fungal 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 ₁	Seed treatment with Trichoderma @ 6gm/kg of seed
	T ₂	Seed treatment with Burn Engine oil @ 10 ml/kg of seed
Source of technology	IGKV, Raipur / ICAR-NCIPM, New Delhi, 2017	
Plot size	0.4 ha	
No. of farmers	04	
Total cost	Rs. 20000/-	
Critical input	Bio-agent	
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation	Disease incidence (%), yield (qt/ha)	

OFT-10

Crop / Enterprise	Dry Moringa leaves	
Title of on farm trial	Assessment of Iron rich cookies (khurmi) for anemic adolescent girls	
Problem diagnosed	Wide prevalence of anemia among adolescent girls	
Farmers' Practices	Consumption of iron deficient diet (RDA)	
Details of technologies selectedfor assessment	T ₁	Iron rich cookies 50gm / daily (wheat flour 25 gm, Moringa leaves powder 10 gm and jaggery 15 gm) for three months
	T ₂	T1+ Amla Candy
Source of technology	CFTRI Mysore 2019	
Plot size	-	
No. of farmers	10 adolescent girls	
Total cost	Rs 12000/-	
Critical input	Iron rich cookies	
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation	Anthropometric measurement (BMI,) Biochemical analysis Hb / dl	

OFT-11

Crop / Enterprise	Finger millet	
Title of on farm trial	Assessment of Finger millet balls among malnourished pre school children (02-05year)	
Problem diagnosed	Inadequate nutrient in daily diet	
Farmers' Practices	Consumption of nutrient deficient diet (RDA)	
Details of technologies selectedfor assessment	T ₁	Prepare ragi balls -50gm (Ragi flour 25gm, sesame 5 gm, Groundnut 5 gm , jaggery 15gm, laddu 50gm/ daily for three and awareness towards nutrition
	T ₂	-
Source of technology	CFTRI, Mysore 2015	
Plot size	-	
No. of farmers	10 pre school children	
Total cost	Rs 10000/-	
Critical input	Finger millet balls	
Performance indicators: (xxxi) Technical- yield (q/ ha) (xxxii) Economic (xxxiii) Social – Employment generation	Anthropometric measurement (Height, Weight)	

OFT-12

Crop / Enterprise	Millets	
Title of on farm trial	Assessment of Entrepreneurship Opportunities through Millets processing	
Problem diagnosed	Lack of knowledge about millets processing	
Farmers' Practices	100% wheat flour	
Details of technologies selectedfor assessment	T ₁	Chapati mix (Wheat flour 40% , Finger millets 20% , pearl millet flour 20% ,sorghum 20%)
	T ₂	-
Source of technology	IGKV Raipur	
Plot size	-	
No. of farmers	04	
Total cost	Rs 2500/-	
Critical input	Millets	
Performance indicators: (xxxiv) Technical- yield (q/ ha) (xxxv) Economic	Economics	

(xxxvi) Social – Employment generation	

OFT-13

Crop / Enterprise	Millet	
Title of on farm trial	Assessment of value added millet products (ready to eat -Sev)	
Problem diagnosed	Lack of knowledge about value added millet products.	
Farmers' Practices	Refined flour + chickpea based Sev	
Details of technologies selected for assessment	T ₁	Multi millet Sev chickpea 50% Sorghum flour 20% finger millet 20% rice flour 10%
	T ₂	-
Source of technology	IIMR Hyderabad ,2016	
Plot size	-	
No. of farmers	04 farm women	
Total cost	2500/-	
Critical input	Millet	
Performance indicators: (xxxvii) Technical- yield (q/ ha) (xxxviii) Economic (xxxix) Social – Employment generation	BC Ratio	

OFT -14 (Animal Science)

1	Enterprise	Goat
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	Extensive and semi intensive
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 Osmanabadi Breeding buck T ₂ : -
8	Source of technology	DSVCKV Durg
9	No. of animals	5-10 female goats in each trial
10	No. of farmers	04
11	Critical input	Osmanabadi breeding buck
12	Cost of input	Rs. 30000
13	Total cost	Rs. 30000
14	Performance indicators Observation to be recorded 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 -15 (Animal Science)

1	Enterprise	Chicken
2	Title of on-farm trial	Assessment of supplementary feeding in Cockerel chicken
3	Problem diagnosed	High poultry feeding cost
4	Farming situation	Intensive farming (deep litter)
5	Production system and thematic area	Poultry production & management
6	Farmers' practices	No Supplementary feeding to Cockerel chicken
7	Details of technologies selected for	T ₁ : Supplementary fresh Azolla feeding to Cockerel chicken T ₂ : -

	assessment/refinement Treatments	
8	Source of technology	DSVCKV Durg
9	No. of animals	04 flocks
10	No. of farmers	04
11	Critical input	Azolla
12	Cost of input	Rs. 5000
13	Total cost	Rs. 5000
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Monthly Body weight(kg/bird), Economics of feeding

OFT -16 (Animal Science)

1	Enterprise	Chicken
2	Title of on-farm trial	Assessment of F1 chicks (native male x PB2 female- Sonkukri)
3	Problem diagnosed	Slow growth of native chicken
4	Farming situation	Backyard
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 F1 chicks (native male x PB2 female) T ₂ : -
8	Source of technology	DSVCKV Durg
9	No. of animals	120 (30 each)
10	No. of farmers	04
11	Critical input	Chicks
12	Cost of input	Rs. 3000/-
13	Total cost	Rs. 3000/-
14	Performance indicators Observation to be recorded 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 OFT1:

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:	2023/Kharif
Farming situation:	Upper Low land
Problem diagnosis:	Use of imbalanced 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 Chemical fertilizer

T2 –Recommended Practice-	Organic manure 25% + 75% chemical fertilizer
T3- Recommended Practice-	Organic manure 75% + 25% chemical fertilizer
Date of sowing:	15.7.23
Date of harvesting:	25.10.23
Source of technology:	IGKV, Raipur
Characteristics of technology:	Improving soil health
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	Organic manure 75% + 25% chemical fertilizer
Recommendations for Deptt. Personnel	Organic manure 25% + 75% chemical fertilizer
Feedback	-

Detailed Information about OFT2:

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 Jeevamrit and Ghunjeevamrit for improving soil Organic carbon
Year/Season:	2023/Kharif
Farming situation:	Upper Low land
Problem diagnosis:	No use of organic manure
Thematic area:	Natural farming
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assesment
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:	20.7.23
Date of harvesting:	30.10.23
Source of technology:	Gurukul, Kurukshetra
Characteristics of technology:	Improving soil organic carbon
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	Jeevamrit 1500 L. per ha + Ghanjeevamrit 8 qt per ha
Recommendations for Deptt. Personnel	Jeevamrit 2000 L. per ha + Ghanjeevamrit 12 qt per ha
Feedback	-

Detailed Information about OFT3:

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 Jeevamrit and Ghunjeevamrit for improving soil

	Organic carbon
Year/Season:	2023-24/Rabi
Farming situation:	Mid and Low land
Problem diagnosis:	No use of organic manure (Jeevamrit and Ghunjeevamrit)
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 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:	5.11.23
Date of harvesting:	15.03.24
Source of technology:	Gurukul, Kurukshetra
Characteristics of technology:	Improving soil organic carbon
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	Jeevamrit 1500 L. per ha + Ghanjeevamrit 8 qt per ha
Recommendations for Deptt. Personnel	Jeevamrit 2000 L. per ha + Ghanjeevamrit 12 qt per ha
Feedback	-

Detailed Information about OFT4:

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 kharif onion varieties
Year/Season:	Kharif-2023
Farming situation:	Mid land
Problem diagnosis:	Low yield of local variety in late kharif/ pre rabi and low market price during harvest time of rabi
Thematic area:	Varietal 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 practice of kharif onion
T2 –Recommended Practice-	Agrifound dark red
T3- Recommended Practice-	Bheema Super
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIHR, Bangalore
Characteristics of technology:	
Name of Crop/Enterprises:	Onion

Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Detailed Information about OFT5:

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 different Micronutrient formulations in Tomato
Year/Season:	Rabi 2023-24
Farming situation:	Upper low land
Problem diagnosis:	No use of Micronutrient
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-	Application of macronutrients alone
T2 –Recommended Practice-	TNAU Micronutrient liquid (Liquid formulation of micronutrient, can be applied as foliar application (10 ml / litre) during 45 th, 60th 90 th and 120 th day after planting)
T3- Recommended Practice-	IIHR Vegetable special (Powder formulation of micronutrient, can be applied as foliar application (3 gram / litre) during 45th, 60th 90 th and 120 th day after planting)
T4- Recommended Practice-	Kandapaani 40ml/sprayer or 1 litre/ha during 45 th , 60 th , 90 th and 120 th day
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIHR, Bangalore and TNAU, Coimbatore, NCOF Ghaziabad
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT6:

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 2023-24
Farming situation:	Mid / low land

Problem diagnosis:	Low yield of Okra due to nutrition deficiency, Lack of awareness about bio fertilizers and bio agents, Yield loss due to sucking pests and root rot incidences.
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-	No application of bio fertilizers and bio agents
T2 –Recommended Practice-	Soil test based fertilizer recommendation, Soil application of bio fertilizers and arka consortia, Foliar spraying of IIHR special vegetable special, Erection of yellow sticky and pheromone traps, Need based pest and disease Management
T3- Recommended Practice-	Neem cake – 100 kg / ac (2 splits at planting and 30 DAP); Yellow sticky traps 12 nos / ha ; 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	

Detailed Information about OFT7:

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:	
Farming situation:	Extensive and semi intensive
Problem diagnosis:	Low prolificacy of local breeding bucks
Thematic area:	
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Local breeding buck
T2 –Recommended Practice-	Use of Osmanabadi Breeding buck
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	DSVCKV Durg

Characteristics of technology:	
Name of Crop/Enterprises:	Goat
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT8:

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 supplementary feeding in Cockerel chicken
Year/Season:	All 2023
Farming situation:	Intensive farming (deep litter)
Problem diagnosis:	High poultry feeding cost
Thematic area:	
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 Supplementary feeding to Cockerel chicken
T2 –Recommended Practice-	Supplementary fresh Azolla feeding to Cockerel chicken
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	-
Source of technology:	DSVCKV Durg
Characteristics of technology:	-
Name of Crop/Enterprises:	Chicken
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT9:

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 chicks (native male x PB2 female- Sonkukri)
Year/Season:	All 2023
Farming situation:	Backyard
Problem diagnosis:	Slow growth of native chicken
Thematic area:	
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 chicks (native male x PB2 female)
T3- Recommended Practice-	-
Date of sowing:	
Date of harvesting:	
Source of technology:	DSVCKV, Durg
Characteristics of technology:	
Name of Crop/Enterprises:	Chicken
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT10:

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 practices for management of yellow mosaic disease in Summer Greengram
Year/Season:	Summer 2023
Farming situation:	Mid land
Problem diagnosis:	Low yields of Summer Greengram due to incidence of yellow mosaic
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-	Use of insecticide
T2 –Recommended Practice-	Use of YST @ 10-15 nos./ha to reduce aphids population
T3- Recommended Practice-	Spraying of Neem oil @ 0.3%
T4- Recommended Practice-	Use of YST @ 10-15 nos./ha + Neem oil @ 0.3%
Date of sowing:	-
Date of harvesting:	-
Source of technology:	TNAU, 2017
Characteristics of technology:	Line sowing
Name of Crop/Enterprises:	Greengram
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT11:

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 cow urine based botanical pesticide for control of major pest in rice
Year/Season:	Kharif 2023
Farming situation:	Low land
Problem diagnosis:	Yield loss due to infestation of disease and pest like BPH, stem borer sheath blight etc.
Thematic area:	IPM
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 botanical pesticide
T2 –Recommended Practice-	Use of cow urine based botanical pesticides @2-2.5 L / acre
T3- Recommended Practice-	Spraying of <i>Pseudomonas fluorescence</i> @ 0.4% at 30 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NCOF, Ghaziabad / IGKV, Raipur, 2013
Characteristics of technology:	Bbotanical pesticide
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Detailed Information about OFT12:

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 fungal disease in Chickpea
Year/Season:	Rabi 2023-24
Farming situation:	Midland
Problem diagnosis:	Low yield of crop between 30-40% due to incidence of fungal disease.
Thematic area:	IDM
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:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur / ICAR-NCIPM, New Delhi, 2017
Characteristics of technology:	Seed treatment with ITK and bio-agent
Name of Crop/Enterprises:	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 OFT13:

Title of on-farm trial:	Assessment of Iron rich cookies (khurmi) for anemic adolescent girls
Year/Season:	2023
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:	01
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-	Iron rich cookies 50gm / daily (wheat flour 25 gm, Moringa leaves powder 10 gm and jaggery 15 gm) for three months
T3 –Recommended Practice-	T1+ Amla Candy
Source of technology:	CFTRI Mysore 2019
Characteristics of technology:	Protein and iron rich cookies

Name of Crop/Enterprises:	Dry Moringa leaves
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	WCD, PHC .
Feedback	-

Information about Home Science OFT14:

Title of on-farm trial:	Assessment of Finger millet balls among malnourished pre school children (02-05year)
Year/Season:	2023
Problem diagnosis:	Inadequate nutrient in daily diet
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	01
No. of farmers/farm women involved	10 preschool children
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Consumption of nutrient deficient diet (RDA)
T2 –Recommended Practice-	Prepare ragi balls -50gm (Ragi flour 25gm, sesame 5 gm, Groundnut 5 gm , jaggery 15gm, laddu 50gm/ daily for three and awareness towards nutrition
Source of technology:	CFTRI, Mysore 2015
Characteristics of technology:	Protein and calcium rich laddu .
Name of Crop/Enterprises:	Finger millet
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	WCD
Feedback	-

Information about Home Science OFT15:

Title of on-farm trial:	Assessment of Entrepreneurship Opportunities through Millets processing
Year/Season:	2023 Rabi
Problem diagnosis:	Lack of knowledge about millets processing
Thematic area: (Focus area in DFI and nutri smart initiatives)	Focus area in DFI
No of trials:	04 unit
No. of farmers/farm women involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	100% wheat flour
T2 –Recommended Practice-	Chapati mix (Wheat flour 40% , Finger millets 20% , pearl millet flour

	20%, sorghum 20%)
Source of technology:	IGKV Raipur
Characteristics of technology:	Value added Technologies developed.
Name of Crop/Enterprises:	Millets
Farming situation:	-
Date of sowing:	-
Date of harvesting:	-
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Information about Home Science OFT16:

Title of on-farm trial:	Assessment of value added millet products (ready to eat -Sev)
Year/Season:	2023 /Rabi
Problem diagnosis:	Lack of knowledge about value added millet products.
Thematic area: (Focus area in DFI and nutri smart initiatives)	
No of trials:	04 unit
No. of farmers/farm women involved	04 farm women
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Refined flour + chickpea based Sev
T2 –Recommended Practice-	Multi millet Sev chickpea 50% Sorghum flour 20% finger millet 20% rice flour 10%
Source of technology:	IIMR Hyderabad ,2016
Characteristics of technology:	Value added Technologies developed.
Name of Crop/Enterprises:	Millets
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	Integrated Nutrient Management	Azospirillum + PSB culture	Bio fertilizer	Kharif 2023	4.8	12	No. of tillers/plant, Yield qt./ha., Test weight (gm)
2	Chickpea	Integrated Nutrient	Rhizobium + PSB culture	Bio fertilizer	Rabi 2023-	4.8	12	Yield qt./ha., Seed weight (gm)

		Management			24			
3	Rice	Natural farming	Jeevamrit	Jeevamrit	Kharif 2023	4.8	12	No. of tillers/plant, Yield qt./ha., Test weight (gm)
4	Wheat crop	Natural farming	Jeevamrit	Jeevamrit	Rabi 2023-24	4.8	12	Yield qt./ha., Test weight (gm)
5	Cucurbits	Plant growth regulators	Use of Plant growth regulators (Ethrel)	Plant growth regulators (Ethrel)	Rabi 2023	4.8	12	No of fruit/plant, Yield qt/ha.
6	Tomato	Varietal replacement	Improved variety of Tomato Arka rakshak	Improved variety of Tomato Arka rakshak	Kharif 2023	4.8	12	No of fruits/plant, Disease Severity in percent, Yield Qt/ha.
7	Okra	Integrated Pest Management	Yellow sticky trap	Yellow sticky trap	Rabi 2023	4.8	12	Insect infestation(%), Yield qt/ha.
8	Rice	Integrated Pest Management	IPM tools for managing major pest of rice	Neem oil	Kharif , 2023	4.8	12	Insect infestation (%) , Yield (q/ha)
9	Coriander	Integrated Disease Management	Disease management by fungicide	Fungicide	Rabi, 2023-24	4.8	12	Disease severity (%), yield (q/ha)
10	Seasonal vegetables	Nutritional security	Nutrition garden	Improved seeds & seasonal vegetables production	All season 2023	0.24	12	Anthropometric observation and per capita consumption /day
11	Mushroom	Value addition	Food preservation	Raw materials for value addition	Rabi 2023	-	12	Net return, economics

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	08	March, October, November,	220
2	Farmers Training	02	July, November	60
3	Media coverage			
4	Training for extension functionaries			
5	Farm women training	02	July,October	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

							Demo n.	Local check
Integrated Nutrient Management	Integrated Nutrient Management	Khari f 2023	12	4.8	Bio fertilizer	No. of tillers/plant, Yield qt./ha., Test weight (gm)	Yield qt./ha.,	Yield qt./ha.,
Integrated Nutrient Management	Integrated Nutrient Management	Rabi 2023-24	12	4.8	Bio fertilizer	Yield qt./ha., Seed weight (gm)	Yield qt./ha.,	Yield qt./ha.,
Natural farming	Natural farming	Khari f 2023	12	4.8	Jeevamrit	No. of tillers/plant, Yield qt./ha., Test weight (gm)	Yield qt./ha.,	Yield qt./ha.,
Natural farming	Natural farming	Rabi 2023-24	12	4.8	Jeevamrit	Yield qt./ha., Test weight (gm)	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
Quails		04		Cages and chicks	Body weight at 6 weeks of age (gm), feed intake (gm/bird)	Quail rearing under low cost cage housing	No Quail rearing
Goats		04	4 flocks	Acaricidal drug	Disease Incidence (%)	Application of Acaricidal drugs in recommended doses	Indiscriminate use of Acaricidal drugs

**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 (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Greengram	ICM	Line sowing	Seed, YST,	Summer, 2023	20	30	Yield (qt/ha), B:C ratio

				Neem oil			

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	03	March	120
2	Farmers Training	-	-	-
3	Media coverage	01	March	Mass
4	Training for extension functionaries	8	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									
Resource Conservation Technologies									
Integrated Farming									
Water management									
Seed production									
Integrated Crop Management									
Total									
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	01	01	20	10	30	5		5	35
Protective cultivation (Green Houses, Shade Net etc.)	01	01	20	10	30	5		5	35
Total	02	02	40	20	60	10		10	70
b) Fruits									
Management of young plants/orchards	01	01	20	10	30	5		5	35
Total	01	01	20	10	30	5		5	35
c) Ornamental	01	01	20	10	30	5		5	35

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST			Grand Total	
			Male	Female	Total	Male	Female	Total		
child care										
Total										
VI Agril. Engineering										
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										
Total										
IX Production of Inputs at site										
Vermi-compost production	01	01	25	10	35	2	1	3	38	
Organic manures production	01	01	24	10	34	4	1	5	39	
Total										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization										

[illegible]

production									
Production of organic inputs									
Total									
II Horticulture									
a) Vegetable Crops									
Nursery raising	01	01	20	10	30	5		5	35
Export potential vegetables	01	01	20	10	30	5		5	35
Protective cultivation (Green Houses, Shade Net etc.)	01	01	20	10	30	5		5	35
b) Fruits									
Cultivation of Fruit	01	01	20	10	30	5		5	35
Management of young plants/orchards	01	01	20	10	30	5		5	35
Export potential of ornamental plants	01	01	20	10	30	5		5	35
Propagation techniques of Ornamental Plants	01	01	20	10	30	5		5	35
d) Plantation crops									
e) Tuber crops									
f) Spices									
g) Medicinal and Aromatic Plants									
III Soil Health and Fertility Management									
Soil fertility management	02	02	28	12	40	12	5	17	57
Soil and Water Conservation	01	01	15	6	21	6	4	10	31
Integrated Nutrient Management	02	02	30	16	46	12	6	18	64
Production and use of organic inputs	10	10	330	120	450	110	45	155	605
Management of Problematic soils	01	01	18	12	30	5	2	7	37
Micro nutrient	01	01	15	8	23	6	3	9	32

Sheep and goat rearing									
TOTAL									
(C) Extension Personnel	02	02	30	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										
		Package and practices of production of horticultural crops	05	15	5	20	5	5	10	30
Livestock production										
Home Science										
20/11/23		Value addition of fruits and vegetables	03	2	15	20	-	5	5	25
28/07/23										
Plant Protection										
27/07//2023		Mushroom production	01	20	5		25	3		2
25/09/23		Integrated pest management	01	20	5		25	3		2
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
5.5.23 5.12.23		Soil health related to crop	01	44	15	59	2	1	3	62

		production								

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										
December-2023		INM, IPM, IDM techniques in horticultural crops	05	15	5	20	5	5	10	30
Livestock production										
Home Science										
10/10/23		Value addition of kodo	1	-	20	20	-	10	10	30
23/03/23		Awareness program on millets for nutritional security	1	5	15	20	5	5	10	30
Plant Protection										
23/09/2023		Integrated Pest Management	05	80	20	100	15	5	20	120
23/09/20/23		Integrated Disease Management	05	80	20	100	15	5	20	120
25/08/2023		Bio-control of pests and diseases	01	20	5	25	3	2	05	30
30/06/2023		Production of bio control agents and bio pesticides	01	20	5	25	3	2	05	30

[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	
Soil Science										
25.2.23&16.8.23		Natural farming in crop production	02	31	24	55	4	2	6	61

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	Nutrient management in crop production	Nutrient management	01		01	38	5	11	2	49	7	56	IFFCO
2	Soil health	SFM	01		01	28	6	16	1	44	7	51	Pardeep phaphet Ltd.
	Cultivation of soybean in Ridge & furrow method	Resource Conservation Technologies	01	PF	01	20	3	5	2	25	5	30	Department of Agriculture
	Crop planning for improving cropping intensity	Cropping Systems	01	PF	01	20	3	5	2	25	5	30	Department of Agriculture
	Cultivation of summer pulse in place of summer paddy	Crop Diversification	02	PF	02	40	6	10	4	50	10	60	Department of Agriculture
	Method of seed production of finger millets	Seed production	01	PF	01	20	3	5	2	25	5	30	Department of Agriculture

	Cultivation of summer crop	Integrated Crop Management	05	PF	05	80	15	20	5	100	20	120	Department of Agriculture
	National nutrition month (awareness program)	Nutrition security	02	FW	02	10	50	60	10	30	40	100	WCD

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	swarna	50
	Kodo	CG Kodo	18
	Kutaki	VG Kutaki	20
OILSEEDS	Soybean	CG Soybean	20
	Safflower	CG safflower	80
PULSES			
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava / Mango / Papaya / other		5000
SPICES			
VEGETABLES	Tomato / Chili / Onion / other		5000
FOREST SPECIES			
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify) Fodder	Hybrid Napier		200000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	harzianum		50
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost	Verm	10	2000
2	NADEP	Compost	2	20
3				
BIO PESTICIDES				
1	Dasparni arkl	-	50 lit	
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	Purda	Dhamdha	35
2	Borai	Durg	15
3	Barhapur	Dhamdha	50
4	Thanod	Durg	8
5	Belodi	Durg	13
6	Mohlai	Durg	08
7	Barhapur	Dhamdha	50
8	Pathariya	Dhamdha	35
9	Nagpura	Durg	10

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	Nitrogen distillation unit	1	Not running
2	Colorimeter	1	Not running
3	Phalamephotometer	1	Not running
4	PH meter	1	Not running
5	EC meter	1	Not running

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	100	100	8	200000
Water Samples	-	-	-	-
Total	100	100	8	200000

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
IFFCO	Training
Paradeep phosphate	Trainig

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	Natural farming Awareness programme	40
February	Exposure visit	40
March	Natural farming Awareness programme	40
April	Training on Natural farming	40
May	Training on Natural farming	40
June	Natural farming Awareness programme	40
July	Natural farming Awareness programme	40
August	Demonstration of Jeevamrit	40
September	Exposure visit	40
October	Natural farming Awareness programme	40

November	Natural farming Awareness programme	40
December	Exposure visit	40

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 1500 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	Rjeshwari	Yield 55-60 qt./ha.	90
Rice	Kharif	Zinc Rice	Yield 40-50 qt./ha.	90
Rice	Kharif	Swarna	Yield 50-55 qt./ha.	90
Rice	Kharif	Swarna Sub-1	Yield 55-58 qt./ha.	90
Rice	Kharif	Purnima	Yield 30-35 qt./ha.	90
Rice	Kharif	MTU 1010	Yield 45-50 qt./ha.	90
Rice	Kharif	Badshah Bhog	Yield 30-35 qt./ha.	90
Rice	Kharif	Dubraj	Yield 32-35 qt./ha.	90
Rice	Kharif	Jeeraful	Yield 35-40 qt./ha.	90
Rice	Kharif	Maheshwari	Yield 55-60 qt./ha.	90
Rice	Kharif	Mahamaya	Yield 45-55 qt./ha.	90
Wheat	Rabi	GW 366	Yield 40-45 qt./ha.	90
Wheat	Rabi	GW 322	Yield 38-40 qt./ha.	90
Wheat	Rabi	GW 273	Yield 40-45 qt./ha.	90
Wheat	Rabi	Lok - 1	Yield 15-20 qt./ha.	90
Wheat	Rabi	Sujata	Yield 18-22 qt./ha.	90
Wheat	Rabi	HI 1500	Yield 20-25 qt./ha.	90
Wheat	Rabi	HI 1544 HI 1544	Yield 43-45 qt./ha.	90

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
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
Nutritional Garden	Seasonal vegetables	2000	-
Mango Orchard	Different varieties of Mango	1500	-
Mushroom Production	Oyster Mushroom Production	15	100 kg Mushroom
Fodder Cafeteria Unit	Fodder production	1000	Demonstration of different fodders
Crop Cafeteria	12 varieties of Rice	1500	Demonstration of improved variety
Osmanabadi Goat Unit	Osmanabadi purebred goats	80 total stock	Demonstration, Training and breeding buck production
Quail Unit	Quail rearing in small shed	140	Demonstration
Fish pond	Rearing of fishes	10000	Demonstration

ANNUAL ACTION PLAN 2023

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	19.05.2023

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, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	5	27.7	14.4
Feb, 22	16	31.6	20
Mar, 22	45	36.6	28.8
Apr, 22	0	39.4	27.7
May, 22	48	42.8	28.3
Jun, 22	98.10	35.2	26.1
July, 2022	410.70	30	24.4
Aug., 2022	249.60	29.4	23.8
Sept., 2022	224.40	30.55	21.6
Oct. 2022	82.80	28.8	20
Nov. 2022	18	27.7	15.5
Dec. 2022	0	25.2	12.7

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 (2022)

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
23	127	11	127

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
116	2842	1960	5899

Seed Production (Qtl.)	Planting material (Nos.)
308	80650

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	Crop Production	Scented Rice	Unavailability of short heighted, fine grain variety of scented Rice	Assessment of fine scented variety of Rice under organic farming	-	-	-	-	Seeds of scented Rice variety "C.G. Trombey Dubraj"
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	Crop Diversification	Finger millet	High water requirement for rice cultivation And decrease in soil health due to rice followed by rice cropping system	Assessment of Ragi crop (Finger millet) for replacement of summer Rice	-	-	-	-	Seeds of Finger millet variety "Indira Ragi-1"

4	Integrated Crop Management	Wheat	Low yield of wheat due to heat stress during growing period of crop caused forced maturity in initial stage of crop	Assessment of heat tolerance wheat variety "Kanishka"	-	-	-	-	Seeds of Wheat variety "Kanishka"
5	Integrated Crop Management	Lathyrus	Low yield due to improper management in Utera Lathyrus	-	FLD on improved Utera (Relay cropping) technique in Lathyrus	Improved utera technique	-	Field day	Improved seed variety of Lathyrus
6	Integrated Crop Management	Wheat	Farmers not aware for natural farming	-	FLD on Natural farming of Wheat	-	-	Awareness Programme	-
7	Integrated Crop Management	Onion	Cloudy weather & continuous drizzling which creates the problem of foliar as well as soil-borne diseases. Prices of onion	Assessment of Onion production technology for kharif onion	-	-	-	-	Seed & BBF on hire basis

			increases very rapidly in October and remains high till January-February						
8	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
9	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
10	Integrated Crop Management	Coriander	Low yield of coriander due to unavailability of seed of improved variety of coriander	-	FLD on HYV C.G. Shree Chandra hashni Dhaniya-2 of Coriander with improved package	Farmers training on improved production technology of coriander	Training of extension personnel on improved production technology of coriander	Group discussion, field day	Coriander seed

					of practices	der			
1 1	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
1 2	AEG	Vegetable/Weeder	Weeding/labour cost, time consuming	Assessment of single row weeder for weeding in Vegetable crops					
1 3	AEG	Pigeon pea / Ridge and furrow planter	Poor drainage in flat bed sowing, labour cost manual dibbling	Assessment of ridge and furrow planter for sowing of pigeon pea					
1 4	AEG	Nutritional /Kitchen	Excess water use in irrigation,	Assessment of gravity drip for					

		garde n	weed populatio n	water manage ment at kitchen garden					
1 5	AEG	Mille t/See d cum fertiliz er drill	poor germinati on in existing practices	Assessm ent of sowing practices for finger millet in rabi/sum mer					
1 6	AEG	Soybe an/ Broad bed furro w seed drill	poor germinati on, wilt, water logging due to traditional practice of sowing		Demonst ration of broad bed furrow method of sowing for soybean	calibr ation of BBF seed drill for sowin g			
1 7	AEG	Coria nder/ Seed cum fertiliz er drill	poor germinati on, water logging due to traditional practice of sowing		FLD on line sowing of coriande r by seed cum fertilizer drill	calibr ation of seed cum fertiliz er drill for sowin g of Coria nder			
1 8	Integr ated Pest Manag ement	Rice	Farmers are seen panicle mite losses at ear head stage, in	Assessm ent of preventi ve spray Diafenth uron 50 % WP +	-	-	-	-	Chemical Pesticide Diafenthuron 50 % WP and Propiconazole 25 % EC

			this stage of crop the spraying of pesticides are not well minimize the yield losses (discolour ed & chaffy grains). It causes 4.90% to 23.70% yield losses	Propiconazole 25 % EC against Rice Panicle Mite, Stenotarsonemus spinki Smiley					
19	Integrated Pest Management	Okra	Use of chemical insecticides that's are hazardous to living being	Assessment of Biorational Management of Shoot and Fruit Borer of Okra	-	-	-	-	Neem solution, Beauveria bassiana ,Bacillus ,Emanectin benzoate 5% SG and Chlorfenapyr 10% SC
20	Integrated Pest Management	Mustard	Use of chemical insecticides that's are hazardous to living being	Assessment of Entomopathogenic fungi, Verticillium lecanii for Management of Mustard aphid:	-	-	-	-	Entomopathogenic fungi, Verticillium lecanii

				Lipaphis erysimi Kalt.					
2 1	Indige nous Techni cal Knowl edge	Rice	Indiscrimi nate use of insecticid es	-	Demons tration of ITK (Neem oil) against Rice insect pests)	-	-	-	Neem Oil
2 2	Integr ated Pest Manag ement	Maize	Indiscrimi nate use of insecticid es	-	Demonst ration of IPM module in control of maize fall army worm , Spodopt era frugiper da	-	-	-	pheromone traps, Metarhizium , Emamectin benzoate and Chlorantraniliprole 18.5% SC
2 3	LPM	Goat	Diarrhoea commonly seen in goats , dehydrati on affect the weight loss of goats.	Assessm ent of use of Gurhal flower juices (ITK) for treatme nt of diarrhea in Goat.	-	Goat healt h mana geme nt			Gurhal flower
2 4	LPM	Milch Cattle	Animal looking weak, rough body coat	Assessm ent of use of neem and	-	Parasi tic mana geme nt in			Jaggery

			and low milk yield.	jaggery (ITK) for treatment of intestinal worm infestation in animals.		milch cattle			
25	LPM	Goat	Poor growth in goat due to improper housing management.	Assessment of wooden floor shed for Goat .	-	Housing management in Goat			Wooden slate
26	LPM	Buffaloes	Poor and unbalance feeding to animals due low milk production	Assessment of jaggery, gram flour and fenugreek (ITK) to recover milking efficiency of cattle and buffaloes.	-	Dairy management in milch Buffaloes			Jaggery, gram flour and fenugreek
27	LPM	Milch Cattle	Animal looking weak, rough body coat	-	Demonstration on control of worms	Parasitic management in			Radish leaves

			and low milk yield.		in animal stomach by using radish leaves	milch cattle			
28	LPM	Quail (Poultry)	More investment and more floor space requirement.	-	Demonstration of Quail farming for livelihood security.	Scientific rearing of quails.			Quail Birds
29	INM	Wheat	Farmers not applied fertilizer according to soil health card	Assessment of soil test based fertilizer application on "Wheat"	-	-	-	-	Soil testing
30	Organic farming	Vermicomposting	Unavailability of cow dung during Rabi & summer for vermicomposting	Assessment of 50% paddy straw+50% cow dung in "heap method" of vermicomposting	-	-	-	-	Cow dung
31	Precision Agriculture	Rice	Timely unavailability of urea, poor management	Assessment of Nano urea application on	-	-	-	-	Nano urea

			ment of urea, transportation & high cost	Rice crop					
32	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
33	INM	Rice	Low organic carbon content in soil	Assessment of organic farming for enhancement of organic carbon	-	-	-	-	Soil sampling and testing
34	INM	Mustard	Farmers only apply DAP in oilseed crop	-	Demonstration of Secondary nutrient in oil seed crop (Mustard)	Farmers training on Secondary nutrient in oil seed crop (Mustard)	Training of extension personnel on management	Group discussion, field day on nutrient management	SSP Fertilizer

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	01	-	-	-	-	-	-	-	-	01
Integrated Pest Management	01	01	-	-	01	-	-	-	-	03
Integrated Crop Management	-	-	01	-	01	-	-	-	01	03
Crop Diversification	01	-	-	-	-	-	-	-	-	01
Varietal evaluation	01	-	-	-	-	-	01	-	-	02
INM	01	01	-	-	-	-	-	-	-	02
Organic farming	01	-	-	-	-	-	-	-	-	01
Precision Agriculture	01	-	-	-	-	-	-	-	-	01
AEG	01	-	01	-	02	-	-	-	-	04
Vermicomposting	-	-	-	-	-	-	-	-	-	01
TOTAL	08	02	02	-	04	-	01	-	01	19

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	02	-	-	02	-	-	-	04
TOTAL	02	-	-	02	-	-	-	04

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of preventive spray Diafenthuron 50 % WP + Propiconazole 25 % EC against Rice Panicle Mite, <i>Stenotarsonemus spinki</i> Smiley	
Problem diagnosed	Farmers are seen panicle mite losses at ear head stage, in this stage of crop the spraying of pesticides are not well minimize the yield losses (discoloured & chaffy grains). It causes 4.90% to 23.70% yield losses	
Farmers' Practices	Use of unselected insecticide after appearance of symptom	
Details of technologies selected for assessment	T ₁	Use of unselected insecticide after appearance of symptom
	T ₂	Spraying of Diafenthuron 50 % WP @ 1.50 ml/lit. of water + propiconazole 25 % EC @ 1.00 ml/lit. of water (Two spraying at booting and panicle initiation stages)

Source of technology	Regional Agri. Research Station A.P. 2013
Plot size	0.20 ha
No. of farmers	06
Total cost	Rs. 6600/-
Critical input	Pesticides - Diafenthuron 50 % WP and propiconazole 25 % EC
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	% discoloured grains+ chaffy grains//panicle, yield (qt./ha) and B:C ratio

OFT- 2

Crop / Enterprise	Okra
Title of on farm trial	Assessment of Biorational Management of Shoot and Fruit Borer of Okra
Problem diagnosed	Indiscriminate use of insecticides
Farmers' Practices	Use of unselected and toxic insecticide
Details of technologies selected for assessment	T ₁ Use of unselected and toxic insecticide
	T ₂ Spraying of 1.Neem solution 3000 ppm @ 5 ml/lit. of water, 2. <i>Beauveria bassiana</i> @ 10 g/lit. of water, 3. <i>Bacillus thuringiensis</i> 10 g/lit. of water, 4. Emanectin benzoate 5% SG @ 0.40 g/lit. of water and 5. Chlorfenapyr 10% SC @ 2 ml/lit. of water
Source of technology	Environment & Ecology 33 (3) : 1052—1054, July—September 2015
Plot size	0.20 ha
No. of farmers	06
Total cost	Rs. 5400/-
Critical input	Insecticides- Neem solution, <i>Beauveria bassiana</i> , <i>Bacillus thuringiensis</i> , Emanectin benzoate & Chlorfenapyr
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	% damaged fruits, 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
Problem diagnosed	Use of chemical insecticides that's are hazardous to living being
Farmers' Practices	Indiscriminate use of insecticides
Details of technologies selected for assessment	T ₁ Indiscriminate use of insecticides
	T ₂ Spraying of Entomopathogenic fungi, <i>Lecanicillium lecanii</i> @ 10 ml/lit. of water
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. 1800/-
Critical input	Entomopathogenic fungi, <i>Lecanicillium lecanii</i>
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	No. of aphids in 10 branches/plant yield (qt./ha) and B:C ratio

OFT-4

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	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: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	No. of tillers/plant, yield , economics

OFT-5

Crop / Enterprise	Vermicompost
Title of on farm trial	Assessment of 50% paddy straw+50% cow dung in "heap method" of vermicomposting
Problem diagnosed	Unavailability of cow dung during Rabi & summer for vermicomposting
Farmers' Practices	No vermicomposting during rabi & summer
Details of technologies selected for assessment	T ₁ 50% paddy straw+50% cow dung on "Heap method" of vermicomposting 12'x4'x2'
	T ₂ -
Source of technology	IGKV
Plot size	5 unit
No. of farmers	5
Total cost	7500.0
Critical input	cowdung
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	Time of composting, no. of worms, B:C ratio

OFT-6

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 50% N, 100% P & K (as basal)+ 2 spray of Nano urea @ 4ml/ liter (Top dress)
	T ₂ -
Source of technology	-
Plot size	0.40
No. of farmers	05
Total cost	1045
Critical input	Nano urea

Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	No. of tillers/plant, Lodging %, economics

OFT-7

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	Fertilizer dose 120:60:40 kg/ ha (Basal + top dress)
Details of technologies selected for assessment	T ₁ Traditional method of Ghurwa Khad
	T ₂ - Base of ghurwa made compact with bricks, gravel etc.,divide of pit in 2 parts in particular size, added Trichoderma for fast decomposition ,Final produce mix with different cultures(PSB+ Azospirillum+ Azotobactor) 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: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	Quality of compost ,time of composting , economics

OFT-8

Crop / Enterprise	Rice
Title of on farm trial	Assessment of organic farming for enhancement of organic carbon
Problem diagnosed	Low organic carbon content in soil
Farmers' Practices	Fertilizer dose 120:60:40 kg/ ha (Basal + top dress)
Details of technologies selected for assessment	T ₁ Use of chemical fertilizer resulting low organic carbon in rice field
	T ₂ Green manuring + use of biofertilizer & biopesticide
Source of technology	IGKV
Plot size	0.40
No. of farmers	05
Total cost	6000/-
Critical input	Soil sampling and testing
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	No. of tillers/plant, yield, economics

OFT-9

Crop / Enterprise	Scented Rice	
Title of on farm trial	Assessment of fine scented variety of Rice under organic farming	
Problem diagnosed	Unavailability of short heighted, fine grain variety of scented Rice.	
Farmers' Practices	Growing of organic long heighted , scented Rice, having bold grain	
Details of technologies selected for assessment	T ₁	Growing of organic long heighted , scented Rice, having bold grain
	T ₂	Growing of organic, fine, scented Rice (C.G. Trombe Dubraj), having fine grain
Source of technology	IGKV, Raipur	
Plot size	0.4 ha	
No. of farmers	25	
Total cost	Rs. 15000/-	
Critical input	Seeds of scented Rice variety "C.G. Trombe Dubraj"	
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation	yield (q/ ha), Net Return and B:C Ratio	

OFT-10

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	No weeding in Chickpea
	T ₂	Application of PE herbicide "Topramezon" for control of BLW in Chickpea at 20-25 DAS @ 19.4 g ai /ha
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: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation	No. of weeds/m ² , No. of pods/plant, yield (q/ ha), Net Return and B:C Ratio	

OFT-11

Crop / Enterprise	Finger millet	
Title of on farm trial	Assessment of Ragi crop (Finger millet) for replacement of summer Rice	
Problem diagnosed	- High water requirement for rice cultivation - Decrease in soil health due to rice followed by rice cropping system	
Farmers' Practices	Growing of summer Rice	
Details of technologies selected	T ₁	Growing of summer Rice

for assessment	T ₂ Growing of Finger millet during summer Rice
Source of technology	IGKV, Raipur
Plot size	0.4 ha
No. of farmers	5
Total cost	Rs. 1250/-
Critical input	Seeds of Finger millet variety "Indira Ragi-1"
Performance indicators: (xxxi) Technical- yield (q/ ha) (xxxii) Economic (xxxiii) Social – Employment generation	Crop Equivalent Yield ,yield (q/ ha), Net Return and B:C Ratio

OFT -12

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: (xxxiv) Technical- yield (q/ ha) (xxxv) Economic (xxxvi) Social – Employment generation	No. of spikelet/plant,yield (q/ ha), Net Return and B:C Ratio

OFT -13

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: (xxxvii) Technical- yield (q/ ha) (xxxviii) Economic (xxxix) Social – Employment generation	Weight of tuber (g/tuber), tuber yield (q/ha.)

OFT -14

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, Ludhiyana, 2016	
Plot size	2000 m ²	
No. of farmers	04	
Total cost	40000.0	
Critical input	Mulching film, seed of improved variety	
Performance indicators: (xi) Technical- yield (q/ ha) (xli) Economic (xlii) Social – Employment generation	Plant height (cm), number of functional leaves per plant, Rhizome yield (g/plant), Rhizome yield (q/ha)	

OFT-15

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: (xlili) Technical- yield (q/ ha) (xliv) Economic (xlv) Social – Employment generation	No. of flowers per plant, fresh weight of flower (g), Flower Yield (g/plant), Flower Yield (q/ha)	

OFT-16

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	0.2 ha	
No. of farmers	4	
Total cost	8000/-	
Critical input	single row weeder for weeding	
Performance indicators: (xlvi) Technical- yield (q/ ha) (xlvii) Economic (xlviii) Social – Employment generation	Labour cost, weed population, time saving, yield, B: C ratio	

OFT-17

Crop / Enterprise	Pigeon pea / Ridge and furrow planter	
Title of on farm trial	Assessment of ridge and furrow planter for sowing of pigeon pea	
Problem diagnosed	Poor drainage in flat bed sowing, labour cost manual dibbling	
Farmers' Practices	flat bed sowing/ manual dibbling	
Details of technologies selected for assessment	T ₁	Sowing by ridge and furrow planter
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	4	
Total cost	12000/-	
Critical input	Ridge and furrow planter for sowing	
Performance indicators: (xlix) Technical- yield (q/ ha) (l) Economic (li) Social – Employment generation	Seed saving, Sowing cost, yield, B: C ratio	

OFT-18

Crop / Enterprise	Nutritional/Kitchen garden	
Title of on farm trial	Assessment of gravity drip for water management at kitchen garden	
Problem diagnosed	Excess water use in irrigation, weed population	
Farmers' Practices	Flood irrigation	
Details of technologies selected for assessment	T ₁	Irrigation with gravitational drip
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	100 sq. m.	
No. of farmers	4	
Total cost	12000/-	
Critical input	Gravity drip irrigation	
Performance indicators: (lii) Technical- yield (q/ ha) (liii) Economic (liv) Social – Employment generation	Water productivity, weed infestation per m ² , yield, B:C ratio	

OFT- 19

Crop / Enterprise	Millet/Seed cum fertilizer drill	
Title of on farm trial	Assessment of sowing practices for finger millet in rabi/summer	
Problem diagnosed	poor germination in existing practices	
Farmers' Practices	Broadcasting method of sowing	
Details of technologies selected for assessment	T ₁	Sowing by seed cum fertilizer drill
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	4	
Total cost	8000/-	
Critical input	Gravity drip irrigation	
Performance indicators: (lv) Technical- yield (q/ ha) (lvi) Economic (lvii) Social – Employment generation	Water productivity, weed infestation per m ² , yield, B:C ratio	

OFT-20

1	Enterprise	Goat
2	Title of on-farm trial	Assessment of use of Gurhal flower juices (ITK) for treatment of diarrhea in Goat.
3	Problem diagnosed	Diarrhoea commonly seen in goats, dehydration affects the weight loss of goats.
4	Farming situation	-
5	Production system and thematic area	LPM
6	Farmers' practices	Chemical treatment is not easily available at village level so that no treatment of animals.
7	Details of technologies selected for assessment/refinement Treatments	Juice of <i>gurhal</i> flowers (2-3 flowers) is orally administered twice a day for 3 days.
8	Source of technology	ITK Book- 1, SN. 7.9, 2004
9	No. of animals	20
10	No. of farmers	04
11	Critical input	Hibiscus flower
12	Cost of input	0
13	Total cost	0
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Body weight (kg), Economics : B: C ratio, Social: Farmers reaction & Feedback

OFT -21

1	Enterprise	Milch Cattle
2	Title of on-farm trial	Assessment of use of neem (<i>Azadirachta indica</i>) and jaggery (ITK) for treatment of intestinal worm infestation in animals.
3	Problem diagnosed	Animal looking weak, rough body coat and low milk yield.
4	Farming situation	-
5	Production system and thematic area	LPM
6	Farmers' practices	Chemical treatment is not easily available at village level so that no treatment of animals.
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : A paste is prepared by mixing 250g jaggery and 500 g neem (<i>Azadirachta indica</i>) leaves. This paste is given orally to the animal twice daily for the treatment of worm infection up to the 3 days. : T ₂ :
8	Source of technology	ITK Book-2, SN.3134, 2004
9	No. of animals	20
10	No. of farmers	04
11	Critical input	Jaggery
12	Cost of input	165
13	Total cost	660
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Daily Milk yield (L), Economics : B: C ratio, Social: Farmers reaction & Feedback

OFT -22

1	Enterprise	Goat
2	Title of on-farm trial	Assessment of wooden floor shed for Goat .
3	Problem diagnosed	Poor growth in goat due to improper housing management.
4	Farming situation	Rainfed
5	Production system and thematic area	Livestock Housing Management
6	Farmers' practices	No use of wooden floor by farmers
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : Use of wooden floor shed, height of wooden floor become 1.5-2 fit from the shed of floor. : T ₂ :
8	Source of technology	CIRG, Makhadum-2007
9	No. of animals	20
10	No. of farmers	04
11	Critical input	Wooden slate and wooden pole
12	Cost of input	3000
13	Total cost	12000
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Body wt gain(kg), Morbidity (%)

OFT -23

1	Enterprise	Buffaloes
2	Title of on-farm trial	Assessment of jaggery, gram flour {Cicer arietinum) and fenugreek (Trigorella foenumgraecum L.) (ITK) to recover milking efficiency of cattle and buffaloes.
3	Problem diagnosed	Poor and unbalance feeding to animals due low milk production
4	Farming situation	-
5	Production system and thematic area	Livestock Production Management
6	Farmers' practices	No use of feed supplement
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : T1-250 g Jaggery, 250g Gram flour and 250 g Fenugreek seed prepare the paste and give twice a day to the animal suffering from decreased milking efficiency up to 10 days. : T ₂ :
8	Source of technology	ITK Book – 2004, S.N. 3361
9	No. of animals	20
10	No. of farmers	04
11	Critical input	Jeggry, Gram floor and Fenugreek
12	Cost of input	1250
13	Total cost	5000
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity	Milk yield, Net return, BC ratio

	Economics : B: C ratio Social: Farmers reaction & Feedback	

Detailed Information about OFT:

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of preventive spray Diafenthuron 50 % WP + Propiconazole 25 % EC against Rice Panicle Mite, Stenotarsonemus spinki Smiley
Year/Season:	Kharif- 2023
Farming situation:	Irrigated
Problem diagnosis:	Farmers are seen panicle mite losses at ear head stage, in this stage of crop the spraying of pesticides are not well minimize the yield losses (discoloured & chaffy grains). It causes 4.90% to 23.70% yield losses
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-	Use of unselected insecticide after appearance of symptom
T2 –Recommended Practice-	Spraying of Diafenthuron 50 % WP @ 1.50 ml/lit. of water + propiconazole 25 % EC &@ 1.00 ml/lit. of water (Two spraying at booting and panicle initiation stages)
T3- Recommended Practice-	-
Date of sowing:	July 1st to 2nd
Date of harvesting:	Nov. 1st to 2nd
Source of technology:	Regional Agri. Research Station A.P. 2013
Characteristics of technology:	Minimize losses of rice crop due to panicle mite
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Biorational Management of Shoot and Fruit Borer of Okra
Year/Season:	Kharif- 2023
Farming situation:	Irrigated
Problem diagnosis:	Indiscriminate use of 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-	Use of unselected and toxic insecticide
T2 –Recommended Practice-	Spraying of 1.Neem solution 3000 ppm @ 5 ml/lit. of water, 2. <i>Beauveria bassiana</i> @ 10 g/lit. of water, 3. <i>Bacillus thuringiensis</i> 10 g/lit. of water, 4. Emanectin benzoate 5% SG @ 0.40 g/lit. of water and 5. Chlorfenapyr 10% SC @ 2 ml/lit. of water
T3- Recommended Practice-	-
Date of sowing:	June- July 2023
Date of harvesting:	Sep. to Nov. 2023
Source of technology:	Environment & Ecology 33 (3) : 1052—1054, July—September 2015
Characteristics of technology:	Use of biorational insecticides
Name of Crop/Enterprises:	Okra
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Entomopathogenic fungi, <i>Lecanicillium lecanii</i> for Management of Mustard aphid
Year/Season:	Rabi - 2024
Farming situation:	Irrigated
Problem diagnosis:	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-	Indiscriminate use of insecticides
T2 –Recommended Practice-	Spraying of Entomopathogenic fungi, <i>Lecanicillium lecanii</i> @ 10 ml/lit. of water
T3- Recommended Practice-	-
Date of sowing:	Nov. to Dec. 2023
Date of harvesting:	Feb. to March 2024
Source of technology:	National Institute of Plant Health Management, Department of Agriculture & Cooperation. Ministry of Agriculture, Government of India
Characteristics of technology:	Non hazardous to living being, effective & economical
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of soil test based fertilizer application on “Wheat”
Year/Season:	Rabi 2023
Farming situation:	-
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:	Nov, 2023
Date of harvesting:	Jan, 2024
Source of technology:	IGKV
Characteristics of technology:	Soil sampling and analysis
Name of Crop/Enterprises:	Crop
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of 50% paddy straw+50% cow dung in “heap method” of vermicomposting
Year/Season:	Rabi 2023
Farming situation:	-
Problem diagnosis:	Unavailability of cow dung during Rabi & summer for vermicomposting
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-	No vermicomposting during rabi & summer
T2 –Recommended Practice-	50% paddy straw+50% cow dung on “Heap method” of vermicomposting 12’x4’x2’
T3- Recommended Practice-	-
Date of sowing:	Nov, 2023
Date of harvesting:	Jan, 2024
Source of technology:	IGKV
Characteristics of technology:	Low cost technology and waste material help to farmers for vermicomposting

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

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Nano urea application on Rice crop
Year/Season:	Kharif 2023
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:	July- 2023
Date of harvesting:	Sep- Oct, 2023
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	-

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of Smart Ghurwa Khad Technique
Year/Season:	Rabi 2023
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 bricks, gravel etc.,divide

	of pit in 2 parts in particular size, added Trichoderma for fast decomposition ,Final produce mix with different cultures(PSB+ Azospirillum+ Azotobacter) at the time of spreading in the field. Collection of manure two time in a year.
T3- Recommended Practice-	-
Date of sowing:	Nov, 2023
Date of harvesting:	Jan, 2024
Source of technology:	IGKV
Characteristics of technology:	Fully rotted and good quality of compost will be available for farming
Name of Crop/Enterprises:	Enterprise
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of organic farming for enhancement of organic carbon
Year/Season:	Kharif 2023
Farming situation:	-
Problem diagnosis:	Low organic carbon content in soil
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-	Use of chemical fertilizer
T2 –Recommended Practice-	Green manuring + use of biofertilizer & biopesticide
T3- Recommended Practice-	-
Date of sowing:	July, 2023
Date of harvesting:	Oct, 2023
Source of technology:	IGKV
Characteristics of technology:	Enhance organic carbon and microbial population in soil
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of fine scented variety of Rice under organic farming
Year/Season:	Kharif 2023-24
Farming situation:	Irrigated (Kharif)
Problem diagnosis:	Unavailability of short heighted, fine grain variety of scented Rice.

Thematic area:	Crop Production
No of trials:	25
No. of farmers involved	25
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Growing of organic long heightened , scented Rice, having bold grain
T2 –Recommended Practice-	Growing of organic, fine, scented Rice (C.G. Trombey Dubraj), having fine grain
T3- Recommended Practice-	-
Date of sowing:	First Week of July
Date of harvesting:	Second week of November
Source of technology:	IGKV, Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Scented Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of “Topramezon” herbicide for control of broad leaved weed
Year/Season:	Rabi 2023-24
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	-

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Ragi crop (Finger millet) for replacement of summer Rice
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	- High water requirement for rice cultivation - Decrease in soil health due to rice followed by rice cropping system
Thematic area:	Crop Diversification
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-	Growing of summer Rice
T2 –Recommended Practice-	Growing of Finger millet during summer Rice
T3- Recommended Practice-	-
Date of sowing:	First Week of January
Date of harvesting:	Last week of April
Source of technology:	IGKV, Raipur
Characteristics of technology:	-
Name of Crop/Enterprises:	Finger millet
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of heat tolerance wheat variety "Kanishka"
Year/Season:	Rabi 2023-24
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	-

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):	Assessment
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	-

Name of Discipline	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):	Assessment
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	-

Name of Discipline	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):	Assessment
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	-

Name of Discipline	Agril. Engineering
Title of on-farm trial:	Assessment of single row weeder for weeding in Vegetable crops (30 cm to 60 cm)
Year/Season:	2023/ Kharif
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:	July 23
Date of harvesting:	October 23
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:	Single row weeder
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Agril. Engineering
Title of on-farm trial:	Assessment of ridge and furrow planter for sowing of pigeon pea
Year/Season:	2023/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Poor drainage in flat bed sowing, labour cost manual dibbling
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-	flat bed sowing/ manual dibbling
T2 –Recommended Practice-	Sowing by ridge and furrow planter
T3- Recommended Practice-	-
Date of sowing:	July 2023
Date of harvesting:	February 2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	This planter is used for singulated seeding of various crops on the top of ridges. The ridge making and seeding is done in the single pass only. Water conservation can be practised by sowing on ridges in comparison to sowing on flats as there is no need to flood whole field, irrigate only in the furrows.
Name of Crop/Enterprises:	Pigeon pea/ Ridge and furrow planter
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Agril. Engineering

Title of on-farm trial:	Assessment of gravity drip for water management at kitchen garden
Year/Season:	2023/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Excess water use in irrigation, weed 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-	Flood irrigation
T2 –Recommended Practice-	Irrigation with gravitational drip
T3- Recommended Practice-	-
Date of sowing:	November 2023
Date of harvesting:	March 2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	Simple installation and application. Suitable for different types of water quality and water sources. Enlarges the irrigated land of small, rural farms. Inexpensive and cost-effective irrigation.
Name of Crop/Enterprises:	Gravity drip irrigation
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Agril. Engineering
Title of on-farm trial:	Assessment of sowing practices for finger millet in rabi/summer
Year/Season:	2023/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Poor germination in existing practices
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-	Broadcasting method of sowing
T2 –Recommended Practice-	Sowing by seed cum fertilizer drill
T3- Recommended Practice-	-
Date of sowing:	November 2023
Date of harvesting:	March 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:	Millet/Seed cum fertilizer drill

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

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment the treatment of diarrhoea by juices of Gurhal flower.
Year/Season:	Kharif 2023-24
Farming situation:	-
Problem diagnosis:	Diarrhoea commonly seen in goats, dehydration affect the weight loss of goats.
Thematic area:	Livestock Health Management
No of trials:	4 (05 animals in each group)
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No treatment of goats
T2 –Recommended Practice-	Juice of guruh flowers (2-3 flowers) is orally administered twice a day for 3days.
T3- Recommended Practice-	-
Date of sowing:	First week of June
Date of harvesting:	Last week of August
Source of technology:	ITK Book- 1, SN. 7.9, 2004
Characteristics of technology:	To check diarrhoea by juices of Gurhal flower.
Name of Crop/Enterprises:	Goat
Recommendations for Farmers	Body weight,Morbidity,Net return,BC ratio
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment the treatment of intestinal worm infestation in animals by neem {Azadirachta indica) and jaggery.
Year/Season:	Kharif 20 23-24
Farming situation:	-
Problem diagnosis:	Animal looking weak, milk production low
Thematic area:	Livestock Health Management
No of trials:	4 (04 animals in each group)
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Chemical treatment is not easily available at village level so that no treatment of animals so that no treatment of animals.
T2 –Recommended Practice-	A paste is prepared by mixing 250g jaggery and 500 g neem (Azadirachta indica) leaves. This paste is given orally to the animal

	twice daily for the treatment of worm infection up to the 3 days.
T3- Recommended Practice-	-
Date of sowing:	First week of June
Date of harvesting:	Last week of September
Source of technology:	ITK Book-2, SN.3134, 2004
Characteristics of technology:	Anti parasitic effect seen feeding of jaggery and neem (Azadirachta indica) leaves.
Name of Crop/Enterprises:	Milch Cattle
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of wooden floor shed for Goat
Year/Season:	Kharif 2023-24
Farming situation:	-
Problem diagnosis:	Poor growth in goat due to improper housing management.
Thematic area:	Livestock Housing Management
No of trials:	4 (04 animals in each group)
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of wooden floor by farmers
T2 –Recommended Practice-	Use of wooden floor shed, height of wooden floor become 1.5-2 fit from the shed of floor.
T3- Recommended Practice-	-
Date of sowing:	First week of June
Date of harvesting:	Last week of August
Source of technology:	CIRG, Makhadum-2007
Characteristics of technology:	Using of wooden slate floor urine and faeces easily dropped down and dry floor provided to goat.
Name of Crop/Enterprises:	Goat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Name of Discipline	Animal Science
Title of on-farm trial:	Assessment of to recover milking efficiency of cattle and buffaloes by feeding jaggery, gram flour (Cicer arietinum) and fenugreek (Trigorella foenumgraecum L.)
Year/Season:	Rabi 2022-23
Farming situation:	-
Problem diagnosis:	Poor and unbalance feeding to animals due low milk production

Thematic area:	Livestock Production and Management
No of trials:	4 (05 in each group)
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of feed supplement
T2 –Recommended Practice-	250 g jaggery, 250g gram flour and 250 g fenugreek seed prepare the paste and give twice a day to the animal suffering from decreased milking efficiency up to 10 days.
T3- Recommended Practice-	-
Date of sowing:	First week of October
Date of harvesting:	Last week of December
Source of technology:	ITK Book – 2004, S.N. 3361
Characteristics of technology:	Enhance the milk production by using the feed supplement of jaggery, gram flour and fenugreek .
Name of Crop/Enterprises:	Milch Buffaloes
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	Rice	Indigenous Technical Knowledge	Demonstration of ITK (Neem oil) against Rice insect pests	Neem oil	Kharif 2023	4.80	12	No. DH & WEH / Sq.m, % Leaf damage, yield (q/ha), Economics
2	Maize	Integrated Pest Management	Demonstration of IPM module for fall army worm management	Pheromone traps, Metarhizium, Emamectin benzoate 5 SG & Chlorantraniliprole 18.5% SC	Rabi 2024	4.80	12	% plant damage, Catches male moth/weak, yield, Economics
3	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
4	Lathyrus	Integrated crop management	FLD on improved Utera (Relay cropping) technique in Lathyrus	Improved seed variety "Mahateora/Prateek", Biofertilizer (<i>Rhizobium</i> and PSB), NPK (19:19:19), systemic insecticide (as per requirement)	Rabi 2023	4.8	12	No. of nodule/plant, no. of pod/plant, yield, economics
5	Wheat	Integrated crop management	FLD on Natural farming of Wheat	seed of wheat	Rabi 2023	4.8	12	No. of Spikelet/plant, yield, economics

6	Mustard	INM	Demonstration of Secondary nutrient in oil seed crop (Mustard)	Fertilizer-SSP	Rabi 2023	5.0	12	Number of siliqua /plant, yield, 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 2024	160
2	Farmers Training	20	June, July, August, October, November ,December 2023, January 2024	510
3	Media coverage	8	August, December 2023 January 2024	Mass
4	Training for extension functionaries	6	June, November 2023, February 2024	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
Broad bed furrow seed drill	Soybean	Kharif, 2023	12	5	Broad bed furrow seed drill for sowing of soybean	Seed saving (kg/ha), No. of plants/m ² , No. of pods/plant, Yield, B:C ratio	Seed saving(kg/ha), No. of plants/m ² , No. of pods/plant, Yield, B:C ratio	Seed saving(kg/ha), No. of plants/m ² , No. of pods/plant, Yield, B:C ratio
Seed cum fertilizer drill	Coriander	Rabi, 2023	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

*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
Quails	Japanese quail	15	750	750 Quail chicks	Body weight, Economics & B:C ratio	Body weight	Body weight
Milch Cows	Non-descript	06	24	Radish leaves	Milk yield, Economics & B:C ratio	Milk yield	Milk yield

**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
Kitchen garden	Seasonal vegetables	12	12	Vegetable seedlings	production (kg/unit area), Net return (Rs. Per unit area)	-	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Soybean	ICM & AEG	BBF method of sowing & seed treatment	Machine, Seed & cultures	Kharif 2023	20	50	Low yield & crop damage due to heavy rainfall
2	Pigeon pea	ICM & AEG	Ridge & furrow method of sowing & seed treatment	Seed & cultures	Kharif 2023	10	25	Low yield due to poor crop density
3	Chickpea	ICM & AEG	BBF method of sowing & seed treatment	Machine, Seed & cultures	Rabi 2023	20	50	Low yield due to high weed infestation & collar rot mortality
4	Mustard	ICM, AEG & IPM	Line sowing, seed treatment & insect management	Machine, Seed, cultures & pesticides	Rabi 2023	10	25	Low yield due to poor crop density

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	October 2023, December 2023, February 2024	100
2	Farmers Training	4	June, November	100
3	Media coverage	4	August, November	mass
4	Training for extension functionaries	2	June, November	60

Training (Including the sponsored and FLD training programmes):

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
Micro nutrient deficiency in crops	01	01	7	6	13	4	6	15	28	
Nutrient Use Efficiency	02	01	12	15	27	6	13	19	46	
Soil and Water Testing	-	-	-	-	-	-	-	-	-	
Total	13	5	66	71	137	27	49	83	247	

IV Livestock Production and Management

Dairy Management	-	-	-	-	-	-	-	-	
Poultry Management	3	1	15	15	30	10	20	30	
Disease Management	3	1	10	20	30	10	20	30	
Feed management	-	-	-	-	-	-	-	-	
Production of quality animal products	-	-	-	-	-	-	-	-	
Total	6	2	25	35	60	20	40	60	120

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	-	-	-	-	-	-	-	-

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST			Grand Total	
			Male	Female		Total	Male	Female		Total
IX Production of Inputs at site										
Vermi-compost production	03	0 1	07	22		29	02	11		13
Organic manures production	02	0 1	12	16		28	03	13		16
Total	5	1	19	38		57	5	24		29
X Capacity Building and Group Dynamics	-	-	-	-	-	-	-	-	-	-
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	01	01	0	32	-	32	5	-	-	5
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR 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
(B) RURAL YOUTH										
Mushroom Production	9	3	0	15		15	0	15		15

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
mainstreaming through SHGs									
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL	12	1	210	30	240	90	30	120	360

B) OFF Campus

[illegible]

development									
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	-	-	-	-	-	-	-	-	-
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										
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	-	Integrated	1	40	0	40	10	0	10	50

2023		Crop Management								
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										
April 2023	-	Poultry Management	1	15	15	30	10	20	30	60
November 2023	-	Disease management	1	10	20	30	10	20	30	60
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

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										
September 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										
April 2023	-	Poultry Management	1	15	15	30	10	20	30	60
November 2023	-	Disease management	1	10	20	30	10	20	30	60
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

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										
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

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
Extension Literature	10	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Advisory Services	15	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
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	Scented Rice	C.G. Javaful	20
	Rice	C.G. Devbhog	75
	Rice	Vikram TCR	30
	Wheat	C.G. 1029	40
OILSEEDS	Soybean	C.G. Soya 1	15
	Linseed	RLC 133	8
PULSES	Chickpea	C.G. Chana-2	60
	Lathyrus	Mahateora	6
VEGETABLES	Turmeric	Roma	20
	Turemric	Surama	20
	Coriander	C.G. Shree Chandrahasini Dhaniya-2	12
	Palak	All Green	2.0
FLOWER CROPS	Marigold	Pusa Basanti	0.1

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava	Allahabad Safeda	1000
	Pomegranate	Super Bhagwa	500
SPICES	Lime	Kagzi lime	150
	Turmeric	Roma	56000
VEGETABLES	Cabbage	-	2000
	Cauliflower	-	2000
	Tomato	-	5000
	Brinjal	-	2000
	Chilly	-	2000
FOREST SPECIES	-	-	-
	-	-	-
	-*	-	-
ORNAMENTAL CROPS	Gallardia	-	5000
	Marigold	Pusa basanti	5000
PLANTATION CROPS	-	-	-
	-	-	-
	-	-	-
Others (specify)	-	-	-

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	20

	• Training & Demonstration of Azolla cultivation • Meeting under VCRMC	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 Gariyaband

1.1 Name of the Programme Coordinator with phone & mobile No

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha): 20

S. No.	Item	Area (ha)
1	Under Buildings	2
2	Under Demonstration Units	2.5
3	Under Crops	14
4	Orchard/Agro-forestry	1.5
5	Others (specify)	
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	20.01.2021	500	1.41 Cr.			
2	Farmers Hostel							
3	Staff Quarters (6)							
4	Demonstration Units (Vermicompost, NADEP)	Zila panchayat	10.02.2020	100	4.58 Lac			
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown	RKVY, SMSP	02/08/2022		35 Lac			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Power Tiller)				
Motor Cycle 2	2014	45000		
Bolero(Jeep)	2012	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	

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

Sl. No.	Tentative Date
1	15 June 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	Eastern Plateau and Hill (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	Eastern Plateau and Hill
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
	Imbalanced use of fertilizer by farmers. Lack of awareness about improved and hybrid varieties. Lack of Knowledge about improved cultivation practices.	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
•	•	•	•

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	
Bushes	
Current Fallow	5887
Other Fallow	3717
Agricultural Land	144163
Area Sown	
Kharif	144337
Rabi	81210
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			
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	Rice	104132	246.48	23.80
2	Maize	17240	77.37	4370
3	Black gram	8654	3.72	430
4	Pigeon pea	5384	4.70	845
5	Green gram	1180	0.75	640

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	29.6	26.48	12.83
Feb, 22	0.0	30.32	11.69
Mar, 22	0.0	37.18	16.71
Apr, 22	7.0	41.14	21.85
May, 22	24.6	41.13	24.57
Jun, 22	140.9	38.29	24.6
July, 2022	318.3	30.85	23.12
Aug., 2022	352.1	31.38	22.67
Sept., 2022	231.4	31.50	22.28
Oct. 2022	47.9	30.96	18.63
Nov. 2022	0.0	30.04	11.11
Dec. 2022	0.0	29.94	9.39

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 (2022)

S · N o	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
	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
	Gariyaband	Chhura	Khatti	Paddy		
	Gariyaband	Chhura	Atarmara	Paddy		
	Gariyaband	Chhura	Panduka	Paddy		
	Gariyaband	Chhura	Rajankatta	Paddy, Chickpea		
	Gariyaband	Chhura	Pachpedi	Paddy		
	Gariyaband	Gariyaband	Maalgaon	Paddy		
	Gariyaband	Gariyaband	Sadohli	Paddy		
	Gariyaband	Gariyaband	Fulkarra	Paddy		
	Gariyaband	Gariyaband	Tavarbahara	Paddy		
	Gariyaband	Gariyaband	Mardakala	Chickpea		
	Gariyaband	Gariyaband	Kochway	Paddy, Vegetables		
	Gariyaband	Gariyaband	Hardi	Paddy		
	Gariyaband	Gariyaband	Patharmohan da	Paddy		
	Gariyaband	Gariyaband	Kokdi	Paddy		
	Gariyaband	Gariyaband	Bindranavagadh	Paddy		
	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	Large population of unproductive animals
11	Poor accessibility of health care and poor adoption of management practices
12	Farming based on single enterprise
13	Cost of inputs in fish production increases
14	Low yield of fish

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
8	36	4	69

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
35	1210	640	3190

Seed Production (Qtl.)	Planting material (Nos.)
400	58000

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	Variety assessment		Insect-pest tolerant rice variety	Assessment of Rice var. MTU 1153					Rice var. MTU 1153
2	Variety assessment		Wheat variety suitable for late sowing	Assessment of Wheat var. CG Gehu 4 / CG 1029 (Kanishka)					CG 1029 (Kanishka)
3	Natural farming		Soil health management and reduction of production cost	Assessment of Chickpea under Natural farming practices					
4	Crop management		Management of broad leaf weeds in chickpea	Assessment of herbicide Topramezone in Chickpea					Herbicide Topramezone
5	ITK		Enhance sprouting of elephant foot yam	Assessment of ITK for increase sprouting in Elephant Foot Yam					
6	Variety assessment		Enhance productivity of sweet potato	Assessment of high yielding variety of Sweet potato					variety of Sweet potato
7	Pest Management		Insect and diseases tolerant of brinjal	Assessment of Brinjal var. Kasi Uttam					Brinjal var. Kasi Uttam
8	Variety assessment		Enhance productivity of Coriander	Assessment of Coriander var. CG Shri Chandrahasini Dhaniya-2					Coriander var. CG Shri Chandrahasini Dhaniya-2
9	Conservation of resource		Conservation of resource		Demonstration of improve utera technique in Lathyrus	Training on improve utera technique in Lathyrus		Field days	Lathyrus Seed
10	Crop management		Increase productivity of mustard		Demonstration of Mustard var. CG Sarson – 1	Training on Oilseed production in Rabi		Field days	Mustard var. CG Sarson – 1
11	Nutritional Security		Nutritional Security		Demonstration of Nutri-Garden	Training on Badi development	Training on Badi development		Vegetable seed
12	Pest Management		Disease tolerant tomato variety		Demonstration of Tomato var. Kasi Aman			Field days	Tomato var. Kasi Aman
13	Pest Management		Popularization of millets		Demonstration of Ragi and Kodo	Training on minor millets production	Training on minor millets production	Field days	Seed of Ragi and Kodo

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				1				1	4
Natural Farming			1							1
Weed Management			1							1
ITK									1	1
IPM					1					1
TOTAL	2		2		2				2	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
-	-	-	-	-	-	-	-	-
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of Rice var. MTU 1153	
Problem diagnosed	Insect-pest infestation (BPH, Panicle mite)	
Farmers' Practices	Cultivation of rice variety MTU – 1010	
Details of technologies selectedfor assessment	T ₁	Cultivation of rice variety MTU – 1010
	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	0.4 ha	
No. of farmers	4	
Total cost	4800	
Critical input	Seed, Bio-fertilizer	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Insect damage/m ² , Effective tiller/hill, No. Grain/panicle, Yield q/ha and B:C ratio	

OFT -2

Crop/Enterprise	Wheat
Title of on-farm trial	Assessment of Wheat var. CG Gehu 1029 under late sown irrigated conditions
Problem diagnosed	Low yield due to late sowing of wheat with inadequate choice of variety
Farming situation	Irrigated Lowland / Midland
Prod. system and thematic area	Rice-Wheat, Varietal Assessment
Farmers' practices	Cultivation of wheat variety GW 366
Details of tech. selected for assessment	Wheat var. CG Gehu 4 Duration 115-120 days, Yield 50 – 55 q/ha
Source of technology	IGKV, Raipur
Plot size	0.4 ha
No. of farmers	4
Total cost	5000
Critical input	Seed, Bio-fertilizer
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Sowing time, Effective tiller/plant, Grain/spike, Yield, B:C ratio

OFT -3

Crop/Enterprise		Chickpea	
Title of on-farm trial		Assessment of Chickpea under Natural farming practices	
Problem diagnosed		Soil health management and reduction of production cost	
Farming situation		Irrigated Midland	
Prod. system and thematic area		Rice – Pulse, Varietal Assessment	
Farmers' practices		Conventional method	
Details of tech. selected for assessment		Seed treatment with Beejamrit + soil application of Ghanjeevamrit @250kg/ha + Jeevamrit @ 500 lit / ha /+Spray of Neemastra / Bramhastra	
Source of technology		RVSKV, Gwalior	
No. of farmers - 4		Area of each trial - 0.4 ha	No. of trial - 4
Critical input		Seed (RVG 202), Jaggery, Besan (Inputs for preparation of different formulations of Natural Farming)	
Performance indicators Observation to be recorded		Plant height, Plant wt, Nodules/plant, No. of pods /plant, Yield, B:C ratio	
Cost of input		Rs. 6240/-	
Total cost		Rs. 6240/-	

OFT -4

Crop/Enterprise		Chickpea	
Title of on-farm trial		Assessment of herbicide Topramezone in Chickpea	
Problem diagnosed		Low yield due to weed infestation	
Farming situation		Irrigated Midland	
Prod. system and thematic area		Rice – Pulse, Weed management	
Farmers' practices		Manual weeding, No herbicide	
Details of tech. selected for assessment		Application of herbicide Topramezone @ 19.4 g a.i./ha (20-25 days after sowing) for control of Broad Leaf Weeds	
Source of technology		IGKV, Raipur	
No. of farmers - 4		Area of each trial - 0.4 ha	No. of trial - 4
Critical input		Herbicide	
Performance indicators Observation to be recorded		No. of weeds/m ² , Plant population, No. of pods/plant, Yield, B: C ratio	
Cost of input		Rs. 3000/-	
Total cost		Rs. 3000/-	

OFT -5

Crop/Enterprise	Elephant Foot Yam	
Title of on-farm trial	Assessment of cow dung slurry for sprouting of corn in Elephant Foot Yam	
Problem diagnosed	High cost of planting material due to high seed rate	
Farming situation	Irrigated midland	
Prod. system and thematic area	Rice – Vegetable, ITK	
Farmers' practices	Use of whole tuber for planting	
Details of tech. selected for assessment	Tuberous roots of elephant foot yam are divided into many pieces weighing 150-200g, dipped in freshly prepared cow dung slurry, dried in shade and kept in shed for sprouting, this results in sprouting within 5-6 days, giving 100% germination.	
Source of technology	ITK, ATARI Zone IX	
No. of farmers - 5	Area of each trial - 500 m ²	No. of trial - 5
Critical input	Seed (Corm)	
Performance indicators Observation to be recorded	Germination %, Tuber yield (kg/plant), Yield (q/ha), B:C ratio	
Cost of input	Rs. 80000/-	
Total cost	Rs.80000/-	

OFT -6

Crop/Enterprise	Sweet potato	
Title of on-farm trial	Assessment of Sweet potato var. Indira Naveen	
Problem diagnosed	Low yield of existing varieties	
Farming situation	Irrigated midland	
Prod. system and thematic area	Rice – Vegetable, Varietal Assessment	
Farmers' practices	Use of local variety	
Details of tech. selected for assessment	Sweet potato, Var. Indira Naveen Tuber colour- Pinkish red, Tuber flesh colour- Cream colour, tolerant to sweet potato weevil, suitable for double cropping, Average yield- 26 t/ha	
Source of technology	IGKV, Raipur	
No. of farmers - 5	Area of each trial - 500 m ²	No. of trial - 5
Critical input	Sweet potato cutting	
Performance indicators Observation to be recorded	Yield q/ha, B:C ratio	
Cost of input	Rs. 56250/-	
Total cost	Rs. 56250/-	

OFT -7

Crop/Enterprise	Brinjal	
Title of on-farm trial	Assessment of Brinjal var. Kasi Uttam	
Problem diagnosed	Yield loss due to wilt diseases	
Farming situation	Irrigated Midland	
Prod. system and thematic area	Rice – Vegetable, IDM	
Farmers' practices	Cultivation of private company variety	
Details of tech. selected for assessment	Brinjal var. Kasi Uttam Fruit colour light purple, average weight 150 g. Very soft flesh, tolerant to wilt, Yield – 500-600 q/ha	
Source of technology	IIVR, Varanasi	
No. of farmers - 5	Area of each trial - 1000 m ²	No. of trial - 5
Critical input	Seed	
Performance indicators Observation to be recorded	Wilted plant/ m ² , Yield q/ha, B:C ratio	
Cost of input	Rs. 5000/-	
Total cost	Rs. 5000/-	

OFT -8

Crop/Enterprise	Coriander	
Title of on-farm trial	Assessment of Coriander var. CG Shri Chandrahasini Dhaniya-2	
Problem diagnosed	Less yield due to use of local varieties	
Farming situation	Irrigated Midland	
Prod. system and thematic area	Rice – Vegetable, Varietal Assessment	
Farmers' practices	Use of Local Variety/Existing	
Details of tech. selected for assessment	Coriander- CG Shri Chandrahasini Dhaniya-2 Duration- 105-110 days, Moderately resistant to powdery mildew, wilt and aphid, yield- 14 q/ha	
Source of technology	IGKV, Raipur	
No. of farmers - 5	Area of each trial - 2000 m ²	No. of trial - 5
Critical input	Seed	
Performance indicators Observation to be recorded	No. of seeds per umbel, yield q/ha, B:C ratio	
Cost of input	Rs. 8000/-	
Total cost	Rs. 8000/-	

Information about Extension OFT: No

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: No

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	Lathyrus	Resource Conservation	Improve Utera cultivation	Lathyrus seed	Rabi	05	12	Yield, Plant nodules
2	Mustard	Variety Demo	Improve Variety	Seed	Rabi	05	12	Yield Plant height, Sliqua/plant
3	Vegetable	Nutri-garden	Badi Cultivation	Veg. seed	Round the year	02	50	Veg yield/unit
4	Tomato	IDM	Tolerant Variety	Seed	Rabi	02	10	Diseased plant/ m
5	Minor Millets	Crop Production	Improve Production Tech	Seed	Kharif	05	12	Yield

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	Nov, Feb	200
2	Farmers Training	4	June, Nov	100
3	Media coverage	4	Round the year	Mass
4	Training for extension functionaries	2	June, Nov	50

Details of FLD on Enterprises - No 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 - No

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 - No

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 (2023-24)

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	3	Oct- Nov, Jan-Feb	350
2	Farmers Training	6	June, Sep, Nov, Jan	300
3	Media coverage	7	Round the year	Mass
4	Training for extension functionaries	3	June, Nov, Jan	135

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	10	5	15	25	5	30	45
Resource Conservation Technologies	3	1	35	10	45	50	20	70	115
Integrated Farming	1	1	10	5	15	25	5	30	45
Water management									
Seed production									
Integrated Crop Management	3	1	35	10	45	50	20	70	115
Total	8	8	90	30	120	150	50	200	320
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	1	1	10	5	15	25	5	30	45
Protective cultivation (Green Houses, Shade Net etc.)	2	1	20	10	30	50	10	60	90
Total	3	3	30	15	45	75	15	90	135
b) Fruits									
Management of young plants/orchards	1	1	10	5	15	10	5	15	30
Total	1	1	10	5	15	10	5	15	30
c) Ornamental Plants									
Total									
d) Plantation crops									
Total									
e) Tuber crops	2	1	20	10	30	50	10	60	90
Total	2	2	20	10	30	50	10	60	90

[illegible]

[illegible]

[illegible]

B) OFF Campus

[illegible]

1. On Campus

[illegible]

[illegible]

2. Off Campus

[illegible]

[illegible]

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]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	Swarna, CG Zink Dhan 1, CG Deobhog, Dubraj selection 1	400
OILSEEDS	Mustard	CG Sarso 1	12
PULSES	Chickpea	RVG, Indira Chana 2	10
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava	L49, Allahabad Safeda	5000
	Papaya	Red lady	10000
SPICES	Mango	Dashari, Langra	500
VEGETABLES	Tomato	Kashi, Aman	10000
	Brinjal	Kashi , Uttam	10000
	Chilly	-	10000
	Cauliflower	-	10000
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 No

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	1
2			
3			

Success stories/Case studies identified for development as a case: 1....(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, Farmer interface
2	Rural Youth	interface
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	PRA, Field Survey , Secondary Data
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	Pachpedi	Gariyaband	15
2	Mardakala	Gariyaband	30
3	Khamhari	Gariyaband	32
4			
5			
6			
7			
8			

1. No. of farm families selected per village : 15
2. No. of survey/PRA to be conducted: 3

3.11. Activities of Soil and Water Testing Laboratory No

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	Convergence

Give details of programmers implemented under National Horticultural Mission No

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
Round the year	Natural Farming	Farmers, Students

Planning for Crop Cafeteria

Total Area of Crop cafeteria: ___25___ Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	25 Rice verity	HYV Improved verities of Rice	625
Wheat	Rabi	10	HYV	250
Chickpea	Rabi	5	HYV	125
Linseed	Rabi	4	HYV	100

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Dairy	Shahiwal Breed of Cow	200	Milk
Mushroom Unit		100	Mushroom and Span Prod
Poultry	Kadaknath Breed	100	Chicks
Shade Net House	Planting Material	600	Seedlings

ANNUAL ACTION PLAN 2023

KVK- Janjgir-Champa

Year of sanction 2023-24

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
I/c Dr. Rajiv Dixit	KVK, Janjgir-Champa	9300903666	Rajivdixit468@gmail.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	-	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Shri Rajiv Dixit	SMS (Horticulture)	Ph.D. (Horticulture)	15600-39100 +GP5400, 71100	09/05/2017	09/05/2017	9300903666	Rajivdixit468@gmail.com	
3	Subject Matter Specialist	Shri Shashi Kant Suryavanshi	SMS (Agronomy)	M.Sc.(Ag.)	15600-39100 +GP5400, 71100	06/09/12	06/09/12	9981832779	Shashi.cpd@gmail.com	
4	Subject Matter Specialist	Shri Ranjeet Kumar Modi	SMS (Entomology)	M.Sc. (Ag.)	15600-39100 +GP5400, 67000	29.10.2014	18.09.2019	7999865762	Ranjeetmodi143@yahoo.co.in	
5	Subject Matter Specialist	Er. Ashulata Dhruv	SMS (Ag. Engg.)	Ph.D. (FMPE)	15600-39100 +GP5400, 56100	06/10/2018	06/10/2018	8085972492	ashulnetam@gmail.com	
6	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
7	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
8	Programme Assistant	-	-	-	-	-	-	-	-	-
9	Computer Programmer/ Programme Assistant	Smt. Maheshwari Upasak	Program Assistant (Computer)	M.C.A.	9300-34800 +GP 4200	20/09/2012	20/09/2012	9907946167	Maheshwari261026@gmail.com	
10	Farm Manager	Shri Chandrashekhar Khare	Farm Manager	M.Sc.(Ag.)	9300-34800 +GP 4200	09/10/2014	09/10/2014	8770414150	Chandrashekhar.khare@rediffmail.com	
11	Assistant Contractual	Shri Jagdish Prasad Patel	Assistant Grade-1	B.Sc.		25/08/2021	25/08/2021	8770444297	-	Contractual
12	Jr. Stenographer / Comp. Operator	-	-	-	-	-	-	-	-	
13	Driver Contractual	Shri Amit Kumar Sahu		B.Sc.		07/09/2021	07/09/2021	9617845898		Contractual
14	Driver	-	-	-	-	-	-	-	-	-
15	Supporting staff	-	-	-	-	-	-	-	-	-
16	Supporting staff Contractual	Shri Manish Patel	Peon	B.Sc.		27/08/2021	27/08/2021	9131013234		Contractual

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)- Area under Dairy, Fisheries, Road, Threshing floor, staff quarters	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 2	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	05.06.2023

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	

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	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	-	-	-
Feb, 22	-	-	-
Mar, 22	-	-	-
Apr, 22	-	-	-
May, 22	-	-	-
Jun, 22	-	-	-
July, 2022	-	-	-
Aug., 2022	-	-	-
Sept., 2022	-	-	-
Oct. 2022	-	-	-
Nov. 2022	-	-	-
Dec. 2022	-	-	-

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous		 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
Crossbred/ Indigenous		 MT wool	 kg
Goats		 MT	 kg
Pigs Crossbred/ Indigenous		---	---
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
11	55	06	48

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2500	30	Mass

Seed Production (Qtl.)	Planting material (Nos.)
500	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
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	Brinjal	
Title of on farm trial	Assessment of grafted brinjal in wilt affected area	
Problem diagnosed	Bacterial wilt problem	
Farmers' Practices	Control (Farmer were using various hybrid /OP variety of brinjal)	
Details of technologies selectedfor assessment	T ₁	Grafting Techniques
	T ₂	
Source of technology	IGKV, Raipur	
Plot size		
No. of farmers	7	
Total cost	5000/-	
Critical input	Grafted brinjal	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield, Net Returns, B:C ratio, No. of wilt infested plant/ sq m	

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:

OFT-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 grafted brinjal in wilt affected area
Year/Season:	2023
Farming situation:	Irrigated

Problem diagnosis:	Bacterial wilt problem
Thematic area:	CP
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-	Control (Farmer were using various hybrid /OP variety of brinjal)
T2 –Recommended Practice-	Grafting Techniques
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	Grafting Techniques
Name of Crop/Enterprises:	Brinjal
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)	Horticulture
Title of on-farm trial:	Assessment of Turmeric cultivation under mulching condition
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Weeding problem
Thematic area:	CP
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 use of Mulch
T2 –Recommended Practice-	Turmeric cultivation under mulching condition
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	PAU Ludhiyana 2016
Characteristics of technology:	Turmeric cultivation under mulching condition
Name of Crop/Enterprises:	Turmeric
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-3

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/	Horticulture

Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	
Title of on-farm trial:	Assessment of Pre and post emergence Herbicide in Rabi Onion
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Weed problem in Onion Cultivation
Thematic area:	Integrated 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-	Two hand weeding
T2 –Recommended Practice-	Applying Oxyflurofen 23.5 % @ 400 gm /ha at PPI (Pre plant incorporation)with one hand weeding and post emergence at 20 DAT with one hand weeding 60 DAT
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	<i>NRC onion and garlic centre, Rajgurunagar</i>
Characteristics of technology:	Grafting Techniques
Name of Crop/Enterprises:	Onion
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)	Plant Protection
Title of on-farm trial:	Assessment of Control of shoot and fruit borer through use of tobacco (Nicotiana tabaccum) soaked water in brinjal (Solanum melongena)
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Shoot and fruit borer in brinjal
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-	Chemical insecticide
T2 –Recommended Practice-	spray of tobacco soaked water (1 : 10) Wota T trap for shoot and fruit borer
T3- Recommended Practice-	-
Date of sowing:	-

Date of harvesting:	-
Source of technology:	Birsa Agricultural University, Kanke, Ranchi (Jharkhand)
Characteristics of technology:	Grafting Techniques
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-5

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 against stem borer of Paddy
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Stem borer is second highest infesting insect and causing damage every year
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-	Use of chemical pesticide
T2 –Recommended Practice-	Use of light trap, Pheromone trap, Bird percher, Botanical and bio control agent and if require chemical pesticide
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	Grafting Techniques
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-6

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 miticide against panicle mite of Paddy
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Causing Infestation upto 20% in our district

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-	Hexythiazox 5.45 EC@ 500 ml/ha during booting stage
T2 –Recommended Practice-	Diafenthuron 50% WP@ 15 ml of water+propiconazole
T3- Recommended Practice-	Use of Sulphur powder
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	Diafenthuron 50% WP@ 15 ml of water+propiconazole
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

OFT-7

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 against stem borer of Wheat
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Causes 10% losses
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-	Use of chemical pesticide
T2 –Recommended Practice-	Use of light trap, Pheromone trap, Bird percher, Botanical and biopesticide and if require chemical pesticide
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-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 verticillium against mustard aphid.
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Heavy infestation of mustard aphid
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-	Use of chemical pesticide
T2 –Recommended Practice-	Use of verticillium (Biopesticide) ,2 lit / Acre
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	Use of verticillium ,2 lit / Acre
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

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 Happy Seeder to utilize soil moisture for cultivation of Chickpea
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Delay in sowing of rabi crop affect proper utilization of residual moisture
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-	Traditional method of sowing
T2 –Recommended Practice-	Use of Happy Seeder
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-

Source of technology:	CCSHAU, Haryana
Characteristics of technology:	Use of Happy Seeder
Name of Crop/Enterprises:	Chickpea
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)	Agri Engineering
Title of on-farm trial:	Assessment of planting of maize by Multi-crop planter
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	Traditional method of sowing requires more seed rate, time consuming and high labour cost
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-	Traditional method of sowing
T2 –Recommended Practice-	Sowing with the help of Multi-crop planter
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Ludhiana, Punjab
Characteristics of technology:	Sowing with the help of Multi-crop planter
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

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
Year/Season:	2023
Farming situation:	Irrigated
Problem diagnosis:	
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-	
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 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	Coriander	Varietal evaluation	High yielding variety chhattisgarh Dhaniya 2	Seed	Rabi 2023	1	7	Yield, No. of cutting, B: C Ratio
2	Arbi	Varietal evaluation	High yielding variety -Variety-Indira Arvi-1	Seed	Kharif 2023	1	7	
3	Wheat	Weed Management	Clodinafop propagyl 60g/ha+ Metsulfuron methyl 4g/ha (Vesta @ 160g/Acre) at 30 DA S	Seed	Rabi 2023	5	8	
4	Paddy	FMP	Sowing with the help of TD seed drill	Tractor Drawn seed drill	Kharif 2023	5	10	
5	Paddy	IPM	Biopesticide metarizzium 150 ml/tank	Biopesticide metarizzium	kharif 2023	5	8	
6	Chickpea	IPM	Use of light trap, Pheromone trap, Birdpercher Botanical and biopesticide and if require chemical pesticide	light trap, Pheromone trap, Bird percher	Rabi 2023	5	8	

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	-	-	-
2	Farmers Training	12	6	300
3	Media coverage	6	6	-
4	Training for extension functionaries	5	5	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
Tractor drawn seed drill	Paddy	Kharif, 2023	8	5	Tractor drawn seed drill	Yield, B:C Ratio, Cost Saving (Rs/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 (2023-24)

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	Seed, Pesticide	Rabi-23	50	100	-
2	Urd		Seed Treatment, Line sowing	Seed, Pesticide	Summer -24	10	20	-

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	2	150
2	Farmers Training	6	3	150
3	Media coverage	4	2	-
4	Training for extension functionaries	2	2	40

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	4	4			40			80	120
Resource Conservation Technologies									
Integrated Farming	4	4			40			80	120
Water management									
Seed production	5	5			50			100	150
Integrated Crop Management									
Total									
II Horticulture									
a) Vegetable & fruit Crops									
Off-season	2	2			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		
Bio-control of pests and diseases	6	6			40			80	120	
Production of bio control agents and bio pesticides	2	2			20			40	60	
Total										
VIII Fisheries										
Integrated fish farming										
Total										
IX Production of Inputs at site										
Vermi-compost production	8	8			60			120	180	
Organic manures production										
Total										
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	8	8			60			120	180	
Bee-keeping										
Seed production										
Planting material production										
Vermi-culture										
Value addition										
Sheep and goat rearing										
Para extension										

[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	4	4			40			80	120
Resource Conservation Technologies									
Cropping Systems	4	4			40			80	120
Crop Diversification									
Integrated Farming	5	5			50			100	150
Water management									
Seed production									
Nursery management									
Integrated Crop Management									
Fodder production									
Production of organic inputs									
Total									
II Horticulture									

1. On 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										
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 cum awareness programme on Energy and water conservation	Ag Engg	1 Day	RY	1								CREDA
2	Balance Fertilizer Management	INM	1 day	RY	1								National Fertilizer Limited

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy		300
OILSEEDS			
PULSES			
VEGETABLES	Pea (Arkel)		1 Unit
	Seedling		20000
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya		2000
	Mango		2000
	Guava		500
	Pomegranate		500
	Fruit sapling		50000
SPICES	Turmeric		5
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
January to March 2020	Q1	500
April to June 2020	Q2	500
July to September 2020	Q3	500
October to December 2020	Q4	500

Details of Electronic Media to be Produced

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

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	Sevai	Dabhara	80 km
2	Dumarpara	Baradwar	30 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:.....2015.....

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
July to February	Seed Hub- Training, Awareness programme, Demonstration at farmers field, Field day	50 ha
January to December	Millet - Training, Awareness programme and exhibition of millet value added products	Mass

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 300 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	C.G. Dubraj Mutant	Medium grain & Medium Scented	12
Paddy	Kharif	Shyamala	Wild rice eradication	12
Paddy	Kharif	Purnima	Long grain & Draught tolerant	12
Paddy	Kharif	Durgeshwari	Long, Small grain, Blight tolerant	12
Paddy	Kharif	Samleshwari	Medium small grain, Blight tolerant	12
Paddy	Kharif	Jaldubi	Heighted medium grain, Gall midge resistance	12
Paddy	Kharif	C.G. Sugangandhit bhog	Small bold grain	12
Paddy	Kharif	Indira Barani Dhan	Medium grain & stem borer, Blight tolerant	12
Paddy	Kharif	C.G. Bamha Sal Poha		12
Paddy	Kharif	Maheshwari	Long small grain, BPH & stem borer tolerant	12
Paddy	Kharif	Badshah Bhog S-1	Small grain scented	12
Paddy	Kharif	Vishnu Bhog	Small grain scented	12
Paddy	Kharif	C.G. Madhuraj	Medium small grain, Best edible for sugar disease	12
Paddy	Kharif	Bamleshwari	Blight resistance & brown spot tolerant	12
Paddy	Kharif	Mahamaya	Gall midge resistance & Best	12

			for Poha	
Paddy	Kharif	Tarun Bhog	Medium grain bold scented	12
Paddy	Kharif	Danteshwari	Medium grain, Gall midge resistance	12
Paddy	Kharif	C.G. Zinc Rice	Highly zinc content	12
Paddy	Kharif	Dubraj	Medium grain scented	12
Paddy	Kharif	Indira sugandhit dhan	Medium grain scented, Gall midge resistance	12
Paddy	Kharif	C.G. Devbhog	Small bold grain	12
Paddy	Kharif	Chandrahasini	Long, small grain, gall midge resistance, BPH suseptable	12
Paddy	Kharif	Indira Aerobic	Neck Blast and Aerobic condition	12
Paddy	Kharif	Karma Masuri	Medium small grain, gall midge resistance, Blight suseptable	12
Paddy	Kharif	Rajeshwari	Long Bold grain, Leaf blast & Gall midge, Brown spot resistance, Best for Poha , Murmura	12

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Dairy Unit	1 Unit	600	20-22 Ltr/day
Duck Cum Fishery Unit	2 Unit	1500	2-2.50 lac fingerlings
Mushroom Production Unit	3 Unit	30	50-60 kg
Spawn Production Lab	1 Unit	24	30-40 kg
Ajola Production Unit	1 Unit	12	5-60 q.
Vermicompost Production unit	8 Unit	18	30-35 ton
Pomegranate Mother Orchard	1 Unit	600	500 plant
Mango Mother Orchard	1 Unit	800	500 plant
Citrus Mother Orchard	1 Unit	200	500 plant
Green Net Shed	1 Unit	300	5000-6000 plants
Hi-Tech Poly House	1 Unit	1038	50-60 q. vegetables

ANNUAL ACTION PLAN 2023

KVK JASHPUR

Year of sanction: 2007

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Shri Pradeep Kumar Kujur	-	9584893582	kvkjashpur@yahoo.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	-	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Shri P.K. Kujur	SMS and I/c SSH	Vegetable science	56100-177500 56100	08.10.2018	2018	95848 93582	pradeep.kujur94@gmail.com	
3	Subject Matter Specialist	Shri R.K. Bhagat	SMS	Soil Science	56100-177500 69000	18.09.2014	2020	62636 36208	bhagatrakesh.agb@gmail.com	
j	Subject Matter Specialist	Dr. D.K. Dewangan	SMS	Agronomy	56100-177500 56100	08.10.2018	2018	96300 86434	devendewangan@gmail.com	
4	Subject Matter Specialist	Er. Anita Lakra	SMS	APFE	56100-177500 56100	31.12.2018	2020	62601 60393	anilakra92@gmail.com	
5	Subject Matter Specialist	Shri S.K. Bhuarya	SMS	Agrometeorology	56100-177500 56100	05.09.2019	2019	78692 09132	shivbhuaarya@gmail.com	
6	Subject Matter Specialist	-	-	-	-	-	-	-	-	-
7	Programme Assistant	-	-	-	-	-	-	-	-	-
8	Computer Programmer / Programme Assistant	Shri Manish Verma	PA	Computer Science	35400-112400 38700	24.10.2019	2019	62642 53934	manish15091979@gmail.com	-
9	Farm Manager	Dr. Madhulika Singh	FM	Agronomy	35400-112400 35400	21.11.2019	2019	79878 68919	madhulikasingh271@gmail.com	
10	Assistant	Shri Edomon Beck	AG-I	-	Contractual	-	2022	94077 00297	-	
11	Jr. Stenographer / Comp. Operator	Shri Lepa Ram	AG-II	-	Contractual	-	2022	94242 52902	rlepa554@gmail.com	
12	Driver	Shri Bachchan Ram	Driver	-	Contractual	-	2022	79746 23826	bacchansidar@gmail.com	
13	Driver	Shri Jeevan Painkra	Driver	-	Contractual	-	2022	92945 19136	Jeevanpainkra1922@gmail.com	
14	Supporting staff	Shri Manoj Narange	Peon	-	Contractual	-	2022	88782 77048	manojnarange12@gmail.com	
15	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 (John Deer)	2019	584403	2234 hrs	Running
Motor Cycle (Hero Honda Glamour)	2010	44015	11992	Running
Bolero(Jeep) BS VI	2021	784265	75405	Running
TATA Sumo	2008	457050	293689	Condemn

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector Multimedia	2017	44928.00	Not Working
Android Projector	2023	21500.00	Good

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

Sl. No.	Tentative Date
1	20 June 2023

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	NA	NA	NA
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	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, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	28.90	23.20	8.11
Feb, 22	36.40	25.30	7.43
Mar, 22	0.00	37.30	14.32
Apr, 22	25.00	39.80	18.79
May, 22	34.20	38.20	22.66
Jun, 22	103.30	35.50	23.46
July, 2022	188.40	29.50	22.10
Aug., 2022	400.20	30.00	21.62
Sept., 2022	248.20	29.30	21.32
Oct. 2022	59.80	28.60	17.19
Nov. 2022	0.00	28.10	8.79
Dec. 2022	0.00	27.10	6.85

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>		0 MT.	0 kg
Buffalo		0 MT.	0 kg
Sheep			
<i>Crossbred/ Indigenous</i>		0 MT wool	0 kg
Goats		0 MT	0 kg
Pigs <i>Crossbred/ Indigenous</i>		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 (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Pathalgaon	Pathalgaon	Bahnatangar, Mudekela, Gala, Godhi,			
2	Kansabel	Kansabel				
3	Kunkuri	Kunkuri				
4	Duldula	Duldula				
5	Farsabahar	Farsabahar				
6	Jashpur	Jashpur				
7	Manora	Manora				
8	Bagicha	Bagicha				

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
09	75	4	20

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
35	1313	256	56265

Seed Production (Qtl.)	Planting material (Nos.)
160.00	7000

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	IPM	Crop	Wilt in tomato, Thrips in Chilli, red pumpkin beetle in bottle gourd	Assessment of grafted tomato against bacterial wilt	-	-	-	-	Grafted plant,
2	Varietal evaluation	Crop	Low yielding variety	-	High yielding variety of tomato (kashi adarsh)	-	-	-	Seed, insecticide, Micronutrient, Bio-agent, Bio-fertilizers

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	Tomato
Title of on farm trial	Assessment of grafted tomato against bacterial wilt
Problem diagnosed	High infestation of wilt disease in tomato
Farmers' Practices	Chemical Spray Streptocycline
Details of technologies selected for assessment	T ₁ Grafted tomato plants to be planted against soil born disease bacterial wilt T ₂ Rootstock is resistant against wilt
Source of technology	IIVR, Varanashi
Plot size	0.2 Acre
No. of farmers	10
Total cost	25000.00
Critical input	Seedlings
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	Yield/ ha

OFT-2

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	Chemical Spray (imidachlorpid @ 1ml / 2.5 liter water)
Details of technologies selected for assessment	T ₁ Integrated Pest Management 1. Blue Sticky trap 15 nos. per acre 2. Trap crop (Marigold) 3. Leaf extract (Dasparni Ark) 4. Bio agent (Beauveria bassiana, Metarhizium anisoplie @10 ml per liter of water) T ₂
Source of technology	IIVR, Varanashi
Plot size	0.2 Acre
No. of farmers	10
Total cost	10000
Critical input	Blue sticky traps, Bio agents
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	

OFT-3

Crop / Enterprise	Bottle Gourd
Title of on farm trial	Assessment of use of ash on bottle gourd to control red pumpkin beetle
Problem diagnosed	High infestation of red pumpkin beetle in bottle gourd
Farmers' Practices	Chemical Spray (profenophose @2ml per liter of water)
Details of technologies selected for assessment	T ₁ Use of ash on bottle gourd leaves at early stage for control red pumpkin beetle T ₂
Source of technology	ICAR, New Delhi (Inventory of Indigenous technical Knowledge in agriculture)
Plot size	0.2 Acre
No. of farmers	10
Total cost	
Critical input	
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	

OFT-4

Crop / Enterprise	Tomato
Title of on farm trial	Assessment of control of tomato wilt by turmeric and asafoetida extraction
Problem diagnosed	High infestation of wilt disease in tomato
Farmers' Practices	Chemical Spray
Details of technologies selected for assessment	T ₁ Use of turmeric and asafoetida extraction each 10 gm dissolve in 1 ltr of water and deep the seedling plant before planting T ₂
Source of technology	ICAR, New Delhi (Inventory of Indigenous technical Knowledge in agriculture)
Plot size	0.2 Acre
No. of farmers	10
Total cost	
Critical input	
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	

OFT-5

Crop / Enterprise	Finger Millet
Title of on farm trial	Assessment of yield of Finger millet crop in Natural farming
Problem diagnosed	Low yield and use of chemical fertilizers
Farmers' Practices	Broadcasting of seed, chemical fertilizer and chemical insecticides
Details of technologies selected for assessment	T ₁ Traditional method (Broadcasting of seeds and chemical inputs) T ₂ Line sowing (22.5cm), Seed treatment with Bijamrit, Soil application of Ghanjivamrit 250 kg/ha and foliar application of jeevamrit @500lt/ ha at 15 days interval, Neem based/Bhramhasra/leaf extract herbal insecticide as per requirement
Source of technology	IGKV, Raipur (C.G.)
Plot size	0.2 Acre
No. of farmers	05
Total cost	6000
Critical input	Seed, Beejamrit, Jeevamrit, ghanajeevamrit
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	No. of tillers/plant, No. of seeds/ panicle, Yield (q/ha), Net return (Rs/ha) and B:C ratio

OFT-6

Crop / Enterprise	Blackgram
Title of on farm trial	Assessment of Integrated weed management in Blackgram
Problem diagnosed	Yield loss due to weed infestation
Farmers' Practices	No weeding
Details of technologies selected for assessment	T ₁ Use of Alachlor @ 1 kg a.i./ha at 0-3 DAS T ₂ Use of Alachlor @ 1 kg a.i./ha at 0-3 DAS <i>fb</i> Imazathapyr @ 100 g a.i./ha at 30 DAS/ 4-5 leaf stage of weeds
Source of technology	MPAU&T, Udaipur (Rajsthan)
Plot size	0.2 Acre
No. of farmers	05
Total cost	10000
Critical input	Seed and Herbicide
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	No. of weeds/sq.m, Weed dry matter (g), Weed control efficiency (%), Yield (q/ha), Net return (Rs./ha), B:C ratio

OFT-7

Crop / Enterprise	Mustard
Title of on farm trial	Assessment of Superabsorbent Polymer (SAP) to reduce moisture stress in Mustard crop
Problem diagnosed	Low yield of mustard due to moisture stress during critical stage (pre flowering to pod formation)
Farmers' Practices	No practice adopted to reduce moisture stress
Details of technologies selected for assessment	T ₁ No practice adopted to reduce moisture stress T ₂ Use of Superabsorbent Polymer (SAP) @ 2.5 kg/ha (Seed rate @5kg/ha, RDN@80:60:30 kg/ha) SAP is network of polymer chains that are hydrophilic, highly absorbent (may contain over 90% water). During rain, the SAP absorbs and retain water just like a sponge, 350 times of its dry weight and releases the water for plants during dry period. Thus, enhances water productivity.
Source of technology	ICAR-DRMR, Bharatpur (Rajasthan)
Plot size	0.2 Acre
No. of farmers	05
Total cost	2000
Critical input	Seed and superabsorbent Polymer (SAP)
Performance indicators: I. Technical- yield (q/ ha) II. Economic III. Social – Employment generation	No. of siliqua/plant, No. of seeds/ siliqua, Yield (q/ha), Net return (Rs/ha), B:C ratio

OFT -8

1	Enterprise	Enterprises
2	Title of on-farm trial	Assessment of value addition of Finger millet
3	Problem diagnosed	Low income due to lack of knowledge about value addition
4	Farming situation	-
5	Production system and thematic area	Agro-Processing
6	Farmers' practices	No value addition of finger millet
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : Assessment of Value addition of finger millet (Ragi flour and Malt). : T ₂ :
8	Source of technology	KVK, Nizamabad (Telangana)
9	No. of animals	
10	No. of farmers	10
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	Net income (Rs), B:C Ratio

OFT -9

1	Enterprise	Enterprises
2	Title of on-farm trial	Assessment of Processing of tomato
3	Problem diagnosed	Low price of Tomato in the market during season
4	Farming situation	-
5	Production system and thematic area	Agro-processing
6	Farmers' practices	No processing of Tomato
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : Assessment of Processing of Tomato (Dry Powder) : T ₂ :
8	Source of technology	IGKV, Raipur
9	No. of animals	
10	No. of farmers	10
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	Net income (Rs), Shelf life, B:C Ratio

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	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	02	Jan to Dec	50
2	Farmers Training	03	Jan to Dec	70
3	Media coverage	15	Jan to Dec	10000
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	
						Demon.	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	
						Demon.	Local check
-	-	-	-	-	-	-	-

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Blackgram	ICM, IWM, IPM	Improved Variety, Line Sowing, Seed treatment with bio-agent, Nutrient Management, Pest Management with bio-pesticide, IPM	Seed, bio-agent, pesticide, micro-nutrient	Kharif 2023	10.00	25/25	No of pods/plant, No. of Grain / pod
2	Pigeonpea	ICM, IWM, IPM			Kharif 2023	10.00	25/25	No of pods/plant, No. of Grain / pod
3	Lathyrus	ICM, IWM, IPM			Rabi 2023-24	10.00	25/25	No of pods/plant, No. of Grain / pod
4	Niger	ICM, IWM, IPM			Kharif 2023	10.00	25/25	No. of seeds/plant
5	Mustard	ICM, IWM, IPM			Rabi 2023-24	10.00	25/25	No of Siliquae/plant,

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	05	Jan to Dec	150
2	Farmers Training	08	Jan to Dec	200
3	Media coverage	05	Jan to Dec	10000
4	Training for extension functionaries	01	Jan to Dec	20

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						Grand Total
			Others			SC/ST			
			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	5	1	6	29	3	32	5	1	38
Integrated Disease Management	2	0	2	29	6	35	2	0	37
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	7	1	8	58	9	67	7	1	75
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	5	1	6	34	3	37	43
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	5	1	6	34	3	37	43
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	9	2	11	105	33	138	149
Bee-keeping	0	0	0	0	0	0	0	0	0
Seed production	2	2	9	5	14	23	9	32	46
Planting material production	3	3	2	0	2	35	15	50	52
Vermi-culture	1	1	4	2	6	11	2	13	19
Value addition	1	1	1	0	1	17	4	21	22
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	25	9	34	191	63	254	288
(C) Extension Personnel									
Productivity enhancement in field crops	1	1	5	1	6	17	9	26	32

[illegible]

B) OFF Campus

[illegible]

1. On Campus

[illegible]

[illegible]

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	
Agriculture Extension (Capacity Building and Group Dynamics)										
0	0	0	0	0	0	0	0	0	0	0
Soil Science										
0	0	0	0	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										
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.	-	Mushroom Production	02	5	2	7	20	3	23	30
Ag. Engg.	-	Mushroom Spawn Production	03	5	2	7	20	3	23	30
Soil Science	0	0	0	0	0	0	0	0	0	0
0	0	0	0	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	14	6	21	41	15	56	77
0	0	0	0	0	0	0	0	0	0	0
Horticulture										
April	-	Production	02	5	3	8	17	5	22	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	
		technology of vegetables								
May	-	Production technology of fruit crops	02	5	3	8	17	5	22	30
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										
0	0	0	0	0	0	0	0	0	0	0

iii) Sponsored Training Programmes

S. No.	Title	Themat c area	Durat ion n	Cli ent PF/ RY/ EF	No. of cours es	No. of participants							Spo nsor ing agen cy
						Male		Female		Total			
						Other	SC/ST	Other	SC/ST	Other	SC/ST	Total	
1	Mushroom Production	Enterpris es	3 days	RY	1	-	-	-	-	-	-	30	SAU
2	Small Nursery	Enterpris es	3 days	RY	1	-	-	-	-	-	-	30	SAU

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	08	17	6	23	185	42	227	17	6	250
Kisan Mela	01	88	33	121	304	75	379	88	33	500
Kisan Ghosthi	05	5	2	7	79	14	93	5	2	100
Exhibition	04	11	5	16	135	49	184	11	5	200
Film Show	03	3	0	3	87	10	97	3	0	100
Method Demonstrations	10	11	5	16	68	16	84	11	5	100
Farmers Seminar	03	9	3	12	68	20	88	9	3	100
Workshop	01	6	2	8	47	5	52	6	2	60
Group meetings	15	35	9	44	249	57	306	35	9	350
Lectures delivered as resource persons	10	10	2	12	156	32	188	10	2	200
Newspaper coverage	20	502	326	828	792	380	1172	502	326	2000
Radio talks	03	10	9	19	120	50	170	10	9	Mass
TV talks	0	0	0	0	0	0	0	0	0	
Popular articles	02	219	185	404	1176	420	1596	219	185	Mass
Extension Literature	10	643	307	950	6782	2268	9050	643	307	10000
Advisory Services	48	9482	3598	13080	65230	11690	76920	9482	3598	90000
Scientific visit to farmers field	10	12	4	16	99	35	134	12	4	150
Farmers visit to KVK	10	350	90	440	1160	400	1560	350	90	2000

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Diagnostic visits	50	30	15	45	165	40	205	30	15	250
Exposure visits	03	15	8	23	95	32	127	15	8	150
Ex-trainees Sammelan	0	0	0	0	0	0	0	0	0	0
Soil health Camp	05	60	20	80	140	80	220	60	20	300
Animal Health Camp	0	0	0	0	0	0	0	0	0	0
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	05	15	5	20	65	15	80	15	5	100
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0
Celebration of important days (specify)	15	60	20	80	300	120	420	60	20	500
Others (pl. specify)	0	0	0	0	0	0	0	0	0	0
Total	241	11593	4654	16247	77502	15850	93352	109599	11593	4654

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	180		
OILSEEDS			
PULSES			
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	7000		
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	Animal Husbandry	Gir	8	-
				-
SHEEP AND GOAT	Sheep and Goat Farming	Barbari	6	-
POULTRY	Poultry unit	Kadaknath Quail	60 35	-
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: (05 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	<i>Kodkelkhajri</i>	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>Bansbahar</i>	Kansabel	35 km
9	<i>Ludeg</i>	Kansabel	13 km
10	<i>Bataikela</i>	Kansabel	25 km
11	<i>Dhodhibahar</i>	kunkuri	30 km
12	<i>Chidora</i>	Kansabel	25km

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	CG Deobhog, Trombay CG, CG Sugandhit bhog 1, CG Zinc rice, Shyamala, Dubraj Selection 1, Danteshwari, Indira Sugandhit bhog, Madhuraj 55, Mahamaya, Indira Barani dhan 1, Protezin, Badsah Bhog, Swarna, Tarun Bhog selection 1, Jaldubi, Vishnu bhog, Indira Aerobic, MTU 1010	Rice	700
Wheat	Rabi	Ratan, Chhattishgarh gehu 3, GW-273, GW 322, Chhattishgarh gehu 4, Amber, MP 3288, MP 3226, HD 2864	Wheat	300

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 2023

KVK - Kanker

Year of sanction: 2023

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.2022)

S. N o.	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	05.12.2007	9424710953	bbsahu71@gmail.com	
2	SMS/ Scientist 1	Shri Suresh Markam	SMS	Horticulture	15600-39100 + 5400	29.10.2014	29.10.2014	8959697310	sureshmarkam82@gmail.com	
3	SMS/ Scientist 2	Er. Narendra Haridas Tayade	SMS	FMPE	15600-39100 + 5400	01.01.2019	01.01.2019	9407909941	narendrakumarnag@gmail.com	
4	SMS/ Scientist 3	Dr. D. Suryam Dora	SMS	LPM	15600-39100 + 5400	06.10.2018	06.10.2018	9302770100	drsuryam0712@gmail.com	
5	SMS/ Scientist 4	Dr. Chandu Lal Thakur	SMS	Agronomy	15600-39100 + 5400	11.10.2018	11.10.2018	7828650576	clthakur99@gmail.com	
6	SMS/ Scientist 5	Dr. Komal Singh Keram	SMS	Soil Science	15600-39100 + 5400	23.10.2018	23.10.2018	9479273229	keramsoils@gmail.com	
7	SMS/ Scientist 6	Shri Upendra Kumar Nag	SMS	Plant Pathology	15600-39100 + 5400	11/01/2018	11/01/2018	9098642285	upnag69@gmail.com	
8	SMS/ Scientist 7	Shri Hemant Kumar Bhuarya	SMS	Agro Meteorology	15600-39100 + 5400	11/09/2019	11/09/2019	9893114801	hemant.agb@gmail.com	
9	Programme Assistant	Shri Dinesh sinha	PA (Ento)	Entomology	9300-34800/-	29.10.2014	29.10.2014	9179290663	dinesh.sinha1@gmail.com	
10	Farm Manager	Shri Pradeep Kumar Dewangan	FM	Agronomy	9300-34800/-	31.10.2019	31.10.2019	7828645754	dewangan2050@gmail.com	
11	Computer Programmer	Shri Gyaneshwar Sahu	PA (Com)	Computer	9300-34800/-	03.10.2012	03.10.2012	9893273025	gyaneshwarsahu@gmail.com	

12	Accountant / superintendent (AGI)	Meena Chauhan	AG I (Contractual)	-	2090 0/ month	08.01.20 21	08.01.20 21		Contractual	
13	Stenographer (AGII)	Smt. Usha Bhardwaj	AG II	-	184 20/ Month	08.01.20 21	08.01.20 21		Contractual	
14	Driver	Kamleshwar Sahu	Driver	12th	520 0- 2020 0/	01.08.20 18	01.08.20 18	94242268 16	kamsahuji@gmail.com	
15	Driver	Shri Roshan Lal Mandavi	Driver (Contractual)	-	1420 0/- month	12.01.20 21	12.01.20 21		Contractual	
16	Supporting staff, if any	Shri Harishankar Yadav	Watchman	8 th	475 0- 7440/ -	28.06.20 10	28.06.20 10	97547372 71	<u>harryadav470@gmail.com</u>	
17	Supporting staff, if any	Shri Rajesh Shori	Watchman (Contractual)	5th	113 60/- month	08.01.20 21	08.01.20 21		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 (Power Tiller)	2009	451015.00	4300 hr	Condemn
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	103856	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	04 April 2023
2	04 October 2023

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 harrs, 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, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	32.4	9.6	0.7
Feb, 22	0.50	0.5	0.0
Mar, 22	0.00	0.0	0.0
Apr, 22	0.00	0.0	0.0
May, 22	12.00	4.1	0.3
Jun, 22	115.20	30.1	0.1
July, 2022	656.00	86.2	0.2
Aug., 2022	543.80	142.5	0.1
Sept., 2022	214.50	64.8	0.1
Oct. 2022	89.60	30.5	0.3
Nov. 2022	0.00	0.00	0.00
Dec. 2022	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>	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 (2022)

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
12	60	14	140

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.)
500	200000

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	Extens i on activiti es	Supply of seeds, plantin g materi als etc.
1	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	Awaren ess program me Demons tration, Field day	Quality Seed
2	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	Awaren ess program me Demons tration, Field day	Improve d Seed
3	Farm mach enizat ion	Milet	Threshing of Ragi is labour intensive work	Assessment of Ragi (Finger Millet) Thresher		Advance Production technology of millets	Advance Producti on technolo gy of millets	Awaren ess program me Demons tration	Ragi Threshe r
4	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	Demons tration	Quality Seed
5	Insect pest mana geme nt	Rice	Yield loss due to brown plant hopper attack in rice	Assessment use of <i>Metarhizium anisopliae</i> as Bio control agent against rice brown plant hopper population		Insect pest management in rice	Insect pest manage ment in rice	Demons tration	<i>Metarh izium anisopli ae</i> Bio control agent
6	Disea se mana geme nt	Chickpea	High infestation of wilt disease in chickpea	Assessment of use of biocontrol agent in chickpea		Disease Management in Chickpea	Disease Manage ment in Chickpea	Demons tration	Trhicho darma, Pseudo monas and Carbend azime
7	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	Demons tration	Earthworm (E. Fetida)
8	Varie tal Evalu ation	Tomato	Low yield of tomato and higher production cost	Assessment of high yielding triple disease resistance variety of Tomato Arka Samrat		Advance vegetable crop production technology	Advance vegetable crop productio n technolo gy	Demons tration	Resistan t variety seed
9	Crop mana geme nt	Elephant foot yam	Sprouting started just after harvesting leads to spoilage and low selling price	Assessment of early planting of Elephant foot yam		Advance vegetable crop production technology	Advance vegetable crop productio n technolo gy	Demons tration	Plnting material

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	1		1							2
Crop management					1					1
Varietal	1				1					2
Disease management	1									1
Pest management	1									1
TOTAL	6	-	1	-	2	-	-	-	-	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
Disease management		1						1
Housingh management						1		1
TOTAL	0	1	0	0	0	1	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 + waste decomposer (<i>Trichoderma</i>)
	T ₂	60% cow dung + 40% crop/plant residue + waste decomposer (<i>Trichoderma</i>)
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>), waste decomposer (<i>Trichoderma</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	Rice	
Title of on farm trial	Assessment use of <i>Metarhizium anisopliae</i> as Bio control agent against rice brown plant hopper population	
Problem diagnosed	High yield loss through brown plant hopper	
Farmers' Practices	Inadequate use of either chemical insecticide or Bio control agent	
Details of technologies selected for assessment	T ₁	Use of <i>Metarhizium anisopliae</i> 10ml/litre
	T ₂	

Source of technology	IGKV Raipur
Plot size	0.40 ha
No. of farmers	5
Total cost	Rs. 1000/- per trial
Critical input	<i>Metarhizium anisopliae</i>
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Insect infestation/spm, Yield q/ha, B:C Ratio

OFT-6

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of use of biocontrol agent in chickpea	
Problem diagnosed	High infestation of wilt disease in chickpea	
Farmers' Practices	Inadequate use of either chemical insecticide or Bio control agent	
Details of technologies selected for assessment	T ₁	Use of <i>Trichodarma</i> (1:10 <i>Traichodarma</i>:cowdung) and <i>Pseudomonas</i>(10g/kg of seed talc based formulation)
	T ₂	Use of Carbendazime 12% + Mancozeb 63% wp 2g/kg seed
Source of technology	IGKV Raipur	
Plot size	0.40 ha	
No. of farmers	5	
Total cost	Rs. 1500/- per trial	
Critical input	<i>Trichodarma</i>, <i>Pseudomonas</i> and Carbendazime	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Insect infestation/spm, Yield q/ha, B:C Ratio	

OFT-7

Crop / Enterprise	Finger millet	
Title of on farm trial	Assessment of Ragi (Finger Millet) Thresher	
Problem diagnosed	Threshing of Ragi is labour intensive work	
Farmers' Practices	Manually	
Details of technologies selected for assessment	T ₁	Finger Millet Thresher (1 hp electric motor)
	T ₂	
Source of technology	OUAT, Bhubneswar	
Plot size	0.40 ha	
No. of farmers	5	
Total cost	Rs. 1500/- per trial	
Critical input	Thresher	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Field capacity (q/hr), Labour saving (man hr), Threshing Efficiency%, Cleaning Efficiency %	

OFT-8

Crop / Enterprise	Kodo millet	
Title of on farm trial	Assessment of tractor drawn planter for sowing of Kodo millet	
Problem diagnosed	Low yield due to lack of optimum plant population	
Farmers' Practices	Broadcasting Sowing Method	
Details of technologies selected for assessment	T ₁	Tractor drawn planter for sowing of Kodo millet
	T ₂	
Source of technology	IGKV Raipur	

Plot size	0.40 ha
No. of farmers	5
Total cost	Rs. 1500/- per trial
Critical input	Seed, Planter
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield (q per ha.), Field capacity (ha/hr), Labour Saving(man hr)

OFT-9

Crop / Enterprise	Tomato	
Title of on farm trial	Assessment of high yielding triple disease resistance variety of Tomato Arka Samrat	
Problem diagnosed	Low yield of tomato and higher production cost	
Farmers' Practices	Hybrid variety available in Market	
Details of technologies selected for assessment	T ₁	Hybrid variety Arka Samrat
	T ₂	
Source of technology	IIHR, Bangluru	
Plot size	0.20 ha	
No. of farmers	5	
Total cost	Rs. 400/- per trial	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plant Height, No. of fruit per plant, Yield (q per plant), Yield q/ha, B:C Ratio	

OFT-10

Crop / Enterprise	Elephant Foot yam	
Title of on farm trial	Assessment of early planting of Elephant foot yam	
Problem diagnosed	Sprouting started just after harvesting leads to spoilage and low selling price	
Farmers' Practices	Planting in June harvesting at Feb.	
Details of technologies selected for assessment	T ₁	Planting in first week of March and harvesting at October-Nov. for high remunerative price and skip the period of high temperature in normal harvesting at February.
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	0.10 ha	
No. of farmers	5	
Total cost	Rs. 4000/- per trial	
Critical input	Planting material	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plant Height, Stem girth, Yield per plant, Yield q/ha, Selling price, Shelf life tuber, B:C Ratio	

OFT -11

1	Enterprise	Quail
2	Title of on-farm trial	Assessment of growth rate of quail in different rearing system
3	Problem diagnosed	Slow growth and lower egg production in deep litter system
4	Farming situation	-

5	Production system and thematic area	Housing management
6	Farmers' practices	Deep litter system
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : Multi layer cage system : T ₂ :
8	Source of technology	DSVCKV, Durg
9	No. of animals	300 per trial
10	No. of farmers	5
11	Critical input	Multi layer cage
12	Cost of input	Rs. 5000/- per trial
13	Total cost	Rs. 25000.00
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Weight gain in one month(kg/birds), Egg production 50 days onwards (no.)

OFT -12

1	Enterprise	Poultry
2	Title of on-farm trial	Assessment of IDM module against poultry diseases
3	Problem diagnosed	High mortality of poultry birds due to diseases
4	Farming situation	-
5	Production system and thematic area	Disease management
6	Farmers' practices	No vaccination & medicine
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : Timely vaccination Ranikhet (F-strain, Gambaro, Lasota & R2B), multivitamin : T ₂ :
8	Source of technology	DSVCKV, Durg
9	No. of animals	50 birds
10	No. of farmers	5
11	Critical input	Chicks & Vaccine
12	Cost of input	Rs. 4000/- per Trial
13	Total cost	Rs. 20000.00
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Weight gain in three months (kg/birds) Morbidity (%),Mortality (%)

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 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	Disease management	Demonstration of rice blast disease management through bio agent	<i>Pseudomonas</i>	Kharif 2023	5.00	10	Yield (q/plants), Disease incidence %, B:C ratio
2	Rice	Pest management	Demonstration insect-pest management in rice under natural farming.	Neemastra and Brahmastra	Kharif 2023	5.00	10	Yield (q/plants), Insect/pest incidence %, 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 2023	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 2023	4.00	10	Cob length (cm), No. of grains per cob, Yield (q/ha), B:C Ratio, PHSTV
5	Fodder crops	Feed management	Introduction of round the year fodder production model	Seed/planting material	Round the year 2023	1.00	4	Yield (q/ha), Milk production (litre/day), B:C Ratio
6	Finger millet	Crop Management	Demonstration of improved variety of Finger millet with ICM Practices	Seed, Bio fertilizer	Kharif 2023	4.00	10	Plant population/sqm, No. of tillers/sqm, Yield (q/ha), B:C Ratio
7	Kodo millet	Crop Management	Demonstration of improved variety of Kodo millet with ICM Practices	Seed, Bio fertilizer	Kharif 2023	4.00	10	Plant population/sqm, No. of tillers/sqm, Yield (q/ha), B:C Ratio
8	Maize	Weed Management	Introduction of Weed Management in Maize	Herbicide	Kharif 2023	4.00	10	Weed biomass (sqm), Yield (q/ha), B:C ratio
9	Marigold	Crop Management	Demonstration of pinching effect on yield of African Marigold	Seed	Rabi 2023	0.20	5	Plant height, No. of Branches, Duration of Flowering, No of Flower per plant, Flower Yield per plant
10	Ivy Gourd	Intensive cropping	Demonstration of Multi story cropping	Planting material	Kharif 2023	0.10	4	Economics, LER, 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
Baler machine	Rice	Kharif 2023	10	4.00	Baler machine	Capacity (bundles/hr), Avg. weight of bundle(Kg), Cost of operation (Rs/hr)		
Tractor drawn planter for sowing millet crop	Finger millet	Kharif 2023	10	4.00	Tractor drawn planter for sowing millet crop	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 %		
Dairy animals	Gir	5	5	Culture for making silage and Silage bag	Milk yield (litre), Cost saving (Rs.)		

*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 (2023-24)

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	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
f) Spices									
Production and Management	2	2	10	10	20	20	20	40	60

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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

B) OFF 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										
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	<i>Esina fetida</i>		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	Kumhankhar	Kanker	20
2	Gotulmunda	Durgukondal	80
3	Bewarti	Kanker	8
4	Devgaon	Narharpur	35
5	Saradhu nawagaon	Charama	25

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: _____ 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

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	69400.00	Poor condition
Motor Cycle 2	2022	90360.00	650.00	Good Condition
Bolero(Jeep)	2018	774890.00	25000.00	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	Good
		26720.00	
Fax Machine	2011	13982.00	Good
Computer Set	2011	32000.00	Good
Printer	2011	11606.00	Good
		2181.00	
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	Good
		4751.00	
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	15.02.2023
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	Rainfed	Paddy – Soybean-
2	Rainfed upland	Pigeon pea – Soybean
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	Chhattisgarh Plain Zone	
2	Vertisol (Kanhar-clayey)	low-lying deep bluish black soil with high moisture retention capacity. It is well suited for rabi crops, particularly wheat
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	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.
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 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	441.23
Forest	35.80
Waste Land	-
Other than cultivated area	19.517
Cultivable waste and alkaline land	
Pastures	27.89
Bushes	
Current Fallow	6.177
Other Fallow	5.169
Agricultural Land	
Area Sown	56.796
Kharif	1.64 lac ha
Rabi	1.40 lac ha
Zaid	
Cropping Intensity	163.8 %

Irrigated Area with Different Sources:

S. No.	Description	Area (ha)
1	Canal	16.864
2	Well	0.706
3	Tube well	43.187
4	Ponds	1.824
5	Others	

Soil types

S. No.	Soil type	Characteristics	Area “000 ha”
1	Vertisols (Kanhra-clayey)	-	103.34
2	Inceptisol (Matasi-Sandyloam)	-	27.62
3	Alfisols (Dorsa-clayloam)	-	23.13
4	Entisol (Bhata-gravelly)	-	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	82830	269198	3250
2	Soybean	16930	26546	1568
3	Groundnut	5465	10001	1830
4	Pigeon pea	24600	40713	1655
5	Moong	2250	1031	458
6	Urd	5370	4258	793
7	wheat	16500	35475	2150
8	Rapeseed	6100	4184	680
9	Linseed	2500	863	345
10	Chickpea	9300	43530	1280
11	Sugarcane	31600	2488500	78750

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m. m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22		28	12
Feb, 22		36	10
Mar, 22		40	13
Apr, 22		44	33
May, 22		45	28
Jun, 22	128.2	47	27
July, 2022	416.2	35	30
Aug., 2022	398.9	36	27
Sept., 2022	153.1	35	27
Oct. 2022		32	18
Nov. 2022		29	17
Dec. 2022		31	18

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred/ Indigenous</i>	358678	 MT.	 kg
Buffalo	40090	 MT.	 kg
Sheep			
<i>Crossbred/ Indigenous</i>	829	 MT wool	 kg
Goats	77181	 MT	 kg
Pigs <i>Crossbred/ Indigenous</i>	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 (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Kawardha	Kawardha	Barpelatola	OFT, FLD, CFLDs	Varietal	Varietal Evaluation
2	S. Lohara	S. Lohara	Budhwara	OFT, FLD, CFLDs	Farm Mechanization	Farm Mechanization
3	S. Lohara	S. Lohara	Gangpur	OFT, FLD, CFLDs	Farm Mechanization	Farm Mechanization
4	S. Lohara	S. Lohara	Saliha	OFT, FLD, CFLDs	IDM, IPM, ICM	IDM, IPM, ICM
5	S. Lohara	S. Lohara	Kosmanda	OFT, FLD, CFLDs	IDM, IPM, ICM	IDM, IPM, ICM
6	S. Lohara	S. Lohara	Bandhatola	OFT, FLD, CFLDs	Farm Mechanization	Farm Mechanization

Priority / Thrust areas

S. No.	Particulars
1.	➤ Introduction of sugarcane varieties resistant to Whip Smut
2.	➤ Varietal replacement in various crops
3.	➤ Change in Paddy-chick pea/ soybean- chick pea cropping systems
4.	➤ Introduction of sugarcane varieties resistant to red rot, root borer and shoot borer
5.	➤ Insuring production and availability of <i>Trichoderma viride</i> locally
6.	➤ Combined use of organic manures and inorganic fertilizer
7.	➤ Enhancement of milk & meat productivity through improved breeds
8.	➤ Farm mechanization through improved agricultural implements
9.	➤ Employment generation for rural women & rural youth through income generation activities

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	72	16	199

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
145	4175	23	155

Seed Production (Qtl.)	Planting material (Nos.)
1000	21900

S. N o.	Thrust area	Crop/Enter prise	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</i> mutant culture for management of Pigeon pea wilt		2		2	<i>Trichoderma</i> culture
6	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
7	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
8	Weed management	Chickpea	Heavy Yield Loss due to Weed Infestation	Assessment of chemical weed management in Chickpea		2		2	Weedicide
9	farm mechanization	Chickpea	Low yield Due to traditional method of sowing & water logging	Assessment of Raised bed planter for line sowing of Chickpea		2		2	Raised bed Planter
10	farm mechanization	wheat	Low yield Due to traditional method of sowing	Assessment of Happy seeder for sowing of wheat		2		2	Happy seeder
11	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
12	Integrated Crop Management	Sugarcane+onion	Farmers only take sole sugarcane	Assessment of sugarcane Onion Intercropping		2		2	seed
13	Varietal evaluation	Chilli	Low yield due to attack of thrips and anthracnose	Assessment of High yielding variety of Chilli		2		2	seed
14	Varietal evaluation	Onion	Area of soybean production decreases due to low yield.	Assessment of Onion cultivation under upland farming situation during Kharif season		2		2	seed
15	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	seed
16	Varietal evaluation	fruits & Vegetables	Bulk production of Tomato	Assessment of value addition of fruits & Vegetables for nutritional security of farm families		2		2	Tomato, spices & preservative
17	INM	Interprise	Traditional method requires long duration to decomposition, not fully decomposed, produce available once in a year	Assessment of Smart Ghuruwa Khad technique		5		5	Model Ghurwa

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

[illegible]

agriculture										
Varietal Assessment		01								
Precision agriculture			01							
Precision agriculture						1				
Precision agriculture					1					
Weed management			1							
farm mechanization			1							
farm mechanization	1									
Farm mechanization				1						
Integrated Crop Management				1						
Varietal evaluation					1					
Varietal evaluation					1					
Varietal evaluation					1					
Varietal evaluation					1					
TOTAL	4	1	3	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 selectedfor assessment	T ₁	
	T ₂	
Source of technology		
Plot size		
No. of farmers		
Total cost		
Critical input		
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation		

OFT -1

Detailed Information about OFT:

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Chemical weed management in rice
Year/Season:	2023/Kharif

Farming situation:	Rainfed
Problem diagnosis:	Heavy Yield Loss due to Weed Infestation, Labour Problem
Thematic area:	Weed Management
No of trials:	04
No. of farmers involved	04
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:	15.07.2023
Date of harvesting:	15.11.2023
Source of technology:	NIBSM, 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	Plant Protection
Title of on-farm trial:	Assessment of Integrated diseases management of Sheath blight of Rice
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Rice due to Rice Sheath blight
Thematic area:	Precision agriculture
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 not recommended fungicide for the control of disease
T2 –Recommended Practice-	1.Seed treatment with <i>Pseudomonas fluorescens</i> @ of 10g/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:	10.07.2023
Date of harvesting:	20.11.2023
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	Plant Protection
Title of on-farm trial:	Assessment of Integrated diseases management of Sheath rot of Rice
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Rice due to Sheath rot

Thematic area:	Precision agriculture
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 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:	10.07.2023
Date of harvesting:	20.11.2023
Source of technology:	IGKV,Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of High yielding variety of Soybean
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Use of low yielding variety
Thematic area:	Varietal Assessment
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-	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:	10.07.2023
Date of harvesting:	20.11.2023
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	Plant Protection
Title of on-farm trial:	Assessment of <i>Trichoderma</i> mutant culture for management of Pigeon pea wilt
Year/Season:	2023/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:	04
No. of farmers involved	04
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:	10.07.2023
Date of harvesting:	20.11.2023
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	Plant Protection
Title of on-farm trial:	Assessment of Integrated Disease Management of Sigatoka disease of Banana
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Heavy crop loss due to Sigatoka disease in Banana
Thematic area:	Precision agriculture
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 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:	10.07.2023
Date of harvesting:	20.11.2023
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Banana
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of Integrated disease management in early blight of tomato
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Heavy crop loss due to Blight disease in Tomato.

Thematic area:	Precision agriculture
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-	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:	10.07.2023
Date of harvesting:	20.11.2023
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of chemical weed management in Chickpea
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Heavy Yield Loss due to Weed Infestation, Laboure Problem Major Weed (Medic ago denticulata)
Thematic area:	Weed 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 herbicides, delayed manual weeding due to laboure problem
T2 –Recommended Practice-	Use of Topramezone33.6% SC @20.6g/ha PoE
T3- Recommended Practice-	
Date of sowing:	05.11.2023
Date of harvesting:	10.03.2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of Raised bed planter for line sowing of Chickpea
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated

Problem diagnosis:	Low yield Due to traditional method of sowing because broadcasting and Line sowing causes improper coverage of seed and fertilizer, Drainage or water logging
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 Raised bed planter
T3- Recommended Practice-	
Date of sowing:	05.11.2023
Date of harvesting:	10.03.2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Agri Engineering
Title of on-farm trial:	Assessment of Happy seeder for sowing of wheat
Year/Season:	2023-24/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:	Wheat 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 wheat through happy seeder
T3- Recommended Practice-	
Date of sowing:	15.11.2023
Date of harvesting:	10.03.2024
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	Agri Engineering
Title of on-farm trial:	Assessment of Sugarcane leaf scraper
Year/Season:	2023-24/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 tools
T3- Recommended Practice-	
Date of sowing:	15.11.2023
Date of harvesting:	10.11.2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of sugarcane Onion Intercropping
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Farmers only take sole sugarcane
Thematic area:	Integrated Crop 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-	Sole Sugarcane
T2 –Recommended Practice-	Sugarcane: Onion (1:3) (120cmx60)
T3- Recommended Practice-	
Date of sowing:	15.12.2023
Date of harvesting:	20.03.2024
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	Horticulture
Title of on-farm trial:	Assessment of High yielding variety of Chilli
Year/Season:	2023/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:	15.06.2023
Date of harvesting:	10.03.2024
Source of technology:	IIVR, Varanasi
Characteristics of technology:	
Name of Crop/Enterprises:	Chilli
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of Onion cultivation under upland farming situation during Kharif season
Year/Season:	2023/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:	15.06.2023
Date of harvesting:	10.11.2023
Source of technology:	DOGR, Pune
Characteristics of technology:	
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of High Yielding varieties of Tomato
Year/Season:	2023/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:	15.11.2023
Date of harvesting:	10.03.2024
Source of technology:	IIVR, Varanasi
Characteristics of technology:	
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of value addition of fruits &Vegetables for nutritional security of farm families
Year/Season:	2023/Kharif and Rabi
Farming situation:	Upland Irrigated
Problem diagnosis:	Bulk production of fruits & vegetables like Tomato, potato, Guava, mango, Bael, Aonla, Ambadi during season are not stored for longer period
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-	Drying of Vegetables for home consumption
T2 –Recommended Practice-	Preparation of Sauce, Ketchup, pickles, marmalade ,Jelly & RTS
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Fruits & Vegetables
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Smart Ghuruwa Khad technique
Year/Season:	
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):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Traditional method of Ghuruwa Khad
T2 –Recommended Practice-	Base of Ghuruwa made compact with bricks, gravels etc. divide of pit in two parts in particular size, added Trichoderma for fast decomposition, Final produce mix with different culture (PSB+ Azotobactor) at the time of spreading in the field Collection of manure two time in a year
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	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 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	Integrated crop management	Demonstration on Crop Management Practices in Line Sown Direct Seeded Rice	Seed, Herbicide	Kharif 2023	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-2023	5.00	12	No. of pods/plant, Yield, Net return, B:C ratio
3	Soybean	Precision agriculture	Demonstration of Integrated disease management of Soybean	Trichodermma and fungicide	Kharif-2023	5.00	12	Disease Incidence (%) , yield, B:C ratio
4	Chickpea	Integrated crop management	Demonstration on High Yielding Variety of Chickpea (RVG-204)	Seeds	Rabi-2023-24	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-2023-24	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 (C.G. Amber wheat)	Seeds	Rabi-2023-24	5.00	12	No. of pods/plant, Yield, Net return, B:C ratio
7	Brinjal	Varietal Evaluation	Demonstration of Chhattisgarh Safed baigan-1	Seed	Kharif-2023	1.0	12	Average yield/ha, B:C Ratio
8	Sem	Varietal evaluation	Demonstration of Indira Sem-2	Seed	Kharif - 2023	1.0	12	Average yield/ha, B:C Ratio
9	Colocasia	Varietal evaluation	Demonstration of Indira Arbi-1	Tuber	Rabi - 2023-24	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	48	June to March	500
3	Media coverage	40	June to March	-
4	Training for extension functionaries	04	June and November	100

Details of FLD on Enterprises
Farm Implements
**Field efficiency, labour saving etc.*

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 2023	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
Broad Bed Furrow seed drill.	Soybean	Kharif 2023	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
Broad Bed Furrow seed drill	Chickpea	Rabi 2023-24	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
Seed Cum fertilizer Drill	Wheat	Rabi 2023-24	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

**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
Oyster mushroom	Mushroom	12		Spawn	Income and employment generation / year, B:C Ratio	Income and employment generation / year, B:C Ratio	Income and employment generation / year, B:C Ratio
Sugarcane	Sugarcane	12	5.00	fungicide	No of infected plant/m ² , Yield, Net return, B:C ratio	No of infected plant/m ² , Yield, Net return, B:C ratio	No of infected plant/m ² , Yield, Net return, B:C ratio
Badi cultivation	Fruits & Vegetables	12	1.0	Seed	Average yield/ha, B:C Ratio	Average yield/ha	B:C Ratio

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

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 2023	30	75	No. of pods/plant, Yield, Net return, B:C ratio
2	Pigeon pea	Crop production	Raised Bed Line Sowing	Seed, Trichodermma, PSB, Rhizobium Culture	Kharif 2023	20	50	No. of pods/plant, Yield, Net return, B:C ratio
3	Chickpea	Crop production	BBF,Raised Bed Planting,Line Sowing	Seed, Trichodermma, PSB, Rhizobium Culture	Rabi-2023	40	100	No. of pods/plant, Yield, Net return, B:C ratio
4	Linseed	Crop	Line Sowing	Seed, , PSB,	Rabi-2023	20	50	No. of pods/plant, Yield, Net

		production		Rhizobium Culture				return, B:C ratio
5	Mustard	Crop production	Line Sowing	Seed, , PSB, Rhizobium Culture	Rabi-2023	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	05	October to march	500
2	Farmers Training	15	October to march	100
3	Media coverage	20	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	35	6	41	12	0	12	53
Resource Conservation Technologies	01	01	70	23	93	11	22	33	126
Integrated Farming	04	01	53	22	75	8	9	17	92
Water management	02	01	17	3	20	2	4	6	26
Seed production	04	01	67	20	86	11	22	33	119
Integrated Crop Management	04	01	16	2	18	0	6	6	24
Total	16	6	258	76	333	44	63	107	258
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	3	3	27	6	33	5	4	9	42
Protective cultivation (Green Houses, Shade Net etc.)	2	2	27	7	34	10	7	17	51
Total	5	5	54	13	67	15	11	26	
b) Fruits									
Management of young plants/orchards	02	01	20	25	45	5	10	15	60
Total	02	01	22	30	52	5	15	10	62
c) Ornamental Plants	02	01	18	20	38	5	10	15	53
Total	02	01	22	25	47	5	10	15	62
d) Plantation crops	02	01	25	22	47	7	7	14	61
Total	02	01	18	22	40	5	7	12	52
e) Tuber crops	02	01	20	25	45	5	10	15	60
Total	02	01	10	25	35	12	10	22	57

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									
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	2	66	19	85	21	11	32	117
Integrated Disease Management	2	2	77	33	110	12	20	32	142
Bio-control of pests and diseases	2	2	64	16	80	16	39	55	135
Production of bio control agents and bio pesticides	2	2	60	27	87	18	12	30	117
Total	8	8	267	95	362	67	82	149	
VIII Fisheries									
Integrated fish farming	02	01	55	16	71	16	39	55	126
Total	02	01	55	16	71	16	39	55	126
IX Production of Inputs at site									
Vermi-compost production	04	01	27	6	33	5	4	9	42
Organic manures production	04	01	26	6	32	5	4	9	41
Total	08	02							
X Capacity Building and Group Dynamics									
Leadership development	01	01	64	16	80	16	39	55	135
Group dynamics	2	2	27	6	33	5	4	9	42
Formation and Management of SHGs	02	01	26	6	32	5	4	9	41

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Mobilization of social capital	04	01	27	6	33	5	4	9	42
Entrepreneurial development of farmers/youths	02	01	55	16	71	16	39	55	126
WTO and IPR issues	01	01	27	6	33	5	4	9	42
Total	12	7	226	56	282	52	94	146	
XI Agro-forestry									
Total									
XII Others (Pl. Specify)	05	01	10	22	32	25	22	47	79
Grand Total	111	61							
(B) RURAL YOUTH									
Mushroom Production	08	01	25	26	51	14	10	24	75
Bee-keeping	01	01	22	25	47	27	1	28	75
Seed production	05	01	33	5	38	10	2	12	50
Planting material production	04	01	30	5	35	11	14	25	60
Vermi-culture	06	01	37	10	47	25	14	39	86
Value addition	05	01	22	22	44	15	14	29	73
Sheep and goat rearing	01	01	23	5	28	6	7	13	41
Para extension workers	01	01	35	6	41	8	9	17	58
TOTAL	31	08							
(C) Extension Personnel									
Productivity enhancement in field crops	04	01	10	11	21	15	4	19	40
Integrated Pest Management	02	01	15	5	20	10	4	14	34
Integrated Nutrient management	02	01	22	5	27	17	15	32	59
Protected cultivation technology	02	01	36	9	45	0	1	1	46
Group Dynamics and farmers organization	01	01	5	6	11	7	8	15	26
Capacity building for ICT application									
Livestock feed and fodder production	01	01	38	3	41	5	6	11	52
Production and use of organic inputs	02	01	12	12	24	5	6	11	35
Gender	04	01	15	8	23	6	9	15	38

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
mainstreaming through SHGs									
Any other (Pl. Specify)	05	01	18	2	20	9	8	17	37
TOTAL	24	09							

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	04	01	35	6	41	12	0	12	53
Resource Conservation Technologies	02	01	70	23	93	11	22	33	126
Cropping Systems	02	01	53	22	75	8	9	17	92
Crop Diversification	03	01	17	3	20	2	4	6	26
Integrated Farming	02	01	67	20	86	11	22	33	119
Water management	02	01	16	2	18	0	6	6	24
Seed production	04	01	27	6	33	5	4	9	42
Nursery management	04	01	27	7	34	10	7	17	51
Integrated Crop Management	04	01	20	25	45	5	10	15	60
Fodder production	01	01	22	30	52	5	15	10	62
Production of organic inputs	02	01	18	20	38	5	10	15	53
Total	30	11							
II Horticulture									
a) Vegetable Crops									
Nursery raising	02	01	18	22	40	5	7	12	52
Export potential vegetables	01	01	20	25	45	5	10	15	60
Protective cultivation (Green Houses, Shade Net etc.)	02	01	10	25	35	12	10	22	57
b) Fruits	05	01	17	3	20	0	2	2	22
Cultivation of Fruit	01	01	16	9	25	2	1	3	28
Management of young plants/orchards	02	01	16	9	25	2	1	3	28
Export potential of ornamental plants	02	01	48	3	51	2	2	4	55
Propagation techniques of Ornamental Plants	02	01	31	2	33	18	1	19	52
d) Plantation crops	02	01	16	9	25	2	1	3	28
e) Tuber crops	01	01	16	9	25	2	1	3	28
f) Spices	01	01	16	9	25	2	1	3	28
g) Medicinal and Aromatic Plants	04	01	10	25	35	12	10	22	57

III Soil Health and Fertility Management									
Soil fertility management	01	01	25	26	51	14	10	24	75
Soil and Water Conservation	01	01	22	25	47	27	1	28	75
Integrated Nutrient Management	01	01	33	5	38	10	2	12	50
Production and use of organic inputs	01	01	30	5	35	11	14	25	60
Management of Problematic soils	01	01	37	10	47	25	14	39	86
Micro nutrient deficiency in crops	01	01	22	22	44	15	14	29	73
Nutrient Use Efficiency	01	01	23	5	28	6	7	13	0
Soil and Water Testing	02	01	37	10	47	25	14	39	41
IV Livestock Production and Management									
Dairy Management	01	01	15	5	20	10	4	14	86
Poultry Management	01	01	22	5	27	17	15	32	34
Disease Management	01	01	36	9	45	0	1	1	59
Feed management	01	01	38	3	41	5	6	11	46
Production of quality animal products	01	01	12	12	24	5	6	11	52
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.	10	10	35	6	41	8	9	17	

Engineering									
VII Plant Protection									
Integrated Pest Management	02	01	64	16	80	16	39	55	135
Integrated Disease Management	02	01	27	6	33	5	4	9	42
Bio-control of pests and diseases	02	01	26	6	32	5	4	9	41
Production of bio control agents and bio pesticides	02	01	27	6	33	5	4	9	42
VIII Fisheries	02	01	26	6	32	5	4	9	41
IX Production of Inputs at site									
X Capacity Building and Group Dynamics									
Leadership development									
Group dynamics									
Formation and Management of SHGs	04	01	25	26	51	14	10	24	75
Mobilization of social capital	01	01	22	25	47	27	1	28	75
Entrepreneurial development of farmers/youths	01	01	33	5	38	10	2	12	50
WTO and IPR issues									0
XI Agro-forestry									0
XII Others (Pl. Specify)	05	01	37	10	47	25	14	39	86
TOTAL	31	19							
(B) RURAL YOUTH									
Production of organic inputs	04	01	22	22	44	15	14	29	73
Sheep and goat rearing	01	01	23	5	28	6	7	13	41
TOTAL	05	02							
(C) Extension Personnel	02	01	35	6	41	8	9	17	58
TOTAL	02	01							

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 2023	FW	Commercial fruit production	01							
Jan to Dec 2023	FW	Integrated farming	01							
June 2023 and Oct 2023	FW	Seed production	01							
June 2023 and Oct 2023	FW	Production of organic inputs	01							
Jan to Dec 2023	FW	Planting material production	01							
Jan to Dec 2023	FW	Vermi culture	01							
Horticulture										
June 2023	FW	Nursery Management	01							
Jan to Dec 2023	FW	pruning of orchards	01							
Oct 2023	FW	Protected cultivation of vegetable crops	01							
June 2023 and Oct 2023	FW	Commercial fruit production	01							
Oct to Feb 2023	FW	Mushroom Production	01							
June 2023 and Oct 2023	FW	Raaring of beekiping	01							
Livestock production										
Home Science										
Plant Protection										
July 2023	FW	Integrated disease management of Rice	01							
Sep 2023	FW	Integrated disease management of Paigeonpea	01							
Sep 2023	FW	Integrated disease	01							

[illegible]

2. Off Campus

[illegible]

Horticulture

Livestock

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										
Home Science										
Plant Protection										
July 2023	FW	Integrated disease management of Rice	01							
Sep 2023	FW	Integrated disease management of Paigeonpea	01							
Sep 2023	FW	Integrated disease management of Soybean	01							
Jan 2023 and Dec 2023	FW	Integrated disease management of Sugarcane	01							
Oct to Feb 2023	FW	Integrated disease management of Chickpea	01							
Oct to Feb 2023	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										
Jan to Dec 2023	RY	Commercial fruit production	01							
Jan to Dec 2023	RY	Integrated farming	01							
Nov 2023	RY	Seed production	01							
June 2023	RY	Production of organic	01							

[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										
Aug 2023	IS	Crop Production	1							
Aug 2023	IS	Pest Management in Cereal crop	1							
July 2023	IS	Insect and pest management of Soybean, Linseed and Mustard	1							
Horticulture										
Jan to Dec 2023	IS	Gender mainstreaming through SHGs	1							
Jan to Dec 2023	IS	Formation and Management of SHGs	1							
Jan to Dec 2023	IS	Women and Child care	1							
Jan to Dec 2023	IS	Low cost and nutrient efficient diet designing	1							
Livestock production										
Jan to Dec 2023	IS	Management in farm animals	1							
Jan to Dec 2023	IS	Livestock feed and fodder production	1							
			1							
Home Science										
Plant Protection										
Jan to Dec 2023	IS	Disease and insect management of Chickpea, Pigeon pea and Urd Moong	2							
Jan to Dec 2023	IS	Disease management of Rice , Wheat and Sugarcane	2							
Dec 2023	IS	Disease and insect management	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	
		of Tomato,Brinjal ,Chill i and Califlower								
Agriculture Extension (Capacity Building and Group Dynamics)										
July 2023	IS	Group Dynamics and farmers organization	1							
Jan to Dec 2023	IS	Aware of Crop Doctor Apps and its Uses	1							
Soil Science										
Jan to Dec 2023	IS	Fodder & Vermi Compost Production Technology under NGGB Scheme on	1							
Jan to Dec 2023	IS	Care and maintenance of farm machinery and implements	1							

iii) Sponsored Training Programmes

S. No .	Title	Thematic area	Sub Theme	Durati on n	Clien t PF/ RY/ EF	No. of course s	No. of participants							Spon sor ing age n cy
							Male		Female		Total			
							Othe r	SC/S T	Othe r	SC/S T	Othe r	SC/S T	Tota l	
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								

[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	10									
Kisan Mela	02									
Kisan Ghosthi	15									
Exhibition	04									
Film Show	70									
Method Demonstrations	17									
Farmers Seminar	04									
Workshop	12									
Group meetings	12									
Lectures delivered as resource persons	05									
Newspaper coverage	70									
Radio talks	05									
TV talks	06									
Popular articles	5									
Extension Literature	05									
Advisory Services	40									
Scientific visit to farmers field	70									
Farmers visit to KVK	85									
Diagnostic visits	35	350			35					
Exposure visits	07									
Ex-trainees Sammelan	10									
Soil health Camp	02									
Animal Health Camp	02									
Agri mobile clinic	40									
Soil test campaigns	03									
Farm Science Club Conveners meet	03									
Self Help Group Conveners meetings	05									
Mahila Mandals Conveners meetings	05									
Celebration of important days (specify)	15	850			50					
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
	Pigeonpea	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
		Himsagar	200
		Amrapali	500
		Dilpasand	100
		Alphanso	2000
	Guava (air layering)	Allahabad safeda	5000
		Lalit	500
	Custard apple (Grafted)	Balanagar	2000
		Arka sahan	100
	Papaya	Pusa Nanha	1000
SPICES			
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS	lemongrass	-	25000
PLANTATION CROPS	Lemon (air layering)	PDKV lime	3000
		Vikram	2000
		Premalini	500
		Kagzi	1000
	Drumstick	PKM-1	2000
Others (specify)			

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			2000
2	Rhizobium			
3				
BIOFERTILIZERS				
1	Vermicompost			5000
2	NADEP			1000
3				
BIO PESTICIDES				
1	Dasparni arkl			800
2	Pesticides			1000
	Jivamrit			1000
	Ghanjivamrit			1000

3	Bijamrit			1000
	Nimastra			1000
	Agni astra			1000
	Bramhastra			1000
	Sonthastra			1000
	Fungicide			1000
	Sapta Dhanyankur arka			1000

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Sahiwal		3	
SHEEP AND GOAT				
POULTRY	Kadaknath		24000	
FISHERIES	Fish			500
Others (Specify) Duckery	Duck		1000	
Quail Farming	Quail		1000	

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
01.01.2023	January – March 2023	1000
01.04.2023	April – June 2023	1000
01.07.2023	July- September 2023	1000
01.01.2024	October – December 2023	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 -2023)	02
3	DVD	Field Day	04
4	DVD	Kisan Mela/Sangosthi	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	Seasonal cultivation and value addition of Vegetable, Fruits, Spices to full fill the family needs
2	Rural Youth	Millet 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)	Activities planned
1	Budhwara	S.Lohara	30	OFT,FLD,CFLDs
2	Khapri	S.Lohara	20	CFLDs, Training
3	Kosmanda	S.Lohara	50	CFLDs, Training
4	Bandhatola	S.Lohara	30	OFT,FLD,CFLDs
5	Manikpur	Bodala	22	OFT,FLD,CFLDs

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 equipments 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 with in 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	10600	20	-
Water Samples				
Total	1500	10600	20	-

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

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 (2023-24)

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Kharif 2023	Pigeon pea	15.00
Rabi 2023-24	Chickpea	60.00

Name of Flagship programmes: Natural Farming (2023-24)

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 2023	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 arobic-1	High Yielding Variety	25
Chickpea	Rabi 2023-24	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 2023-24	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 2023-24	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 2023-24	INDIRA MUTTER-1	Powdery Mildew Resistant	25
LATHYRUS	Rabi 2023-24	MAHATEORA	Powdery Mildew Resistant	25
		PRATIK	Downey Mildew Resistant	25
LINSEED	Rabi 2023-24	RLC-143	Dwarf Variety	25
		RLC-133	Alternaria Blight Resistant	25
GREENGRAM	Rabi 2023-24	Paity Moong	Yellow Mosaic Resistant	25
BLACKGRAM	Rabi 2023-24	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	2000/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	24000/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: 2023-24

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone/Contact		
	Office	Mobile	Email
Dr.Birbal sahu	7999785007	7999785007	kvk.kondagaon@igkv.ac.in

1.2 StaffPositionon(31thDec.2022)

[illegible]

1.3 Total land with KVK (in ha): 10 Ha.

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 ((Stony Area not Suitable for Cultivation))	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	1095.6 (hr)	Good condition
Motor Cycle 2	0	0	0	0
Bolero(Jeep)	2020	800000	79101.00	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

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

KVK Name	Date of SAC meeting 2022	No. of SAC members (only) attended	Major action points*
Kondagaon	29.7.2022	10	Encourage Minor millets, IFS model, crop rotation

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
4		
5		
6		

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

S. No.	Agro-climatic Zone -Bastar Plateau	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 needed

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 %
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	Alluvial	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, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	08	27.6	11.8
Feb, 22	07	30.7	14.8
Mar, 22	17	34.7	18.8
Apr, 22	38	37.4	22.4
May, 22	34	38.8	24.7
Jun, 22	227	33.9	23.8
July, 2022	327	28.7	22.1
Aug., 2022	355	28.3	22.0
Sept., 2022	224	29.5	21.8
Oct. 2022	67	29.9	19.3
Nov. 2022	11	28.2	14.6
Dec. 2022	08	26.8	11.3

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous	340006	14280 MT.	84 kg
Buffalo	29612	3731.11 MT.	252 Kg
Sheep			
Crossbred/ Indigenous	4623	1.533 MT wool	0.331 Kg
Goats	90235	1398.64 MT	31 Kg
Pigs Crossbred/ Indigenous	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 (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Baderajpur	Baderajpur	Pitispal	Maize	Low yield	• Imbalnce use of fertilizer • Infestastion of fallarmy worm • Fluctuation of market price
				Animal (Cattle, Goat ,Poultry & Pig)	Poor growth Poor Yield	• Lack of Nutrition • Lack of fodder • Poor housing • Vaccination • Lack of improved breed • Infertility
2	Mardapal	Kondagaon	Golavand	Rice	Low yield	• Imbalance use of fertilizer • Infestation of stem borer, gall midge, BPH, blast • Infestation of weeds
				Animal (Cattle, Goat ,Poultry & Pig)	Poor growth Poor Yield	• Lack of Nutrition • Lack of fodder • Poor housing • Vaccination • Lack of improved breed • Infertility
3			Pipera	Sunflower	Low yield	• Imbalnce use of fertilizer • Non availability of improved variety seed at local level • Non availability of regulated market

4	Makdi	Makdi	Sodsivni	Black gram	Low yield	• Imbalnce use of fertilizer • Infestastion of pest and diseases • Infestation of weeds
				Chickpea	Low yield	• Incidence of wilt,podborer • Infestation of weeds • Lack of suitable implement for line sowing

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.

TECHNICALPROGRAMME

A. activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
11	55	06	60

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
02	60	17	350

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

B B. Abstract of interventions 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	Crop diversification	Finger Millet (Ragi)	Poor crop Yield, imbalance nutrient management, minimum use of organic nutrients, Low yield effect	Assessment of Natural Farming on Productivity of Finger Millet					

			d due to poor soil fertility .						
2	Crop diversification	Kodo Millet	Poor crop Yield, imbalance nutrient management, minimum use of organic nutrients, Low yield effected due to poor soil fertility .	Assessment of Natural Farming on Productivity of Kodo Millet					
3	Improved Health Care & Management Practices	Livestock Production Management	Lack of green in Rabi and Jayad to the animal	Assessment performance of milk yield on feeding of Maize silage to lactating cattle.	Demonstration of rearing Kadaknath as a profitable farming over traditional backyard poultry	Poultry Production & Management (Kadaknath)	Poultry Production & Management (Kadaknath)	2	Poultry,Feed,Medicine

					farming.				
4	Breed Improve ment	Livesto ck Produc tion Manag ement	High mortal ity & surviv ability	Assessment of rearing Guinea fowl as a backyard poultry and popularize over traditional backyard poultry farming.	Demons tration of rearing Quail in a deep litter system to provide quick supple mental income and protein over traditio nal backyar d poultry farming .	Quail Production & Management		2	Quail,Feed, Medicine
5	Improv ed Health Care & Manag ement Practic es	Livesto ck Produc tion Manag ement	Poor growth ,high mortali ty	Assessment of turmeric as growth promoter in poultry diet.					
6	Improv ed Health	Livesto ck Produc tion	High cost of poultry feed	Assessment of supplementary Azolla feeding in Kadaknath poultry diet.					

	Care & Management Practices	Management							
7	Improved Health Care & Management Practices	Livestock Production Management	Farmer s have kachch a floor	Assessment of wooden /Bamboo floor shed for goat.					
8	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.	2	Fish Seed
9	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.	2	Fish Seed, Duckling
10	Aquaculture & Fisheries	Fisheries	A rural subsistence (extensive, low	Assessment of Genetically Improved Farmed Tilapia (GIFT) / Monosex sp. (<i>Oreochromis niloticus</i>) in Pond Culture System.	Demonstration of Composite Fish Culture	Composite Fish Culture	Composite Fish Culture	2	Fish Seed

			input practic es)		in Tanks.				
1 1	Aquacu lture & Fisheri es	Fisherie s	Low potenti ality of ponds due to low value fishes.	Assessment of Poly culture of Carps & Prawn in pond culture System.					

Technologies assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal assessment	02	0	0	0	0	0	0	0	01	02
TOTAL	02	0	0	0	0	0	0	0	01	02

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Livestock/Poultry Production & Management	01	03	00	01	00	00	00	05
Fish Production Management	00	00	00	00	00	00	04	04
TOTAL	01	03	00	01	00	00	04	09

Details of On Farm Trial (OFT)

OFT-1

Crop/Enterprise	Finger Millet (Ragi)
Title of on farm trial	Assessment of Natural Farming on productivity of Finger Millet.
Problem diagnosed	Poor crop Yield, imbalance nutrient management, minimum use of organic nutrients, Low yield

	effected due to poor soil fertility.	
Farmers' Practices	Using FYM & Broadcasting sowing methods.	
Details of technologies selected for assessment	T ₁	T1 – Traditional Practice– Farming with Organic Farming Practices
	T ₂	T2 – Farming with Natural Farming Practices -Line Sowing, Using Natural Farming Componets i.e. Beejamrit + Ghanjivamrit @ 25 Kg/ha + Jeevamrit @ 500 L/ha, Twice irigation in a month + Mulch of previous crop @ 5 Ton/ha.
Source of technology	Prakritik Kheti : Adhunik Krishi me Navachar, RVSKVV, Gwalior (MP) 2022	
Plot size	0.4	
No. of farmers	05	
Total cost	15000	
Critical input	Seed, different ingredients used in natural farming (Besan, Jaggery etc)	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Numbers of Tillers / Sq.M., Yield , B: C Ratio	

OFT-2

1	Enterprise	Kodo Millet
2	Title of on-farm trial	Assessment of Natural Farming on productivity of Kodo Millet.
3	Problem diagnosed	Poor crop Yield, imbalance nutrient management, minimum use of organic nutrients, Low yield effected due to poor soil fertility.
4	Farming situation	Irrigated
5	Production system and thematic area	Natural Farming
6	Farmers' practices	Using FYM & Broadcasting sowing methods.
7	Details of technologies selected for assessment/refinement Treatments	T1 – Traditional Practice T2 – Farming with Natural Farming Practices -Line Sowing, Using Natural Farming Componets i.e. Beejamrit + Ghanjivamrit @ 25 Kg/ha + Jeevamrit @ 500 L/ha, Twice irigation in a month + Mulch of previous crop @ 5 Ton/ha.
8	Source of technology	Prakritik Kheti : Adhunik Krishi me Navachar, RVSKVV, Gwalior (MP) 2022
9	No. of animals	0.4
10	No. of farmers	05
11	Critical input	Seed, different ingredients used in natural farming (Besan, Jaggery etc)
12	Cost of input	3000
13	Total cost	15000

14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Numbers of Tillers / Sq.M., Yield , B: C Ratio

Detailed Information about OFT:

OFT-03

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 performance of milk yield on feeding of Maize silage to lactating cattle.
Year/Season:	2023
Farming situation:	-
Problem diagnosis:	Lack of green in rabi and Jayad to the animal
Thematic area:	Livestock Production Management, fodder 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-	T1- Traditional rearing with out silage
T2 –Recommended Practice-	T2- Providing Maize silage
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NDRI, Karnal
Characteristics of technology:	Silage production
Name of Crop/Enterprises:	Fodder Preservation
Recommendations for Farmers	Maize Silage Regular incorporate in Dairy animals diet
Recommendations for Deptt. Personnel	Promote Silage production
Feedback	-

OFT-04

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 rearing Guinea fowl as a backyard poultry and popularize over traditional backyard poultry farming.
Year/Season:	2023
Farming situation:	-
Problem diagnosis:	High mortality & survivability
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 in intensive system
T3- Recommended Practice-	Rearing Guinea fowl in semi intensive system
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-05

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 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-06

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 supplementary Azolla feeding in Kadaknath poultry diet.
Year/Season:	2023
Farming situation:	-
Problem diagnosis:	High cost of poultry feed

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 in backyard
T2 –Recommended Practice-	T2- feeding of Azolla to kadaknath bird
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 07

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 wooden/Bamboo floor shed for goat	
Year/Season:	2023	
Farming situation:	-	
Problem diagnosis:	Stress due to wet floor, parasitic load due to improper housing managemnet	
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-08

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 High Value Fish Production in Biofloc Technology (BFT)	
Year/Season:	2023-24	
Farming situation:	Irrigated	
Problem diagnosis:	Pond based system fish culture prevalent in the area.	
Thematic area:	Fish Production and 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. <i>Clarias</i> 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-09

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 Pangas Cultivation with Better Management Practices
Year/Season:	2023-24
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:	
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-10

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:	(BMPs).Assessment of Genetically Improved Farmed Tilapia (GIFT) / Monosex <i>sp.</i> (<i>Oreochromis niloticus</i>) in Pond Culture System.
Year/Season:	2023-24
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-11

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 Poly culture of Carps & Prawn in pond culture System.
Year/Season:	2023-24
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	-

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)

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								
2								
3	Poultry(Kadaknath)	Poultry production & Management	Demonstration of rearing Kadaknath as a profitable farming over traditional backyard poultry farming.	Chicks, Feed,vaccine and multivitamins	2024	-	10	Survivability, Net Profit, BC Ratio
4	Fish (<i>Clarias batrachus</i>)	Fish Production Management	Demonstration of Air Breathing Fish (<i>Clarias batrachus</i>) culture.	Fish seed of <i>Clarias batrachus</i>	2024	2.0	10	ABW, Yield, B:C ratio
	Integration of Fish and Duck	Fish Production Management	Demonstration of Fish cum Duck Culture.	Fish seed of Indian Major Carps and ducklings	2024	5.0	10	Yield of fish & duck (Egg & meat), B: C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	Jan-Feb	90
2	Farmers Training	08	Sep,Dec	170

3	Media coverage	04	Dec	-
4	Training for extension functionaries	1	Dec	20

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
Poultry	Kadaknath	10	200	Chicks,Feed, vaccine and multivitamins	Survivability, Net Profit, BC Ratio		
Poultry	Quail	10	200	Chicks, feed , and multivitamins	Survivability, 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 Ha.	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>)	10	02	Fish seed of <i>Clarias batrachus</i>	ABW, Yield, B:C ratio		
Demonstration of Fish cum Duck Culture.	Integration of Fish and Duck	10	05	Fish seed of Indian Major Carps and ducklings	Yield of fish & duck (Egg & meat), B: C ratio		
Demonstration of Composite Fish	Fish (Indian Major Carps)	10	05	Fish seed on Indian Major	ABW, Yield, B:C ratio		

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
crops									
Nutrient Use Efficiency									
Soil and Water Testing									
Total	10	5	90	15	105	110	25	145	240
IV Livestock Production and Management									
Dairy Management	1	1	10	0	10	20	0	20	30
Poultry Management	2	1	10	0	10	30	0	30	40
Disease Management	1	1	10	0	10	20	0	20	30
Feed management									
Production of quality animal products									
Total	4	3	30	0	30	70	0	70	100
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	10	0	10	20		20	30
Integrated Disease Management	1	1	10	0	10	20		20	30
Bio-control of pests and diseases	1	1	10	0	10	20		20	30
Production of bio control	1	1	10	0	10	20		20	30

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST			Grand Total	
			Male	Female	Total	Male	Female	Total		
agents and bio pesticides										
Total	4	4	40	0	40	80		80	120	
VIII Fisheries										
Integrated fish farming	1	1	10	0	10	20		0	30	20
Total	1	1	10	0	10	20		0	30	20
IX Production of Inputs at site										
Vermi-compost production	1	1	10	0	10	20	0	20	30	
Organic manures production	1	1	10	0	10	20	0	20	30	
Total	2	2	20	0	20	40	0	40	60	
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital	1	1	5	5	10	5	5	10	20	
Entrepreneurial 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	

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others				SC/ST			
			Male	Female		Total	Male	Female		Total
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
Production and use of organic inputs	2	1	10	0		10	30	10		40
Gender mainstreaming through SHGs										
Any other (Pl. Specify)										
TOTAL	9	5	45	0		45	135	45		180

C) OFFCampus

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	0	0	0	20	5	25	25
Resource Conservation Technologies									
Cropping Systems	4	1	40	5	45	30	5	35	80
Crop Diversification	1	1	0	0	0	20	5	25	25
Integrated Farming	2	1	10	0	10	20	10	30	40
Water management	2	1	10	0	10	20	10	30	40
Seed production									
Nursery management	1	1	0	0	0	20	5	25	25
Integrated Crop Management	2	1	10	0	10	20	10	30	40
Fodder production	2	1	10	0	10	20	10	30	40
Production of organic inputs									
Total	15	8	80	5	85	170	60		
II Horticulture									
a) Vegetable Crops									
Nursery raising	2	1	10	0	10	20	10	30	40
Export potential vegetables									
Protective cultivation									

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 & Farmwomen

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										
		Dalhan Utpadan ki Unnat Taknik	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										
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)										
Soil Science										
Fisheries		Pond management for fish culture	1	15	0	15	10	5	15	30
		Water parameters and their management for fish culture		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										
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)										
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

[illegible]

Vocational Training Programme for Rural Youth:

[illegible]

Training Programme for Extension Functionaries:

[illegible]

iii) Sponsored Training Programmes

S. No.	Title	Thematic area	Duration <i>n</i>	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	6	45	5	50	03	01	04	48	6	54
Kisan Mela	2	200	50	250	10	4	14	210	64	274
Kisan Ghosthi	8	45	5	50	03	01	04	48	6	54
Exhibition	3	45	5	50	03	01	04	48	6	54
Film Show	12	45	5	50	03	01	04	48	6	54
Method Demonstrations	10	8	2	10	0	0	0	8	2	10
Farmers Seminar	12	20	10	30	5	0	5	25	10	35
Workshop	12	15	10	25	15	5	20	30	15	45
Group meetings	08	45	5	50	03	01	04	48	6	54
Lectures delivered as resource persons	10									
Newspaper coverage	36	0	0	0	0	0	0	0	0	Mass
Radio talks	04	0	0	0	0	0	0	0	0	Mass
TV talks	03	0	0	0	0	0	0	0	0	Mass
Popular articles	04	0	0	0	0	0	0	0	0	Mass
Extension Literature	04	0	0	0	0	0	0	0	0	Mass
Advisory Services	05	0	0	0	0	0	0	0	0	Mass
Scientific visit to farmers field	36	30	6	36			30	6	36	36
Farmers visit to KVK	12	600	200	800	20	10	620	620	210	830
Diagnostic visits	24	20	4	24	0	0	0	20	4	24
Exposure visits	2	0	0	0	0	0	0	0	0	2
Ex-trainees Sammelan	2	30	10	40	5	0	5	35	10	45
Soil health Camp	1	0	0	0	0	0	0	0	0	
Animal Health Camp	2	100	0	100	4	0	4	104	0	104
Agri mobile clinic	-	0	0	0	0	0	0	0	0	
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	226	1343	347	1690	74	24	758	1373	1531	1982

Target for Production and supply of Technological products

SEEDMATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Finger Millet	CG Ragi-3	
	Kodo Millet	CG Kodo-3	
	Little Millet	CG SonKutki	
OILSEEDS			
PULSES			
VEGETABLES			
FLOWER CROPS			
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	MANGO	Dasheri	150
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			1200
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			
2	Pesticides			
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY	Quail	Quail	1000	160
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	Pipera	Keshkal	28
2	Aamadih	Baderajpur	38
3	Kosagaon	Kondagaon	15
4	Golavand	Kondagaon	48
5			
6			
7			
8			

1. No. of farm families selected per village : 05
2. No. of survey/PRA to be conducted: 05

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	03	Good
2	Printer	0	Good
3	Projector	01	Good
4	Rotavator	01	Good
5	Cultivator	01	Good
6	MV Plough	01	Good
7			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	0	0	0	0
Water Samples	0	0	0	0
Total				

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

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
July-Nov	CFLD	200/80 Ha
Dec-April	CFLD	150/60Ha

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, Indira Ragi-2		200+200
Kodo	Kharif	Indira Kodo-1, Indira Kodo-2		200+200
Kutki	Kharif	CG Kutki , CG Son kutki		200+200

Details of Demonstration Unit at KVK- Under developing ,proposal Submitted

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production

ANNUAL ACTION PLAN 2023

KVK KORBA

Year of sanction: 2023-24

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.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									
2	Subject Matter Specialist	Dr. S.K. Upadhyay	SMS (I/c PC)	Agronomy	Level 12 (Rs. 95500/-)	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 12 (Rs. 73200/-)	11.09.2012	11.09.2012	9926101046	dt_korba@rediffmail.com	
5	Subject Matter Specialist	Shri Mahipal Singh Urre	SMS	Entomology	Level 12 (Rs. 73200/-)	12.09.2012	31.10.2014	9406001348	ms.urre@yahoo.com	
6	Subject Matter Specialist	Smt. Archana Banjare	SMS	Horticulture	Level 12 (Rs. 73200/-)	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. 44900/-)	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. 35400/-)	31.10.2019	31.12.2019	7999104684	rameshrathore29@gmail.com	
10	Farm Manager	Smt. Anamika Nirala	Farm Manager	Agronomy	Level 8 (Rs. 44900/-)	31.10.2014	12.08.2015	9893334031	anamikasomit@gmail.com	
11	Assistant	-	-	-						
12	Jr. Stenographer / Comp. Operator	-	-	-						
13	Driver	Shri Deonath Yadav	Driver	-	Level 4 (Rs. 25400/-)	30.03.2013	30.03.2013	7987662938		
14	Driver	-	-	-						
15	Supporting staff	Shri Ramayan Kenwat	Peon	-	Level 2 (Rs. 25000/-)	10.10.2008	08.08.2016	8641056712		
16	Supporting staff	Shri Bisahat Dahariya	Peon	-	4750-7440+GP 1300 (Rs.6180 +GP 1300)	26.09.2015	26.09.2015	9993439380		

1.3 Total land with KVK (in ha):12 ha

S. No.	Item	Area (ha)
1	Under Buildings	1.50
2	Under Demonstration Units	1.00
3	Under Crops	3.50
4	Orchard/Agro-forestry	3.30
5	Others (specify) pond	0.40
6	Meteorology	0.20
7	Other crop sugarcane	0.40
8	vegetables	1.00
9	Grassing	0.40
10	Fodder	0.30
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	NA	-	-	-	-	-	-
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 (Power Tiller)	2007	381865.00	3290 hrs.	Need to replace
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	Need to replace
cultivator	2007	12800.00	Running
leveller	2007	8753.00	Running
Rotavetor	2010	73066.00	Maintenance required
Multicrop thresher	2012	--	not working/ Need to replace

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

Sl. No.	Tentative Date
1	April 2023
2	May 2023

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	1. Entisol (Bhata)	Red sandy-gravelly soil, coarse texture	
2	2. Inceptisol (Matasi)	Light yellow or grey in colour	
3	3. Alfisol (Dorsa)	Red loam soil, less water holding capacity	
4	4. Vertisol (Kanhar)	Dark brown to black clour	

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

Area, Production and Productivity of major crops cultivated in the district**Area, Production and Productivity of Major Kharif crops of Korba District**

S. No	Crop	Area (ha)	Production (Qt.)	Productivity (Q /ha)
1				
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) , 2021-22

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) , 2021-22

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	87	23.1	11.2
Feb, 22	38	27.0	9.3
Mar, 22	6	33.8	17.1
Apr, 22	3	39.3	19.0
May, 22	36	38.9	23.9
Jun, 22	147	36.7	25.1
July, 2022	373	30.9	24.0
Aug., 2022	541	30.5	22.8
Sept., 2022	236	30.6	23.68
Oct. 2022	80	30.1	20.3
Nov. 2022	0	28.4	13.6
Dec. 2022	0	27.2	12.6

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	Indigenous 32eggs/ bird/yr Crossbred 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 (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Katghora	Katghora	Ranjana,	Paddy,	• Low yield of major	• Enhancing productivity of maize,

			Amarpur, Rangbel, Jurali, Singhali, Abhaypur, Jawali, Rangbel, Banki, Kungari	Maize Vegetables Pulses	cereals and pulses. • Low seed replacement rate of pulses. • Non descript breed of goat. • Malnutrition in farm families.	paddy, during <i>kharif</i> , oilseeds and pulses during <i>rabi</i> season. • Diversifications of existing cropping systems by promoting cultivation of vegetables and fruit plants such as mango (Langra, Amrapali Dasherri 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	Bhatgoan, Bela, Saraisingar, Kaldamaar, Kolga, Rajadih, Tilkeja, Chakamaar	Paddy, Maize Vegetables Pulses , oilseed crops , fisheries	• 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. • Diversifications 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. • Diversifications 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, Pondi-lafa, Damiya, Sendripali, kapot	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> , wheat and lathyrus during <i>rabi</i> season. • Diversifications of existing cropping systems by promoting cultivation of vegetables and fruit plants such as mango (Langra, Amrapali Dasherri 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	Kapubhara, Sharma (Korbi), Semra, Ranimaar, Pattharphod, Lainga, 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. - Diversifications 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.

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	72	13	132

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
108	3261		

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	-	-	-	-	-	-	-	-	-

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
Pest management	1	1	-	-	-	-	-	-	-	2
Integrated Pest management	1	-	-	-	-	-	-	-	-	1
Natural Farming	1		1	-	-	-	-	-	-	1
Indigenous Technical knowledge	-	-	-	-	1	-	-	-	-	1
Integrated Nutrient management	-	-	-	-	2	-	-	-	-	2
Weed Management	-	-	-	-	1	-	-	-	-	1
Varietal Assessment	1	1	-	-	-	-	-	-	-	2
TOTAL	4	2	1	-	4	-	-	-	-	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
Fish production and Management	-	-	-	-	-	-	2	2
Precision Farming	-	-	-	-	-	-	1	1
TOTAL	-	-	-	-	-	-	3	3

Details of On Farm Trial (OFT)

OFT-1

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	
Source of technology	Journal of Entomology and Zoology study 2019, 7(1), 528-531	
Plot size	0.200 ha	
No. of farmers	05	
Total cost	5000.00	
Critical input	Pymetrozine 50%	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Insects Infestation per hill, Yield, B:C Ratio	

OFT-2

Crop / Enterprise	Maize	
Title of on farm trial	Assessment of IPM Module for Management of Fall Army Worm in Maize	
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 Emamectin benzoate 5SG @ 200gm /ha - Applying chlorantraniliprole 18.5 SC @ 200 ml/ ha.
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	0.200	
No. of farmers	05	
Total cost	600.00	
Critical input	Pheromone trap, Lure, Emamectin benzoate 5SG, chlorantraniliprole 18.5 SC	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	No. of Larva / plant, No. of Damage plant /ha, Yield, B:C Ratio	

OFT -3

1	Enterprise	Rice
2	Title of on-farm trial	Assessment of different natural farming practices in Scented Rice
3	Problem diagnosed	Low yield due to inadequate nutrient management
4	Farming situation	Rainfed
5	Production system and thematic area	Natural farming
6	Farmers' practices	No use of Beejamrit + Ghanjeevamrit + jeevamrit
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : Seed treatment with Beejamrit + Ghanjeevamrit @ 250Kg/ha + Jeevamrit @ 500 lit /ha irrigation twice in a month : T ₂ :
8	Source of technology	IGKV, Raipur
9	No. of animals	
10	No. of farmers	05
11	Critical input	
12	Cost of input	
13	Total cost	2500/-
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	No. of tillers/m ² , Yield(qt./ha), B:C ratio, 1000 grain wt. panicle length (cm)

OFT-4

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	RDF (20:40:20 NPKkg/ha)+ seed treatment with Rhizobium @ 5-10 gm/kg seed+ PSB @5-10gm/kg seed
	T ₂	
Source of technology	IGKV, Raipur	
Plot size	0.200 Ha.	
No. of farmers	05	
Total cost	2500/-	
Critical input	Biofertilizer (Rhizobium & PSB)	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	No. of pods/plant, Yield(qt./ha), B:C ratio,	

OFT -5

1	Crop/Enterprise	Field pea
2	Title of on-farm trial	Assessment of different natural farming practices in Field pea
3	Problem diagnosed	Low yield due to inadequate nutrient management
4	Farming situation	Irrigated
5	Production system and thematic area	Natural Farming
6	Farmers' practices	No use of Beejamrit + Ghanjeevamrit + jeevamrit
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : Seed treatment with Beejamrit + Ghanjeevamrit @ 250Kg/ha + Jeevamrit @ 500 lit /ha irrigation twice in a month : T ₂ :
8	Source of technology	IGKV, Raipur
9	No. of animals	
10	No. of farmers	
11	Critical input	
12	Cost of input	
13	Total cost	2500/-
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	No. of pod/plant, Yield q/ha, & B:C ratio

OFT -6

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 selectedfor assessment		Foliar spray of <i>Metarhizum anisopliae</i> 10 ml/ per li of water In 30 and 45 DAS
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: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Aphid population density/cm ² , yield, B: C ratio	

OFT -7

Crop / Enterprise	Brinjal	
Title of on farm trial	Assessment of Control of shoot and fruit borer through ITK management in brinjal (<i>Solanum melongena</i>)	
Problem diagnosed	High Infestation of Shoot and fruit borer in brinjal	
Farmers' Practices	Indiscriminate use of insecticides	
Details of technologies selectedfor assessment		Tobacco is soaked in water in the ratio of 1:10 overnight
Source of technology	BAU, Kanke, Ranchi (Jharkhand)	
Plot size	0.200	
No. of farmers	05	
Total cost	4000	
Critical input	Tobacco	
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	No. of infestation in shoot/m ² , No. of infested fruit/m ² , Yield	

OFT-08

Crop / Enterprise	FISH	
Title of on farm trial	Assessment of fish Production by introducing Armur common carp in ponds	
Problem diagnosed	Low production of Fish due to traditional culture.	
Farmers' Practices (T1)	Farmers are stocking Catla, Rohu and Mrigal in their ponds	
Details of technologies selectedfor assessment (T2)	T ₂	Stocking of Armur Carp instread of Mrigal
Source of technology	NFDB, Hyderabad. 2016	
Plot size	0.5 ha	
No. of farmers	04	
Total cost	10000/farmer	
Critical input	Armur Carp Fish	
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	Length of fish (cm) , wt. of fish (g), Yield (q / ha)	

OFT-9

Crop / Enterprise	FISH
Title of on farm trial	Assessment in of fish Production Bioflock Technique
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 flock density, pH, & Ammonia
Source of technology	NFDB, Hyderabad. 2017
Plot size	10000 cu m
No. of farmers	04
Total cost	7000/tank.
Critical input	Fish (Pangasis)
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	Length of fish (cm) , wt. of fish (g), Yield (q / tank)

OFT-10

Crop / Enterprise	FISH
Title of on farm trial	Assessment of Pangasis 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 selectedfor assessment	T ₂ Stocking Pangasis in the ponds @ 10000 FI/ha
Source of technology	NFDB, Hyderabad. 2017
Plot size	0.5 ha
No. of farmers	04
Total cost	50000/-
Critical input	Pangasis Fish
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	Length of fish (cm) , wt. of fish (g), Yield (q / tank)

OFT-11

Crop / Enterprise	Okra
Title of on farm trial	Assessment of effect of Biofertilizer on growth & yield of Okra var. Kashi Kranti in acid soil
Problem diagnosed	Farmers get low and poor quality of yield
Farmers' Practices	No seed / soil application
Details of technologies selectedfor assessment	(T2) seed treatment biofertilizer (Azotobacter @ 8-10g /Kg seed) and soil application treatment biofertilizer (Azotobacter @ 5Kg / 100Kg FYM) ((T3)Seed treatment with biofertilizer (PSB@ 8-10g /Kg seed) and soil application treatment biofertilizer (PSB@ 5Kg / 100Kg FYM)
Source of technology	IGKV, Raipur
Plot size	25X25 m2
No. of farmers	5
Total cost	Rs.1000
Critical input	Rs.5000
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation	No. of fruits/ plant, Fruit length(cm), fruit weight (g), yield(q/ha)

OFT-12

Crop / Enterprise	Onion
Title of on farm trial	Assessment of weed management in onion
Problem diagnosed	Farmers get low yield due to heavy infestation of weeds
Farmers' Practices	one Hand weeding
Details of technologies selected for assessment	(T2) Spray of oxyfluorfen @ 0.25 kg/ ha as PE along with one hand weeding at 45 DAT with full package of practices (T3) Spray pendimethalin @1.5 kg ha-1 as PE + one hand weeding at 45 DAT with full package of practices
Source of technology	IGKV, Raipur
Plot size	50x100 m ²
No. of farmers	5
Total cost	Rs.2000
Critical input	Rs.10000
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation	Wt of bulb, weed density (no.m ²) , Weed Index (%), Yield q/ha , B:C ratio

OFT-13

Crop / Enterprise	Cauliflower
Title of on farm trial	Assessment of integrated nutrient management in cauliflower to increase the productivity
Problem diagnosed	Farmers get low yield due to imbalance use of fertilizer
Farmers' Practices	No seedling treatment
Details of technologies selected for assessment	(T2) 75% RDF (120:80:40 Kg/ha) following with root dip of seedling in azotobacter solution @ 1% for 15 min (T3) 75% RDF(120:80:40 Kg/ha following with root dip of seedling in azotobacter solution + PSB @ 1% for 15 min
Source of technology	IGKV, Raipur
Plot size	50x100 m ²
No. of farmers	5
Total cost	Rs.2000
Critical input	Rs.10000
Performance indicators: (xxxi) Technical- yield (q/ ha) (xxxii) Economic (xxxiii) Social – Employment generation	Wt. of curd , size of curd, Yield q/ha , B:C ratio

OFT-14

Crop / Enterprise	Finger Millets
Title of on farm trial	Assessment of High yielding nutrition rich variety of finger millet
Problem diagnosed	Low productivity due to old variety.
Farmers' Practices	Cultivation of old variety
Details of technologies selected for assessment	(T2) Use of HYV Indira Ragi-1
Source of technology	IGKV, Raipur
Plot size	0.5 ha
No. of farmers	5
Total cost	Rs.2000
Critical input	Rs.10000
Performance indicators: (xxxiv) Technical- yield (q/ ha) (xxxv) Economic (xxxvi) Social – Employment generation	No. of tillers/plant, Yield (q/ha) and B:C Ratio

OFT-15

Crop / Enterprise	Linseed
Title of on farm trial	Assessment of HYV of Linseed
Problem diagnosed	Low productivity due to cultivation of old variety
Farmers' Practices	Use of Local variety
Details of technologies selected for assessment	(T2) HYV of Linseed var . RLC-143 (Maturity- 115-120 days, Resistant to blight, yield- 6.0 q/ha) (T3) HYV of linseed var. RLC-153 (Maturity- 118-120 days, Resistant to powdery mildew & Bud fly , yield- 5-6.0 q/ha and oil percentage -34.8 %)
Source of technology	IGKV, Raipur
Plot size	0.5 ha
No. of farmers	5
Total cost	Rs.2000
Critical input	Rs.10000
Performance indicators: (xxxvii) Technical- yield (q/ ha) (xxxviii) Economic (xxxix) Social – Employment generation	No. of seed /capsule, No. of capsule/ plant, Test weight (g) Yield (q/ha) and B:C Ratio

Detailed Information about OFT: 01

Name of Discipline	Entomology
Title of on-farm trial:	Assessment of Chemical insecticide against Brown Plant Hopper in Rice.
Year/Season:	Kharif 2023
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, 2023
Date of harvesting:	Nov. 2023
Source of technology:	OUAT, Bhuneshwar, Orissa
Characteristics of technology:	
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 02

Name of Discipline	Entomology
Title of on-farm trial:	Assessment of IPM Module for Management of Fall Army Worm in Maize
Year/Season:	Kharif 2023
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 Emmamectin banzoate 5SG@ 200gm /ha • Applying chlorantraniliprole 18. 5 SC @200 ml/ ha.
T3- Recommended Practice-	
Date of sowing:	July 2023
Date of harvesting:	Oct.2023
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 03

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of different natural farming practices in Scented Rice
Year/Season:	2023/ 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: Assessment	

T1 – Farmers Practice-	No use of Beejamrit + Ghanjeevamrit + jeevamrit
T2 –Recommended Practice-	Seed treatment with Beejamrit + Ghanjeevamrit @ 250Kg/ha + Jeevamrit @ 500 lit /ha irrigation twice in a month
T3- Recommended Practice-	
Date of sowing:	June-July
Date of harvesting:	October
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: 04

Name of Discipline	Soil Science
Title of on-farm trial:	Assessment of use of biofertilizer to increase the productivity of Black gram
Year/Season:	2023/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Imbalance Fertilizer Application
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: Assessment	
T1 – Farmers Practice-	Imbalance Fertilizer Application
T2 –Recommended Practice-	RDF (20:40:20 NPKkg/ha)+ seed treatment with Rhizobium @ 5-10 gm/kg seed+ PSB @5-10gm/kg seed
T3- Recommended Practice-	
Date of sowing:	June-July
Date of harvesting:	September
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Blackgram
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 05

Name of Discipline	Entomology
Title of on-farm trial:	Assessment of Bio- insecticide against Mustard Aphids
Year/Season:	Rabi 2023
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: Assessment	
T1 – Farmers Practice-	
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.2023
Date of harvesting:	Feb. 2024
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 06

Name of Discipline	Entomology
Title of on-farm trial:	Assessment of Control of shoot and fruit borer through ITK management in brinjal (<i>Solanum melongena</i>)
Year/Season:	Rabi 2023
Farming situation:	Irrigated
Problem diagnosis:	High Infestation of Shoot and fruit borer in brinjal
Thematic area:	ITK
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 insecticides
T2 –Recommended Practice-	Tobacco is soaked in water in the ratio of 1:10 overnight
T3- Recommended Practice-	
Date of sowing:	Oct. 2023
Date of harvesting:	feb. 2023
Source of technology:	BAU, Kanke, Ranchi (Jharkhand)
Characteristics of technology:	
Name of Crop/Enterprises:	Brinjal
Recommendations for Farmers	
Recommendations for Deptt. Personnel	

Feedback	

Detailed Information about OFT: 07

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of fish Production by introducing Armur common carp in ponds
Year/Season:	2023-24 Kharif and Rabi
Farming situation:	Rainfed
Problem diagnosis:	Low production of Fish due to traditional culture.
Thematic area:	Fish 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-	Farmers are stocking Catla, Rohu and Mrigal in their ponds
T2 –Recommended Practice-	(T ₂)- Stocking of Armur Carp instread of Mrigal
Date of sowing:	
Date of harvesting:	
Source of technology:	NFDB, Hyderabad. 2016
Characteristics of technology:	Armur Carp grows 1.5-2 kg/ha thus is more beneficial to farmers
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	Recommended to stock Armur Carp instead of mrigal as its growth is too good.
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 08

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment in of fish Production Bioflock Technique
Year/Season:	2023-24 Kharif and Rabi
Farming situation:	Irrigated
Problem diagnosis:	Semi intensive culture of fish by farmers thus getting less production.
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/ refinement:	
T1 – Farmers Practice-	Fish culture in Farmers Pond
T2 –Recommended Practice-	Highly précsised technology with fitting of Aerators, Monitoring of flock density, pH, & Ammonia
Date of sowing:	
Date of harvesting:	
Source of technology:	NFDB, Hyderabad. 2017
Characteristics of technology:	Pangasis fish should be stocked in the tanks of bioflock and tank

	would be regularly monitored for PH and Ammonia generated.
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	Farmers willing to do fish culture who does not have ponds can also culture fish in bioflock tanks.
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 09

Name of Discipline	Fisheries
Title of on-farm trial:	Assessment of Pangasis fish in pond culture system.
Year/Season:	2023-24 Kharif and Rabi
Farming situation:	Rainfed
Problem diagnosis:	Demand of fresh fish is increasing by fish eaters day by day thus to satisfy this demand catfish production is only the solution.
Thematic area:	Fish 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-	Farmers are stocking Catla, Rohu and Mrigal in their ponds
T2 –Recommended Practice-	(T ₂)- Stocking Pangasis in the ponds @ 10000 FI/ha
Date of sowing:	
Date of harvesting:	
Source of technology:	NFDB, Hyderabad. 2017
Characteristics of technology:	Stocking Pangasis in the ponds @ 10000 FI/ha
Name of Crop/Enterprises:	Fish
Recommendations for Farmers	Pangasis is a catfish and able to survive in drastic conditions thus it is good solution for people willing to eat fresh fish.
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 10

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of effect of Biofertilizer on growth & yield of Okra var. Kashi Kranti in acid soil
Year/Season:	2023/ Kharif
Farming situation:	Rainfed
Problem diagnosis:	Farmers get low and poor quality of yield
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-	No seed / soil application

T2 –Recommended Practice-	seed treatment biofertilizer (Azotobacter @ 8-10g /Kg seed) and soil application treatment biofertilizer (Azotobacter @ 5Kg / 100Kg FYM)
T3- Recommended Practice-	Seed treatment with biofertilizer (PSB@ 8-10g /Kg seed) and soil application treatment biofertilizer (PSB@ 5Kg / 100Kg FYM)
Date of sowing:	June-July
Date of harvesting:	Oct-Nov.
Source of technology:	IIVR, Varanashi
Characteristics of technology:	Biofertilizer help to realese fixed fertilizer also reduce the cost of chemical fertilizer and boostup the growth and reduce hazadeous effect of chemical fertilizer .
Name of Crop/Enterprises:	Okra
Recommendations for Farmers	
Recommendations for Deptt. Personnel	

Detailed Information about OFT: 11

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of weed management in onion
Year/Season:	Rabi 2023-24
Farming situation:	Rainfed
Problem diagnosis:	Farmers get low yield 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-	one Hand weeding
T2 –Recommended Practice-	(T ₂) - Spray of oxyfluorfen @ 0.25 kg/ ha as PE along with one hand weeding at 45 DAT with full package of practices (T ₃) - Spray pendimethalin @1.5 kg ha-1 as PE + one hand weeding at 45 DAT with full package of practices
Date of sowing:	Oct-Nov
Date of harvesting:	Jan-Feb
Source of technology:	IGKV, Raipur
Characteristics of technology:	Weedicide helps to minimize labour cost as well as weed problem during vegetative phase
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 12

Name of Discipline	Horticulture
Title of on-farm trial:	Assessment of integrated nutrient management in cauliflower to increase the productivity
Year/Season:	Rabi 2023-24
Farming situation:	Rainfed
Problem diagnosis:	Farmers get low yield due to imbalance use of fertilizer
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-	No seedling treatment
T2 –Recommended Practice-	(T ₂) - 75% RDF (120:80:40 Kg/ha) following with root dip of seedling in azotobacter solution @ 1% for 15 min (T ₃) - 75% RDF(120:80:40 Kg/ha following with root dip of seedling in azotobacter solution + PSB @ 1% for 15 min
Date of sowing:	Oct-Nov
Date of harvesting:	Jan-Feb
Source of technology:	IGKV, Raipur
Characteristics of technology:	Biofertilizer help to release fixed fertilizer also reduce the cost of chemical fertilizer and boostup the growth and reduce hazardous effect of chemical fertilizer .
Name of Crop/Enterprises:	Cauliflower
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 13

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of High yielding nutrition rich variety of finger millet
Year/Season:	Kharif 2023
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-	Cultivation of old variety
T2 –Recommended Practice-	Use of Indira Ragi-1
Date of sowing:	July
Date of harvesting:	November
Source of technology:	IGKV, Raipur

Characteristics of technology:	Finger millet contains about 5–8% protein, 1–2% ether extractives, 65–75% carbohydrates, 15–20% dietary fiber and 2.5–3.5% minerals. Of all the cereals and millets, finger millet has the highest amount of calcium (344mg%) and potassium (408mg%).
Name of Crop/Enterprises:	Finger Millets
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 14

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of HYV of Linseed
Year/Season:	Kharif 2023
Farming situation:	Rainfed
Problem diagnosis:	Low productivity due to cultivation of old variety
Thematic area:	VarietalAssessment
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-	Cultivation of Local Variety
T2 –Recommended Practice-	HYV of Linseed var . RLC-143 (Maturity- 115-120 days, Resistant to blight, yield- 6.0 q/ha)
T3–Recommended Practice-	HYV of linseed var. RLC-153 (Maturity- 118-120 days, Resistant to powdery mildew & Bud fly , yield- 5-6.0 q/ha and oil percentage -34.8 %)
Date of sowing:	July
Date of harvesting:	November
Source of technology:	IGKV, Raipur
Characteristics of technology:	HYV of Linseed var . RLC-143 (Maturity- 115-120 days, Resistant to blight, yield- 6.0 q/ha) and HYV of linseed var. RLC-153 (Maturity- 118-120 days, Resistant to powdery mildew & Bud fly , yield- 5-6.0 q/ha and oil percentage -34.8 %)
Name of Crop/Enterprises:	Linseed
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Detailed Information about OFT: 15

Name of Discipline	Soil Science

Title of on-farm trial:	Assessment of different natural farming practices in Field pea
Year/Season:	Rabi 2023-24
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
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of Beejamrit + Ghanjeevamrit + jeevamrit
T2 –Recommended Practice-	Seed treatment with Beejamrit + Ghanjeevamrit @ 250Kg/ha + Jeevamrit @ 500 lit /ha irrigatiion twice in a month
Date of sowing:	Nov- Dec.
Date of harvesting:	Feb.- March
Source of technology:	IGKV, Raipur
Characteristics of technology:	Beejamrit + Ghanjeevamrit + jeevamrit are having potential of promoting growth and provide immunity in plant system.
Name of Crop/Enterprises:	Nov- Dec.
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 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	Pigeon pea	Nutrient Management	Demonstration of Integrated nutrient management in Pigeon pea	Biofertilizer (BSB+Rhizobium)	Kharif 2023	5.00	13	No. of pods/ plant, yield q/ha
2	Mustard	Nutrient Management	Demonstration of Nutrient management in Mustard	RDF (100:80:40) NPK Kg/ha+ seed treatment with PSB @ 5-10gm/ Kg seed	Rabi 2023-24	5.00	13	No. of Siliqua / plant, No. of seeds /Siliqua, yield (q/ha)
3	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 2023	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
4	Bitter gourd	Varietal evaluation	Demonstration on HYV of Bitter gourd	Brinajl var. Kashi Urvashi	Rabi 2023-24	1 ha	10	No. of fruits /plant, Yield (q/ha)
5	Onion	INM	Demonstration on Integrated Nutrient Management in Onion	Onion var. Bhima Light Red + 75% RDF (NPKS 110: 40:60: 40 Kg/ha) + FYM 15t/ha + Azotobacter (200 ml/ acre) + PSB (200 ml/acre)	Rabi 2023-24	1 ha	10	Wt. of bulb, yield q/ha
6	Mustard	Varietal Demonstration	Demonstration on HYV of Mustard	HYV of Mustard var. CG Sarson	Rabi 2023-24	5 ha	13	No. of Siliqua / plant, No. of seeds /Siliqua, yield (q/ha)
7	Pigeon pea	Varietal Demonstration	Demonstration of HYV of Pigeon pea	HYV of Pigeon pea var. Rajeev Lochan	Kharif 2023	5 ha	13	No. of pods / plants, yield (q/ha), Net returns, BC 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
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
Demonstration on Fish based Integrated Farming System in Korba District	Fish	4	1 ha	Fish	Fish Yield kg/ha Income generated by sale of Eggs/Goats	Fish Yield kg/ha	Fish Yield kg/ha
Demonstration of composite fish farming to increase fish production	Catla Rohu Common Carp	4	1 ha	Catla Rohu Common Carp	Fish Yield kg/ha	Fish Yield kg/ha	Fish Yield kg/ha
Demonstration of use of lime in farmers ponds to increase fish production	Lime according to soil pH	4	1 ha	Lime according to soil pH	Fish Yield kg/ha	Fish Yield kg/ha	Fish Yield kg/ha

*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 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 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		

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

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, Insecticide Fungicide	Kharif 2023	20	50	No. of pods/plant, Height, yield q/ha
2	Black gram	Crop Production	HYV, Line Sowing, Weed Magagement, IPM	Seed, Weedicide, Insecticide Fungicide	Kharif 2023	20	50	No. of pods/plant, yield q/ha
3	Niger	Crop Production	HYV, Line Sowing, IPM	Seed, Insecticide Fungicide	Kharif 2023	20	50	
4	Mustard	Crop Production	HYV, Line Sowing, IPM	Seed, , Insecticide Fungicide	Rabi 2023	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. Jan.	150-200
2	Farmers Training	8	June 2023 to Feb. 2024	220-250
3	Media coverage	2		Mass
4	Training for extension functionaries	1	Dec. 2023	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 Management	1	1							30
Resource Conservation Technologies	1	1							30
Integrated Farming	1	1							30
Water management	2	2							60
Seed production	1	1							30
Integrated Crop Management	1	1							30
Total	7	7							210

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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/orchard s	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	01	1	5	2		7	22	-	29
Soil and Water Conservation	2	2	8	2		10	20	10	40
Integrated Nutrient Management	2	2	25	-		25	110	15	150
Production and use of organic inputs	2	2	20	5		25	100	25	150
Management of Problematic soils	1	1	12	-		12	25	8	45
Micro nutrient deficiency in crops	2	2	10	-		10	40	10	60
Nutrient Use Efficiency	2	2	15	-		15	35	15	65
Soil and Water Testing	1	1	6	-		30	80	45	155
Total	13	13	101	9		134	432	128	694
IV Livestock Production and Management									

[illegible]

[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											
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	70	70									1839

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 organic inputs	1	1							30
Total	11	11							330
II Horticulture									
a) Vegetable Crops									
Nursery raising	2	2							60
Export potential vegetables									
Protective cultivation (Green	2	2							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										
Apr- June	F& FW	Production technologies of cereals , oilseed & pulses of Kharif crops crops	3							90
July- Sept	F& FW	Production technologies of millets	3							90
Oct-Dec	F& FW	Production technologies of cereals ,oilseed & pulses of rabi crops	3							90
Jan- March	F& FW	Round the year fodder cultivation	2							60
Horticulture										
April	F& FW	Summer vegetable crop cultivation	1							30
May	F& FW	Importace of biofertilizer in vegetable	1							30
June	F& FW	Protected cultivation	1							30
July	F& FW, FW & RY	Training to SHGs for doubling income	1							30
Aug	F& FW	Kharif vegetable , Spices & Tubers crops production technology	1							30
Sept	F& FW	Kitchen garden	1							30
Oct	F& FW, RY	Round the year vegetable cultivation technique	1							30
Nov	F& FW	Plant propagation method	1							30

Dec	F& FW	orchard Mangement	1							30
Jan	F& FW, RY	processing & value addition of vegetable & fruit crops	1							30
Feb	F& FW	Disease mangement in vegetable crops	1							30
March	F& FW	Insect Management	1							30
Livestock production	Nil									
Home Science										
Apr- June	F& FW	Training to SHGs for doubling income	1							30
Jan- March	F& FW	processing & value addition of vegetable & fruit crops	1							30
Plant Protection										
Apr- June	Farmers & Farm women	Integrated Pest Management	2							60
July- Sept	Farmers & Farm women	Integrated Disease Management	2							60
Oct-Dec	Farmers & Farm women	Bio-control of pests and diseases	1							30
Jan- March	Farmers & Farm women	Lac Cultivation	2							60
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Apr- June	Farmers & Farm women	Soil fertility management	5							155
July- Sept	Farmers & Farm women	Nutrient Use Efficiency	2							60
Oct-Dec	Farmers & Farm women	Production and use of organic inputs	2							65
Jan- March	Farmers & Farm women	Integrated Nutrient Management	2							65

2. Off Campus

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

Date		programme		Male	Female	Total	Male	Female	Total	
Crop Production										
Apr- June	F& FW	Production technologies of cereals , oilseed & pulses of Kharif crops crops	3							90
July- Sept	F& FW	Weed management, Millets production	3							90
Oct-Dec	F& FW	Production technologies of cereals ,oilseed & pulses of rabi crops	3							90
Jan- March	F& FW	Round the year fodder cultivation	3							90
Horticulture										
Apr- June	F& FW	Diseases management in vegetable crops	3							90
July- Sept	F& FW	Round the year vegetable cultivation technique	3							90
Oct-Dec	F& FW	Integrated pest management in vegetable crops	3							90
Jan- March	F& FW	processing & value addition of vegetable & fruit crops	3							90
Livestock production	Nil									
Home Science										
July- Sept	F& FW	Kitchen Garden	1							30
Oct-Dec	F& FW	Round the year vegetable cultivation technique	1							30
Plant Protection										
Apr- June	F& FW	Integrated Pest Management	6							180
July- Sept	F& FW	Integrated Disease Management	2							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	
Oct-Dec	F& FW	Bio-control of pests and diseases	2							60
Jan- March	F& FW	Production of bio control agents and bio pesticides	1							30
Agriculture Extension (Capacity Building and Group Dynamics)										
Soil Science										
Apr- May	Farmers & Farm women	Soil fertility management	4							120
Jun-July	Farmers & Farm women	Soil and Water Conservation	2							65
Aug-sept	Farmers & Farm women	Integrated Nutrient Management	2							62
Oct-Nov.	Farmers & Farm women	Production and use of organic inputs	2							60
Dec	Farmers & Farm women	Management of Problematic soils	2							55
Jan	Farmers & Farm women	Micro nutrient deficiency in crops	2							60
Feb	Farmers & Farm women	Nutrient Use Efficiency	2							62
March	Farmers & Farm women	Soil and Water Testing	2							60

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										
Nil										
Horticulture										
Jan-Feb	RY	Nurseryman training	5							100
Oct-Dec	RY	Kitchen garden	5							100
Livestock production	Nil									
Home Science										
Dec-Jan	FW	Processing	2							20

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 value addition of fruit crops								
Plant Protection										
July -Aug	Rural Youth	Lac cultivation	4	30	10	40	60	20	80	120
Agriculture Extension (Capacity Building and Group Dynamics)										
Nil										
Soil Science										
Oct-Dec	Farmers & Farm women	Vermicompost production technique	3	10	2	12	68	10	90	

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	Extension Functionaries	Fodder production	2							30
Horticulture										
Sept	Extension Functionaries	Value addition on fruit and vegetables	2							30
Livestock production										
Nil										
Home Science										
Oct	Extension Functionaries	Mushroom production	2							30
Plant Protection										
July	Extension Functionaries	IPM in Kharif Crop	1							25
Sept	Extension Functionaries	IPM in Rabi Crop	1							25
Agriculture Extension (Capacity Building and Group Dynamics)										
Nil										
Soil Science	Farmers & Farm women	Integrated Nutrient Management	2							45
		Vermicompost production	1							28

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	fertilizer management	Nutrient management	3	RY	3							60	Deptt. of Agri.
2	Natural farming	Organic Farming	3	RY	3							90	

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	Rice	Indira aerobic-1	200.00
	Wheat	Hi-1544	40.00
OILSEEDS	Linseed	Jls-79	10.00
PULSES	Pigeon pea	rajeevlochan	4.00
VEGETABLES	Cowpea	kashi kanchan	1.00
	Brijal	Kashi uttam (tl) ,taru (bs)	0.06
	Bhindi	khasi chaman, kashi kranti	0.10
FLOWER CROPS	Marigold	Cg	0.05
OTHERS (Specify)	-	--	-

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava	L-49	1000
	Mango	dasahari, amrapali, langla	500
	Citrus	Seedless, kagzi	500
SPICES	Turmeric	suranjana	10.0 q
	Ginger	suravi	04.0q
VEGETABLES	Brinjal	Kasha uttam	2000
	Elephant foot yam	Gajendra	10.0 Q
FOREST SPECIES	Nil	Nil	Nil
ORNAMENTAL CROPS	Alovera , snack plant , asparagus etc.	--	500
PLANTATION CROPS	Jack fruit	Local	1000
	Jamun	Local	1000
Others (specify)	Mango	desi	1000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	<i>VIRIDI</i>		10 kg
2	<i>Rhizobium</i>			
3				
BIOFERTILIZERS				
1	Vermicompost	<i>EISENIA FEOTIDA</i>	-	100 kg
2	NADEP			
3				
BIO PESTICIDES				
1	Dasparni arkl			100 Lit.
2	Pesticides	-	-	-

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Cow	Sahival	04	-
SHEEP AND GOAT	Goat	Sirohi	10	-
POULTRY	-	-	-	-
FISHERIES	Chinese carp	Common carp	-	50
	Gift.	Tilapia	-	10
Others (Specify)	Nil	Nil	Nil	Nil

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

Date of start	Periodicity	Number of copies to be published
Apr- June	Quarterly	500
July- Sept	Quarterly	500
Oct-Dec	Quarterly	500
Jan- March	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	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	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	IPM

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: 2014-15

List of equipments purchased:

Sl. No.	Name of the Equipment	Qty.	Condition
1	Mini soil testing kit	02	working
2	N distillation Unit	1	working
3	Flame photometer	1	working
4	EC meter	1	working
5			

Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers (SHC)	No. of Villages	Amount realized
Soil Samples	150	150	10	
Water Samples	-	-	-	
Total	150	150	10	

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
FPO	Demonstration and Training
SHG's	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
1	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: 300 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
RICE	KHARIF	Indira Sugandhit Dhan – 1 Swarna Mahamaya Protizin Rice Bamleshwari Zinko Rice Danteshwari Indira Rajeshwari Samleshwari Poornima	Best performance on upland & yield potential	300
Wheat	Rabi	Kanishika (CG-1029) CG Hansha (CG-1023) CG Amber (CG-1018) CG Genhu-3 (CG-1013) CG Genhu- 4 (CG-1015) Ratna (CG-5016)	High yielding performance on less irrigation	300 Sqm
Linseed	Rabi	RLC-167 RLC -133 Deepika Kartika RLC-143 RLC-148 RLC- 167 Kiran RLC- 164 RLC- 153 Indira ALSI	Yield potential	

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	Rs. 5700
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	Napier grass production	4000	25000 slips
Fruit Plant nursery unit	Fruit sapling production (Guava, Mango, other fruits)	1500	10000
Seed production unit	Cereal, oilseeds and vegetable production	40000	252 q

ANNUAL ACTION PLAN 2023

KVK: Korea

Year of sanction: 2008

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. V. N. Gautam	KVK Korea	9827030160	Kvk.korea@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									
2	Subject Matter Specialist	Dr. V. N. Gautam	Subject Matter Specialist	Livestock Production Management	15600-39100-5400	12.09.2012	03.01.2023	9827030160	Kvk.korea@igkv.ac.in	
3	Subject Matter Specialist	Dr. Keshav Chandra Rajhans	Subject Matter Specialist	Horticulture	15600-39100-5400	06.10.2018	06.10.2018	7415302210	keshavrajhansa@gmail.com	
4	Subject Matter Specialist	Dr. Harishankar	Subject Matter Specialist	Agronomy	15600-39100-5400	06.10.2018	06.10.2018	7389618584	hspainkra89agro@gmail.com	
5	Subject Matter Specialist	Shri Vijay Kumar	Subject Matter Specialist	Plant Pathology	15600-39100-5400	08.10.2018	08.10.2018	9340681502	vanant143@gmail.com	
6	Subject Matter Specialist	Dr. Shambhuti Shankar Sahoo	Subject Matter Specialist	Livestock Production Management	15600-39100-5400	15.10.2018	15.10.2018	9575529355	shambhutisahu1987@gmail.com	
7	Subject Matter Specialist	Engineer Kamlesh Singh	Subject Matter Specialist	Farm Machinery & Power	15600-39100-5400	01.01.2019	01.01.2019	9753137225	Ks989911@gmail.com	
8	* Subject Matter Specialist	Shri P.R. Bobade	Subject Matter Specialist	Agromet	15600-39100-5400	07.09.2019	07.09.2019	7694054733	pawaragri@gmail.com	
9	Programme Assistant	Shri Doman Singh Tekam	Programme Assistant	Entomology	9300-34800-4200	31.10.2014	31.10.2014	9993450535	domantekam85@gmail.com	

10	Computer Programmer/ Programme Assistant	Shri Pankaj Kesharwani	Programme Assistant	Computer	9300-34800-4200	05.11.2019	19.07.2021	8269412403	Pankaj.kesharwani0994@gmail.com	
11	Farm Manager	Shri Phoolchand Kanwar	Farm Manager	Agronomy	9300-34800-4200	06.11.2019	06.11.2019	9407667590	kanwarpc21@gmail.com	
12	Assistant	Smt. Amrita Sahu	Assistant Grade – 1 (Contractual)		5200-20200-2800	27.01.2021	27.01.2021	7828624042	amritasahu21@gmail.com	
13	Jr. Stenographer / Comp. Operator	Shri Amarjeet Jaiswal	Assistant Grade – 2 (Contractual)		5200-20200-2400	11.01.2021	11.01.2021	8223080861	amarjeetjaiswal14@gmail.com	
14	Driver	Shri Shyam Kumar Rajwade	Driver		5200-20200-1900	30.03.2013	30.03.2013	9165190184	shyamrajwade963@gmail.com	
15	Driver	Shri Udit Narayan	Driver (Contractual)		5200-20200-1900	21.10.2022	21.10.2022	6264732539	-	
16	Supporting staff	Shri Chandar Minj	Peon (Contractual)		4750-7440-1300	26.10.2022	26.10.2022	8103381566	-	
17	Supporting staff	Shri Rakesh Kumar Tirkey	Peon (Contractual)		4750-7440-1300	23.12.2022	23.12.2022	8463091917	-	

*** Appointed by DAMU**

1.3 Total land with KVK (in ha): 9.41 (ha)

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)- Medicinal & Aromatic Farm	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) Tata Ace Gold	2021	406319.00	15887	Running

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Laptop	2009	49990.00	Not 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-2023

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

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, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	49.7	23	8.8
Feb, 22	26.0	26.6	9.0
Mar, 22	10.5	34.2	15.0
Apr, 22	0.0	40.1	21.2
May, 22	30.4	39.4	23.6
Jun, 22	245.9	36.6	24.2
July, 2022	207.9	30.9	24.2
Aug., 2022	340.3	30.2	23.1
Sept., 2022	221.3	30.0	22.8
Oct. 2022	112.8	29.6	18.2
Nov. 2022	0.0	27.9	9.9
Dec. 2022	0.0	26.6	8.7

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 (2022)

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.
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.	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
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.	Visits, Farmers Scientist Interaction, SHG's Meet, Socio economic dynamics, Monthly Workshop with line departments as per the need assessment of District.

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		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
13	46	10	46

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
51	1360	396	7070

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

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	01
Integrated Crop Management	0	0	1	0	0	0	0	0	0	01
Organic Farming	1	0	0	0	0	0	0	0	0	01
Farm Mechanization	0	2	2	0	0	0	0	0	0	04
TOTAL	02	02	03	01	02	0	0	0	01	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
Integrated Farming System	1	1	0	0	0	0	0	02
TOTAL	1	1	0	0	0	0	0	02

Details of On Farm Trial (OFT)

OFT-1

Crop / Enterprise	Turmeric var. Roma	
Title of on farm trial	Assessment of Improved variety Turmeric (Roma) with Paddy Straw Mulching for higher tuber yield	
Problem diagnosed	Local variety, Poor crop Management Practices, Higher weed population during early stage of crop	
Farmers' Practices	Locally Available Variety	
Details of technologies selected for assessment	T ₁	Locally Available Variety
	T ₂	Improved variety Roma+ Paddy Straw Mulching
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	Sweet Potato var. Shree Bhadra	
Title of on farm trial	Assessment of Improved Variety of Sweet Potato under upland rice field	
Problem diagnosed	Local variety, Poor crop management practices, poor yield	
Farmers' Practices	Local variety, Planting of Sweet Potato in flat bed with flood irrigation	
Details of technologies selected for assessment	T ₁	Local variety, Planting of Sweet 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-3

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 selected for 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-4

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 selected for 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-5

Crop / Enterprise	Maize	
Title of on farm trial	Assessments of weed management practices on growth and yield attribute of Maize.	
Problem diagnosed	Low yield due to high crop weed competition during early growth stages	
Farmers' Practices	No weed management and some time Hand weeding	
Details of technologies selectedfor assessment	T ₁	Hand weeding
	T ₂	Tembotrione + Atrazine @ 120g/ha+500g/ha
Source of technology	CSK HPKV, Palampur	
Plot size	0.40 ha	
No. of farmers	06	
Total cost	9000.00	
Critical input	Herbicide	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Weed density m ⁻² , growth parameter and yield attributes	

OFT-6

Crop / Enterprise	Black Gram	
Title of on farm trial	Assessment of weed management practices & fertilizer management on yield of black gram.	
Problem diagnosed	Low yield due to high weed infestation and improper fertilizer application	
Farmers' Practices	Hand weeding	
Details of technologies selectedfor assessment	T ₁	Hand weeding
	T ₂	Imazathyper @100g/ha at 15-20 DAS (N:P:K:Zn - 20:50:20:20)
Source of technology	DWR, Jabalpur	
Plot size	0.40 ha	
No. of farmers	06	
Total cost	11000.00	
Critical input	Herbicide and fertilizer	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Weed density m ⁻² , plant height and yield attributes	

OFT-7

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of Organic Manure in Yield of Scented Rice.	
Problem diagnosed	Low yield due to no use of proper Organic Manure	
Farmers' Practices	Not use of organic manure at proper method and time	
Details of technologies selectedfor assessment	T ₁	Farmers practices
	T ₂	Green manuring + 50% RDN through FYM
Source of technology	BHU	
Plot size	0.40 ha	
No. of farmers	03	
Total cost	18000.00	
Critical input	FYM and Vermicompost	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plant height, No. of tillers, Yield attributes and Yield	

OFT-8

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-9

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	12000.00	
Critical input	Seeds and Multicrop planter	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Seed yield (q/ha.)	

OFT-10

Crop / Enterprise	Linseed	
Title of on farm trial	Assessment of Seed Cum-Fertilizer Drill for Line Sowing in Linseed.	
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	13000.00	
Critical input	Seed Cum-Fertilizer Drill and DAP	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Seed yield (q/ha.)	

OFT-11

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 selected for 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 -12

1	Enterprise	Kadaknath
2	Title of on-farm trial	Assessment of Suitability of Kadaknath Breed of Poultry Birds in Tribal Region of Korea District
3	Problem diagnosed	Higher Mortality Rate and low Body weight gain by locally available Poultry birds
4	Farming situation	Deep litter system
5	Production system and thematic area	IFS
6	Farmers' practices	Locally available Poultry Birds
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : Locally available Poultry Birds : T ₂ : Rearing of Kadaknath Poultry Birds in Deep litter System
8	Source of technology	NDVSU Jabalpur
9	No. of animals	
10	No. of farmers	3 (70 birds per trial)
11	Critical input	Kadaknath Poultry Chicks
12	Cost of input	5000.00
13	Total cost	6000.00
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Growth Rate , Body Weight Gain

OFT -13

1	Enterprise	Dairy Farming
2	Title of on-farm trial	Assessment of Duramactine as Ecto Endo Parasitical Infestation on Milk Production in Dairy Cattle
3	Problem diagnosed	Low Milk Production due to Parasitic Infestation
4	Farming situation	Semi Intensive Farming System
5	Production system and thematic area	IFS
6	Farmers' practices	Not doing Deworming for Parasitic Infestation
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : Not doing Deworming for Parasitic Infestation : T ₂ : Use of Duramactine as Ecto Endo Parasitic Drug
8	Source of technology	NDVSU Jabalpur
9	No. of animals	
10	No. of farmers	04
11	Critical input	Duramactine as Dewormer
12	Cost of input	500.00
13	Total cost	600.00
14	Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk production in ltr.

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)	Horticulture
Title of on-farm trial:	Assessment of Improved variety Turmeric (Roma) with Paddy Straw Mulching for higher tuber yield
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Local variety, Poor crop Management Practices, Higher weed population during early stage of crop
Thematic area:	Varietal Evaluation
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Locally Available Variety
T2 –Recommended Practice-	Improved variety Roma+ Paddy Straw Mulching
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Turmeric var. Roma
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)	Horticulture
Title of on-farm trial:	Assessment of Improved Variety of Sweet Potato under upland rice field
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Local variety, Poor crop management practices, poor yield
Thematic area:	Varietal Evaluation
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local variety, Planting of Sweet Potato in flat bed with flood irrigation
T2 –Recommended Practice-	Ridge & Furrow + Improved Variety
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Sweet Potato var. Shree Bhadra
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)	Horticulture
Title of on-farm trial:	Assessment of hybrid variety of Brinjal for Korea dist
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Lack of suitable hybrid variety of Brinjal
Thematic area:	Varietal evaluation
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Locally available Variety
T2 –Recommended Practice-	Brinjal var. Pusa Shymala
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Brinjal var. Pusa Shymala
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)	Horticulture
Title of on-farm trial:	Assessment of improved variety cucumber under shade net house
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Farmer generally cultivates 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
Thematic area:	Precision Farming
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Cucumber cultivation in open field
T2 –Recommended Practice-	Cucumber var. Priya cultivation under shade net house
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Cucumber var. Priya
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

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:	Assessments of weed management practices on growth and yield attribute of Maize
Year/Season:	
Farming situation:	Midland/upland
Problem diagnosis:	Low yield due to high crop weed competition during early growth stages
Thematic area:	Integrated Weed Management
No of trials:	03
No. of farmers involved	06
Type of OFT (Assessment/ Refinement):	
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Hand weeding
T2 –Recommended Practice-	Tembotrione + Atrazine @ 120g/ha+500g/ha
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	CSK HPKV, Palampur
Characteristics of technology:	
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

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 weed management practices & fertilizer management on yield of black gram.
Year/Season:	
Farming situation:	Midland/upland
Problem diagnosis:	Low yield due to high weed infestation and improper fertilizer application
Thematic area:	Integrated Crop Management
No of trials:	03
No. of farmers involved	06
Type of OFT (Assessment/ Refinement):	
T1 – Farmers Practice-	Hand weeding
T2 –Recommended Practice-	Imazathyper @100g/ha at 15-20 DAS (N:P:K:Zn - 20:50:20:20)
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	DWR, Jabalpur
Characteristics of technology:	
Name of Crop/Enterprises:	Black Gram
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

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:	Assessment of Organic Manure in Yield of Scented Rice
Year/Season:	
Farming situation:	Low land
Problem diagnosis:	Low yield due to no use of proper Organic Manure
Thematic area:	Organic farming
No of trials:	06
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	
T1 – Farmers Practice-	Farmers practices
T2 –Recommended Practice-	50% Vermicompost + 50% RDN through FYM
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	BHU
Characteristics of technology:	
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT - 8

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 Multi Crop Planter for line sowing in Mustard
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Low Yield Due to Broadcasting Practices
Thematic area:	Farm Mechanization
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	
T1 – Farmers Practice-	Broadcasting
T2 –Recommended Practice-	Line sowing with Multicrop Planter
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

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 Multi crop Planter for Planting of Pigeon Pea
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to Broadcasting and High seed rate
Thematic area:	Farm Mechanization
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	
T1 – Farmers Practice-	Broadcasting
T2 –Recommended Practice-	Planting with Multicrop Planter
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Pigeon Pea
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)	Agri Engineering
Title of on-farm trial:	Assessment of Seed Cum-Fertilizer Drill for Line Sowing in Linseed.
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Broadcasting and High Seed rate
Thematic area:	Farm Mechanization
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	
T1 – Farmers Practice-	Broadcasting
T2 –Recommended Practice-	Line 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:	Linseed
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

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 Seed Cum Fertilizer Drill on Line Sowing in Black Gram
Year/Season:	
Farming situation:	Irrigated
Problem diagnosis:	Broadcasting and High Seed Rate
Thematic area:	Farm Mechanization
No of trials:	03
No. of farmers involved	03
Type of OFT (Assessment/ Refinement):	
T1 – Farmers Practice-	Broadcasting
T2 –Recommended Practice-	Line 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:	Black Gram
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)	Animal Science
Title of on-farm trial:	Assessment of Suitability of Kadaknath Breed of Poultry Birds in Tribal Region of Korea District
Year/Season:	
Farming situation:	Deep litter system
Problem diagnosis:	Higher Mortality Rate and low Body weight gain by locally available Poultry birds
Thematic area:	IFS
No of trials:	03
No. of farmers involved	3 (70 birds per trial)
Type of OFT (Assessment/ Refinement):	
T1 – Farmers Practice-	Locally available Poultry Birds
T2 –Recommended Practice-	Rearing of Kadaknath Poultry Birds in Deep litter System
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	NDVSU Jabalpur
Characteristics of technology:	
Name of Crop/Enterprises:	Kadaknath
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)	Animal Science
Title of on-farm trial:	Assessment of Duramactine as Ecto Endo Parasitical Infestation on Milk Production in Dairy Cattle
Year/Season:	
Farming situation:	Semi Intensive Farming System
Problem diagnosis:	Low Milk Production due to Parasitic Infestation
Thematic area:	IFS
No of trials:	04
No. of farmers involved	04
Type of OFT (Assessment/ Refinement):	
T1 – Farmers Practice-	Not doing Deworming for Parasitic Infestation
T2 –Recommended Practice-	Use of Duramactine as Ecto Endo Parasitic Drug
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	NDVSU, Jabalpur
Characteristics of technology:	
Name of Crop/Enterprises:	Dairy 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 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	Tomato	Integrated Crop Management	Improved Variety Seed , Mulching and Staking	Improved Variety Seed, Paddy Straw Mulching and Bamboo Sticks	Rabi, 2023	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, 2023	01 ha	05	Tuber yield q/ha
3	Marigold	Varietal evaluation	Improved variety of Marigold cv. Pusa Narangi Gaiinda	Improved Variety Seedling	Rabi, 2023	01 ha	05	Flower yield q/ha
4	Chilli	Integrated Disease Management	Seed Treatment with Thiomethoxam 25%WG @10 ml/kg Seeds+ Soil application of Carbaforun@15 kg/ha during transplanting	Insecticide & Fungicide	Rabi, 2023	01 ha	05	Fruit yield q/ha
5	Field Pea	Integrated Crop Management	Demonstration of Seed Treatment, Fertilizer Management and methods of sowing	Fungicide, Fertilizers and Sowing of Field Pea	Rabi 2023	01 ha	03	Plant Height, No. of Branches and Yield Attributes
6	Chickpea	Integrated Crop Management	Demonstration of Seed Treatment, Fertilizer and Weed Management Practices	Fungicide, Herbicide, Insecticide and Fertilizers	Rabi 2023	01 ha	03	Plant Height, No. of Branches, No of seeds/ pod Yield Attributes and Yield

7	Black gram	Farm Mechanization	Line Sowing with Seed Cum-Fertilizer Drill	Seed Drill, DAP, MOP	Kharif, 2023	01 ha	05	Seed Yield q/ha
8	Pigeon Pea	Farm Mechanization	Line Sowing with Multi Crop Planter	Multi Crop Planter, DAP	Kharif, 2023	01 ha	05	Seed Yield q/ha
9	Chick Pea	Farm Mechanization	Line Sowing with Multi Crop Planter	Seed, Multi Crop Planter, DAP	Rabi, 2023	01 ha	05	Seed Yield q/ha
10	Field Pea	Farm Mechanization	Line Sowing with Multi Crop Planter	Seed, Multi crop planter, DAP	Rabi, 2023	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	08	Jan – Dec 2023	260
2	Farmers Training	16	Jan – Dec 2023	512
3	Media coverage	10	Jan – Dec 2023	Mass
4	Training for extension functionaries	04	Jan – Dec 2023	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
Seed Cum-Fertilizer Drill	Black gram	Kharif, 2023	05	01 ha	Seed Drill, DAP, MOP	Seed Yield q/ha		
Multi Crop Planter	Pigeon Pea	Kharif, 2023	05	01 ha	Multi Crop Planter, DAP	Seed Yield q/ha		
Multi Crop Planter	Chick Pea	Rabi, 2023	05	01 ha	Seed, Multi Crop Planter, DAP	Seed Yield q/ha		
Multi Crop Planter	Field Pea	Rabi, 2023	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
Dairy	Sahiwal and gir	5	3	Shed , mate chaff cutter , water	Milk	3 kg	0.5 kg
Poultry	vanraja	1	500	Shed	Meat	1kg	0.6kg

**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
Processing unit	Cereal, pulses and oilseed	10	04	Machinery	Hulling %, Grain straw ratio etc.	Hulling %, Grain straw ratio etc.	Hulling %, Grain straw ratio etc.

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

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, Biopetocide	Kharif 2023	20	50	Yield
2	Blackgram	Integrated Crop Management	Sowing with Multi-crop Planter	Seed, Biofertilizer, Biopetocide	Kharif 2023	20	50	Yield
3	Chickpea	Integrated Crop Management	Sowing with Multi-crop Planter	Seed, Biofertilizer, Biopetocide	Rabi 2023-24	20	50	Yield
4	Fieldpea	Integrated Crop Management	Sowing with Multi-crop Planter	Seed, Biofertilizer, Biopetocide	Rabi 2023-24	20	50	Yield
5.	Niger	Integrated Crop Management	Seed treatment with fungicide, IPM, NPM etc.	Seed Biofertilizer, Biopetocide	Kharif	20	50	Yield
6.	Sesame	Integrated Crop Management	Seed treatment with fungicide, IPM, NPM etc.	Seed Biofertilizer,Biopetocide	kharif	20	50	Yield
7.	Mustard	Integrated Crop Management	Seed treatment with fungicide, IPM, NPM etc.	Seed Biofertilizer,Biopetocide	Rabi	20	50	Yield
8.	Linseed	Integrated Crop Management	Seed treatment with fungicide, IPM, NPM etc.	Seed Biofertilizer, Biopetocide	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 2023	250
2	Farmers Training	16	June-Dec 2023	520
3	Media coverage	08	June-Dec 2023	Mass
4	Training for extension functionaries	08	June-Dec 2023	24

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	02	5	4	9	13	10	23	32
Resource Conservation Technologies	01	01	8	5	13	13	8	21	34
Integrated Farming	02	05	9	7	16	12	4	16	32
Water management	01	01	7	3	10	13	5	18	28
Seed production	02	03	6	4	10	18	8	26	36
Integrated Crop Management	02	02	5	6	11	14	9	23	34
Total	09	15	40	29	69	30	44	127	196
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	01	01	10	3	13	15	7	22	35
Protective cultivation (Green Houses, Shade Net etc.)	01	01	07	2	09	11	5	16	25

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Total	02	02	17	5	22	26	12	38	60
b) Fruits									
Management of young plants/orchards	03	01	13	2	15	30	5	35	50
Total	03	01	13	2	15	30	5	35	50
c) Ornamental Plants									
Total									
d) Plantation crops									
Total									
e) Tuber crops									
Total									
f) Spices									
Production and Management technology	02	01	10	3	13	14	8	22	35
Total	02	01	10	3	13	14	8	22	35
g) Medicinal and Aromatic Plants									
Production and management technology									
Total									
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation	01	02	7	9	16	10	7	17	33
Integrated	01	01	6	7	13	15	7	22	35

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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	02	02	26	4	30	60	10	70	100
Income generation activities for empowerment of rural Women									
Location specific drudgery reduction technologies									
Women and child care									
Total	02	01	26	4	30	60	10	70	100
VI Agril. Engineering									
Care & Maintainance of Farm Machinery	02	02	10	10	20	13	07	20	40

[illegible]

[illegible]

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female	Total		Male	Female	Total		
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	01	02	4	3	7	15	8	23	30
Resource Conservation Technologies	02	1	6	2	8	19	12	31	49
Cropping Systems	01	01	9	4	13	12	5	17	30
Crop Diversification	01	01	8	6	14	12	5	17	31
Integrated Farming	02	1	9	7	16	16	8	24	40
Water management	01	1	8	5	13	17	6	23	36
Seed production									
Nursery management	02	02	19	8	27	25	18	43	70

1. On Campus

[illegible]

[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										
March 2023	F	Importance of summer plowing	1	8	2	11	15	6	21	32
April 2023	F	Natural farming	1	7	5	12	17	7	24	36
May 2023	F	Importance of green manuring and green manuring crops	1	6	4	10	15	5	20	30
June 2023	F	INM in cereal crops and Millets and fodder production	2	8	3	11	14	7	21	32
July 2023	F	Water conservation practices and their importance in crops	1	9	5	14	18	5	23	47
August 2023	F	INM in oilseed crops	1	10	3	13	20	4	24	37
September 2023	F	Weed management in millets	1	11	4	15	10	7	17	32
October 2023	F	Cultivation practices of rabi pulses	1	6	6	12	13	6	19	31
Horticulture										
July 2023	F	Export potential fruits	1	10	5	15	27	8	35	50
May 2023	F	Micro irrigation	1	10	5	13	16	4	20	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	
		systems of orchards								
September 2023	F	Management of potted plants	1	10	5	15	15	5	20	35
Livestock production										
April 2023	F	Prevention and cure of disease in dairy animal	1	4	3	7	14	6	20	27
June 2023	F	Prevention and cure of disease in small ruminant	1	2	2	4	16	4	20	24
August 2023	F	Prevention and cure of disease in poultry	1	5	2	7	15	5	20	27
October 2023	F	Nutritional management of poultry	1	2	2	4	15	5	20	24
December 2023	F	Green fodder production and mangement	1	3	2	5	16	4	20	25
Home Science										
Plant Protection										
Agriculture Engineering										
February 2023	F	Modern Agricultural Machinery & Equipments	1	4	6	10	5	5	10	20

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	
March 2023	F	Agricultural Food Processing & Value Addition	1	3	7	10	4	6	10	20
Aprill 2023	F	Post Harvest Management	1	3	7	10	4	6	10	20
May 2023	F	Utilization of Irrigation System	1	2	8	10	3	6	10	20
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 2023	RY	Seed Production Technology in Cereal and Pulse Crop	02	10	05	15	18	11	29	44
September 2023	RY	Principle and Practices of Organic Farming	01	05	02	07	13	12	25	32
October 2023	RY	Package and Practices of Millet Production	02	16	09	25	22	15	37	62
Horticulture										
April 2023	RY	Protected Cultivation of Vegetables and	01	10	5	15	15	5	20	35

[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	Bamboo Cultivation	Agro Forestry	02		06	15	45	0	0	15	45	60	RNBM
2	Water conservation	Resource conservation technology	01		1	25	56	20	15	45	71	116	CREDA

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			350			08			358
Kisan Mela	03			Mass			40			Mass
Kisan Ghosthi	05			200			10			210
Exhibition	10			150			05			155
Film Show	05			150			05			155
Method Demonstrations	02			50			10			60
Farmers Seminar	05			150			05			155
Workshop	05			200			10			210
Group meetings	05			150			10			160
Lectures delivered as resource persons	30			900			12			912
Newspaper coverage	30			Mass			10			Mass
Radio talks	05			Mass			75			Mass
TV talks	02			Mass			15			500
Popular articles	05			Mass						Mass
Extension Literature	10			500			25			525
Advisory Services	50			Mass						Mass
Scientific visit to farmers field	20			125			15			140
Farmers visit to KVK	10			700			10			710
Diagnostic visits	70			100			5			105
Exposure visits	25			250			12			262
Ex-trainees Sammelan	20			125			15			140
Soil health Camp	05			120			5			125

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Animal Health Camp	05			250			20			270
Agri mobile clinic	05			500			50			550
Soil test campaigns	05			100			5			105
Farm Science Club Conveners meet	01			55			5			60
Self Help Group Conveners meetings	05			75			10			85
Mahila Mandals Conveners meetings	10			150			8			158
Celebration of important days (specify)	10			300			24			324
Awareness Programme	15			360			25			385
Technology Week	02			50			04			54
Krishi Mahotsav	04			100			05			105
Pradhanmantri phasal beema yojana	02			80			12			92
Others (pl. specify)										
Total										

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
	Fig	Poona & Diana	500
	Guava	Lukhnow-49, Allahabad Safeda	2000
	Karonda	Mahroon	10000
	Litchi	Ambika Litichi-1 and Kalkatiya	2000
	Mango	Dasheri, Langra, Malika, Amarpalli	5000
	Papaya	Surya/ CO 1	8000
SPICES	Turmeric	Roma & Rashmi	10 q
VEGETABLES	Drumstick	PKM-1	5000
MEDICINAL	Lemon grass	Kaveri Krishna and Cim Shikhar	50000 Slips
	Citronella	Bio-13	50000 Slips
FOREST SPECIES	-	-	
ORNAMENTAL CROPS	-	-	-
PLANTATION CROPS	-	-	-
MUSHROOM SPWAN	Oyster	Oyster	200 kg
SOAP	-	8 Type Soap	200 No
AGARBATTI	-	Mosquito Repellent	200 No
Others (specify)			

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
		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
01/01/2023	Jan-March	100
01/04/2023	April-June	100
01/07/2023	July-Sept	100
01/10/2023	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	-	-	-

Success stories/Case studies identified for development as a case: 10 (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	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	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

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	-	-	-
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
Honey Bee 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	Natural Farming in different crop	120
Agri Drone	Spry of pesticide by drone	500

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 4100 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Turmeric	Kharif	Turmeric var Roma/Reshmi	Seed production	4000
Rice	Kharif	Indira Barani, Jeeraphul, Narpati		20
Millets	Kharif	Finger millet, Kodo & Kutaki	Demonstration	20

Vegetables	Kharif	Seasonal Vegetable	Demonstration	20
Black Gram	Kharif	Indira Urad-1	Demonstration	20
Fennel	Rabi	AF-1	Seed production	2000
Ajwain	Rabi		Seed production	2000
Wheat	Rabi	Sujata	Demonstration	20
Chickpea	Rabi	RVG-202	Demonstration	20
Field Pea	Rabi	Paras	Demonstration	20
Mustard	Rabi	CG-Sarson	Demonstration	20
Linseed	Rabi	JLS-79	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
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 2023

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.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	P h o t o
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	Dr. Arvind Kumar Nandanwar	SMS	LPM	56100-177500, 73200	24.09.12	01.10.18	9993544995	arvind.nandanwar@gmail.com	
4	Subject Matter Specialist	Shri Kunal Chandrakar	SMS	Soil Science	56100-177500, 65000	16.09.14	10.08.15	9754377591	kunal1586@gmail.com	
5	Subject Matter Specialist	Mrs. Rajni Dharmendra Agashe	SMS	Agricultural Extension	56100-177500, 65000	22.09.14	12.10.20	7389325085	rajniagashe@gmail.com	
6	Subject Matter Specialist	Er. Ravish Keshri	SMS	Soil & Water Engineering	56100-177500, 69000	20.10.14	20.10.14	9425373479	ravishkeshri@gmail.com	
7	Subject Matter Specialist	Deepanshu Mukherjee	SMS	Agro meteorology	56100-177500, 65000	07.09.19	07.09.19	6261968323	deepajeet10@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	Shri B. P. Dhruw	Driver	-	49000	-	20.12.05	7697759028	kvkmahasamund@gmail.com	
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. N o.	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						

B) 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	86501	working
Tractor	2005	Write off		Write off

C) 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	July 2023

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	Entisols (Bhata): lateritic	Acidic, low nitrogen, low phosphorus, medium potassium	58438
2	Inceptisols (Matasi): Sandy loam	Low nitrogen, medium phosphorus, high potassium	107547
3	Alfisols (Dorsa): Clay loam	Low nitrogen, medium phosphorus, high potassium	59667
4	Vertisols (Kanhar): Clayey	Medium nitrogen, medium phosphorus, high potassium	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	12375	184185	14.88
2	Vegetables	17047	297923	17.47
3	Spices	5011	56047	11.18
4	Flowers	1628	24427	15.00

Source: Department of Horticulture and Farm Forestry, Nava Raipur, C.G,2021-22

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	6.4	30.0	7.0
Feb, 22	7.0	34.0	8.5
Mar, 22	0.0	41.0	15.0
Apr, 22	5.6	44.5	20.5
May, 22	2.5	44.8	20.0
Jun, 22	2.8	46.5	23.0
July, 2022	48.2	35.5	24.8
Aug., 2022	111.0	24.2	23.2
Sept., 2022	29.8	34.4	23.8
Oct. 2022	22.0	33.5	15.0
Nov. 2022	0.0	33.5	10.0
Dec. 2022	0.0	32.5	8.2

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 <i>Crossbred/ Indigenous</i>	1884	--	---
Rabbits	--	--	--
Poultry			
Hens	10.9 L	7.2 Lakh eggs	 eggs/ bird/yr
Turkey and others	--	---	--
Category			
Fish	Area	Production	Productivity
	--(ha)	...Q/ month	Q/ ha.

Details of Operational area / Villages (2022)

Sl. No.	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
20	96	11	66

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
48	1260	13	250

Seed Production (Qtl.)	Planting material (Nos.)
56	809000

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
11	2	1	3		1	1		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
4	2	1		1				4

Detailed Information about OFT:

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture (OFT-1)
Title of on-farm trial:	Assessment of fruit bagging in Guava
Year/Season:	2023/ Rabi
Farming situation:	Irrigated

Problem diagnosis:	Pest infestation and low quality fruits.
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-	Fruit bagging in Guava, Bagging Prevents
T2 –Recommended Practice-	Pest infestation, improves colour and quality of fruits.
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	Guava
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 (OFT-2)
Title of on-farm trial:	Assessment of Marigold Propagation through cuttings
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Lack of Production technology of Marigold through cuttings
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-	Marigold Propagation through Seeds
T2 –Recommended Practice-	Marigold Propagation through Cuttings
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	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Horticulture (OFT-3)
Title of on-farm trial:	Assessment of Chemical Weed Management in Onion
Year/Season:	2023/Rabi
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/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Pendamethalin @ 2 lt. per ha after 0-3 days after transplanting
T2 –Recommended Practice-	Oxyflourfen @ 250 ml. /ha after 20 days after transplanting
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
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)	Horticulture (OFT-4)
Title of on-farm trial:	Assessment of Colocassia Variety Indira Arbi-2
Year/Season:	2023/Kharif
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/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 Use of Unidentified Variety
T2 –Recommended Practice-	T2 Improved Colocassia Variety Indira Arbi-2
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	

Name of Crop/Enterprises:	Colocassia
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 (OFT-5)
Title of on-farm trial:	Assessment of foliar application of Nano Urea in paddy
Year/Season:	2023- Kharif
Farming situation:	Irrigated
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:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	T1 Imbalance fertilizer application
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:	Paddy
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 (OFT-6)
Title of on-farm trial:	Assessment of Natural farming Based Nutrient Management in Scented Rice (Var. – CG Devbhog)
Year/Season:	2023- 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	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Soil Science (OFT-7)
Title of on-farm trial:	Assessment of INM in Finger Millet (Var. Chhattisgarh Ragi 2)
Year/Season:	2023- 24- Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of fertilizer, use of local variety, no use of organic manure and Biofertilizer
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-	T1- Imbalance use of fertilizer, use of local variety, no use of organic manure and Biofertilizer
T2 –Recommended Practice-	T2- Application of 75% (N:P:K-40:20:20 kg/ha.) with seed treatment through Azotobacter + PSB + KSB @5g/kg of seed & FYM 5 ton/ha
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	
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)	Soil Science (OFT-8)
Title of on-farm trial:	Assessment of Soil Health Card (SHC) based Nutrient Management in Wheat (Var.- CG 1023 Hansa)
Year/Season:	2023-24, 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	
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 (OFT-9)
Enterprise	
Title of on-farm trial	Assessment of ITK on use of neem (Azadirachta indica) and jaggery for treatment of intestinal worm infestation in animals
Problem diagnosed	Appearance of animal health is weak and low milk production
Farming situation	
Production system and thematic area	Health management
Farmers' practices	No treatment of animals
Details of technologies selected for assessment/refinement Treatments	T ₁ : A paste is prepared by mixing 250 g jaggery and 500 g neem (Azadirachta indica) leaves. This paste is given orally to the animals twice daily for the treatment of worm infection up to the 3 days T ₂ :
Source of technology	JNKVV, Jabalpur
No. of animals	20
No. of farmers	5
Critical input	Neem leaves and Jaggery
Cost of input	100
Total cost	2000

Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science (OFT-10)
Enterprise	
Title of on-farm trial	Comparative evaluation of poultry bird Sonali and Local
Problem diagnosed	Low production of local breed and it takes a longer period to gain weight
Farming situation	
Production system and thematic area	Breed Assessment
Farmers' practices	Rearing of indigenous breed of poultry
Details of technologies selected for assessment/refinement Treatments	T ₁ : Rearing of cross breed (Sonali) of poultry T ₂ :
Source of technology	TANUVAS, TamilNadu
No. of birds	150
No. of farmers	6
Critical input	Body weight, mortality
Cost of input	7200
Total cost	
Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Body weight, mortality

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science (OFT-11)
Enterprise	
Title of on-farm trial	Assessment of ITK in disease management in goats
Problem diagnosed	High incidence of diarrhea
Farming situation	Farmers use allopathic medicines because they do not know about ITK
Production system and thematic area	Disease management
Farmers' practices	Farmers use allopathic medicines because they do not know about ITK
Details of technologies selected for assessment/refinement Treatments	T ₁ : Juice of gurhal flowers (Hibiscus malvaceae) (3 flowers) 5 ml is orally administered twice a day for 3 days T ₂ :
Source of technology	CIRG, Mathura
No. of animals	30
No. of farmers	6
Critical input	Juice of gurhal flowers
Cost of input	100
Total cost	3000

Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Recovery percentage

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Animal Science (OFT-12)
Enterprise	
Title of on-farm trial	Assessment of use of gram flour (Cicer arietinum), fenugreek (Trigorella foenumgraecum L.) and jaggery to recover milking efficiency of cattle
Problem diagnosed	Poor and unbalanced feeding to animals causing diarrhea and ultimately adverse effect on milk production
Farming situation	
Production system and thematic area	Livestock Production and Management
Farmers' practices	No use of feed supplement
Details of technologies selected for assessment/refinement Treatments	Make a paste by use of 250 g gram flour , 250 g fenugreek and 250 g jaggery and give twice a day to the animal suffering from decreased milking efficiency up to 10 days
Source of technology	JNKVV, Jabalpur
No. of animals	18
No. of farmers	6
Critical input	Gram flour , Fenugreek and Jaggery
Cost of input	600
Total cost	10800
Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Milk yield , Net return and B:C ratio

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Agri Engineering (OFT-13)
Title of on-farm trial:	Assessment of millet planter for sowing of Finger millet (Ragi)
Year/Season:	Kharif 2023
Farming situation:	Rainfed
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- T1: sowing of Ragi with millet planter
T2 –Recommended Practice-	T2: broadcasting (control)

T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	CRIDA, Hyderabad
Characteristics of technology:	Line sowing, low seed rate
Name of Crop/Enterprises:	Finger millet (Ragi)
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 (OFT-14)
Title of on-farm trial:	Assessment of gravity drip for efficient water management in <i>Badi</i>
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Higher amount of water application, weed problem
Thematic area:	Water 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: Irrigation with gravity drip
T2 –Recommended Practice-	T2: flooding
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	Higher water productivity, low weed infestation
Name of Crop/Enterprises:	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)	Agri Engineering (OFT-15)
Title of on-farm trial:	<i>Assessment of Maize Dehusker cum Sheller</i>
Year/Season:	Kharif/Rabi 2023
Farming situation:	NA
Problem diagnosis:	Less efficiency, tedious, time consuming

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: Maize Dehusker cum Sheller
T2 –Recommended Practice-	T2: Manual Labour
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	IGKV, Raipur
Characteristics of technology:	Higher field capacity
Name of Crop/Enterprises:	Maize
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 (OFT-16)
Title of on-farm trial:	<i>Assessment on effect of vibratory subsoiler on growth and yield of Black gram</i>
Year/Season:	2023/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: Deep tillage by Rotary Subsoiler
T2 –Recommended Practice-	T2: No deep tillage (control)
T3- Recommended Practice-	
Date of sowing:	
Date of harvesting:	
Source of technology:	ICAR-IISR, Indore
Characteristics of technology:	Increase infiltration and darinage
Name of Crop/Enterprises:	Black Gram
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT: 17

Title	Assessment of utilization of ICT based app (Crop doctor) in Plant protection of paddy crop by the farmers of Mahasamund district. Crop Doctor App.
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)	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.	

Information about Extension OFT: 18

Title	Assessment of performance of Farmers Producer Organizations on Socio-Economic, Knowledge and Technology level on members of FPO in Mahasamund District of Chhattisgarh.
Season & Year	2023-24, Rabi
Problem identified	Farmers are not jointly organized with FPOs 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	Farmer Producer Organization
Farmers Practice	No membership of farmers in FPO 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	

Information about Extension OFT: 19

Title	Study on Impact of CFLD Pulses (Chickpea, Variety RVG-202) on the, Transfer of Technology, Production and Income of farmers in Mahasamund District
Season & Year	2023-24,Kharif
Problem identified	The impact assessment of CFLD Pulses (Chickpea, Variety RVG-202) is not conducted yet which is vital to assess the worthiness or effectiveness of this programme.
Thematic Area	Impact Assessment
Farming situation	---
Name of Technology Intervention under study	Chickpea
Farmers Practice	Use of local variety and traditional practices
No. of replication (Farmers)	50

Results / findings

Performance indicators/ parameters	Unit/ details
Extension gap, Technology gap, Additional return, Percent increase yield, Technology index, Problem faced by farmers to adopt technology.	

Name of Discipline (like Agronomy/Horticulture/ Soil Science/ Plant Protection/Plant Breeding/ Agroforestry/Agri Engineering/Animal Science/ Fisheries etc)	Plant Protection (OFT-20)
Title of on-farm trial:	Assessment of IPM module against <i>Helicoverpa armigera</i> in Chickpea
Year/Season:	Rabi 2023-24
Farming situation:	Irrigated
Problem diagnosis:	30% loss of crop yield due to infestation of <i>Helicoverpa armigera</i> in Chickpea
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-	T1- Farmers practice
T2 –Recommended Practice-	T2- Use of Pheromone traps @ 25 Nos/ ha. Bird perches @ 50 Nos/ ha , Need based insecticide
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	

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	Cowpea	Crop Production	Improved Variety “Kashi Kanchan”	Seed	Kharif 2023	0.4	05	Yield, B:C ratio
2	Papaya	Crop Production	Improved Variety VNR Ameena	Planting Material	Rabi 2023	0.4	05	Fruit Weight, Peel wt, Yield, B:C ratio
3	BlackGram	INM	Demonstration of INM in Black gram	Seed, Biofertilizer	Kharif 2023	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, Liquid Fertilizer	Rabi 2023-24	4.8	12	1. Plant height 2. Plant root growth observation 3. Root nodule /plant 4. yield q./ha 5. B:C Ratio
9	Paddy Straw Mushroom	Integrated Farming System (IFS)	Paddy Straw Mushroom production	Spawn, Polythene Bags and other Essential Inputs	Kharif 2023 +Rabi 2023-24 (both season)	10	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	10	10	Local Check/ Farmer Practice: Yield and B : C ratio
11	Paddy	IPM	IPM based module	Pheromone Traps and Bio agents	Kharif 2023	02	05	Yield loss due to stem borer and indiscriminate use of insecticide .

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	05		1500
2	Farmers Training	48		1260
3	Media coverage	30		Mass
4	Training for extension functionaries	15		600

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
Farm Mechanization - Paddy Crop Residue Management by Tractor Operated	Paddy	Kharif/Rabi	12	5	NA	Field capacity (Ha/hr), cost of operation (Rs./ha)		
Farm Mechanization	Wheat	Rabi	12	5	Seed	Field capacity (Ha/hr), yield,		

on - Demonstrati on of seed cum fertilizer drill for sowing of wheat						Q/ha, BC 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
Rearing of Improved Breed of bird in the Backyard for quick Income Generation	(Vanraja and Grampriya)	10	300	Distribution of chicks (Vanraja and Grampriya)	Body weight, mortality		
Demonstration of Popularization of Quail farming in Mahasamund district	Quail	10	50	Quail chicks	Body weight, mortality, FCR		

**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 (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Green Gram	50 acre	Fungicide, Bio Fertilizer,	Seed and bio fertilizer	2023-24	20 ha	25/50	
2	Sesame	75 acre	Fungicide, Bio Fertilizer,	Seed and bio fertilizer	2023-24	30 ha	40/75	
3	Chickpea	50 acre	High yielding variety and seed treatment with bio fertilizer	Seed and bio fertilizer	2023-24	20 ha	25/50	

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6		200
2	Farmers Training	10		250
3	Media coverage	6		Mass
4	Training for extension functionaries	6		50

A) ON Campus

[illegible]

[illegible]

[illegible]

B) OFF Campus

[illegible]

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	1	1							25
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)	1	1							25
b) Fruits									
Cultivation of Fruit									
Management of young plants/orchards	1	1							25
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants	1	1							25
d) Plantation crops									
e) Tuber crops									
f) Spices	2	2							50
g) Medicinal and Aromatic Plants	1	1							25
III Soil Health and Fertility Management									
Soil fertility management	1	1							25
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	1	1							25
IV Livestock Production and Management									
Dairy Management	1	1							25
Poultry Management	1	1							25
Disease Management	1	1							25

Feed management	1	1							25
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	1	1							30
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
Group dynamics	1								25
Formation and Management of SHGs	1								25
Mobilization of social capital	1								25
Entrepreneurial development of farmers/youths	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						Grand Total
				Others			Number of SC/ST			
				Male	Female	Total	Male	Female	Total	
Crop Production										
Horticulture										
Livestock production										
Plant Protection										
February		Oyster Mushroom Production	1							25
March		Insect pest management of Ragi crop	2							25
April		Paddy Mushroom Production	1							25
Nov		Insect pest of management Rabi Pulses	1							25
Dec		Training on Rodent Management	1							25
Agriculture Extension (Capacity Building and Group Dynamics)										
Jan		Income generating activities for farm women through SHGs	1							20
Jan		Nutritional Garden for nutritional security	1							20
Jan		Production technology of oilseed sesame crop	1							25
Feb		Formation of FPO and its	1							25

		management								
Feb		Entrepreneurship development through FPO	1							25
Mar		Use of ICT tools in agriculture	1							25
Apr		Production technology of Paddy straw Mushroom	1							25
Agriculture Engineering										
Feb		Post harvest management and processing of millets	1							25
Apr		Importance, operation and maintenance of farm machinery	1							25
June		Rain water harvesting and conservation	1							25
August		Post harvest management and processing of millets	1							25
Oct		Post harvest management and processing of millets	1							25
Dec		Micro irrigation system and management	1							25
Soil Science										
January		Training on Integrated Nutrient Management in Finger Millet	1							25
February		Hands on Training on production of vermi compost	1							25
March		Training on preparation of vermin wash	1							25
April		Hands on training on soil sampling	1							25
May		Training on soil treatment through	1							25

		biofertilizer								
June		Training on green manuring in Kharif paddy	1							25
Agrometerology										
Feb		Complete Information of Meghdoot app agriculture as well as weather forecast to the farmers.	1							25
Apr		Damini app technologies in agriculture	1							25
June		Weather elements in agriculture	1							25
Aug		Importance of Weather Instruments in Agriculture	1							25
Oct		Impact of Climate change in agriculture	1							25
Dec		Importance about Agro Observatory in Agriculture	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										
Horticulture										
Feb		Zero Energy Cool Chamber for Storage of vegetables .	1							25
Jun		Improved Production technology of Kharif Onion	1							25
June		Propagation of Marigold through cuttings	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	
Jun		Improved Production technology of Ginger	1							25
Jun		Turmeric Propagation through Plug Nursery technique	1							25
July		Different types of Nursery beds and their uses	1							25
July		Different types of Nursery beds and their uses	1							25
Aug		Importance of Fruit Bagging in Guava	1							25
Sept		Production technology of Marigold	1							25
Sept		Care and Maintainace of Orchards	1							25
Nov		Ridge and Furrow Method of watermelon cultivation	1							25
Oct		Cultivation of Tomato under Low cost protected structure	1							25
Every Month		Monthly workshop and Training	1							25
Livestock production										
February		Disease prevention through vaccination in cattle, buffalo, sheep, goat and poultry	1							25
March		Minimizing mortality through disease prevention and feed management in backyard poultry birds	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	
April		Prevention of mastitis in CB cows, Clean milk production and value addition	1							25
May		Feed management options for economic milk production from CB cows	1							25
June		Care and management of calves, kids and lambs to prevent mortality	1							25
July		Improved goat farming in rural youth employment generation	1							25
Aug		Management of Repeat breeding and anoestrus problems in cattle buffalo and goats	1							25
Home Science										
Plant Protection										
May		Training on Lac Production	2							25
June		Insect Pest Management of paddy	2							25
July		Insect pest management of Kharif pulse crops	1							25
Aug		Insect Pest Management of paddy	2							25
Sep		Insect pest management of Ragi crop	1							25
Oct		Insect pest management of Rabi Oilseeds	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		Post harvest management and processing of millets	1							25
Nov		Micro irrigation system and management	1							25
Agriculture Extension (Capacity Building and Group Dynamics)										
May		Income generating activities for farm women through SHGs	1							25
Jun		Leadership development in farm women	1							25
July		Nutritional security through nutritional garden	1							25
Sept		Decision making in farm women	1							25
Oct		Formation and management of FPO	1							25
Nov		Leadership development in farm women	1							25
Dec		Formation of FPO and its management	1							25
Agriculture Engineering										
Jan		Post harvest management and processing of millets	1							25
Mar		Post harvest management and processing of millets	1							25
May		Importance, operation and maintenance of farm machinery	1							25
July		Rain water harvesting and conservation	1							25
Sept		Post harvest management and processing of millets	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	
Nov		Micro irrigation system and management	1							25
Soil Science										
July		Hands on training on application of biofertilizer in pulses	1							25
August		Training on application of liquid fertilizer in cereal, pulses and oil seed crops	1							25
September		Hands on Training on preparation of Ghanjeevamrit	1							25
October		Hands on Training on preparation of Beejamrit and Jeevamrit	1							25
November		Training on soil treatment through biofertilizer	1							25
December		Training on Integrated nutrient management in Millet crops	1							25
Agrometerology										
Mar		Meghdoot app technologies in agriculture	1							25
May		AAS bulletin preparation in agriculture of District and Block Level	2							25
Jul		IntroductionClimate change in agriculture	1							25
Sep		Crop Doctor App technologies in agriculture	1							25
Nov		Different types of ICT tools in agriculture	1							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)

[illegible]

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS			
	Finger millet	C.G. Ragi-2	20.00qt.
	Kodo	C.G. Kodo-2	10.00qt.
OILSEEDS	Mustard	Giriraj / Indira Toriya	8.00qt.
	Linseed	RLC-143	3.00qt.
PULSES	Black Gram	Indira Urd Pratham	15.00qt.
VEGETABLES	Turmeric	Roma	50 qt
	Coriander	CG. Shrichandrahasini Dhaniya	1 qt
FLOWER CROPS	Marigold	Pusa Basanti	1 qt
		Pusa Narangi	1 qt
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Red Lady/Ameena	1000
	Moringa	PKM-1	30000
	Lemon	Konkan	2000
	citrus	Kagji	10000
	Pomegranate	Bhagwa	5000
	Guava	Alahabad Safeda	5000
	Karonda	Local	60000
	Custard apple	Local	2000
	Mango	Indira Nadiraj /Mallika / Amrapalli	2000
	Mango	Local	25000
	Tamarind	Local	10000
	Jamun	Local	10000
	Bael	Local	5000
	Aonla	Local	20000

	Jaickfruit	Local	20000
FOREST SPECIES			
SPICES			
VEGETABLES	Vegetable Seedlings	Tomato, Brinjal, Chilli, Cabbage, Cauliflower	100000
ORNAMENTAL CROPS			
PLANTATION CROPS			
Others (specify)	Marigold	Pusa Basanti/ Pusa Narangi	2000
	Lemon Grass	Krishna	250000
	Palmarosa	Trishna	250000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma			
2	<i>Rhizobium</i>			
3	<i>Earthworm</i>	E. Fetida		100
	<i>Compost</i>			20000
BIOFERTILIZERS				
1	Vermicompost			11000
2	NADEP			6000
3				
BIO PESTICIDES				
1	Dasparni arkl			200 L
2	Pesticides			200 L
3				

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle	Milch	Gir	6	5475
SHEEP AND GOAT	-	-	-	-
POULTRY	Meat and Egg	Japanese Quail	3000	70000 chicks
FISHERIES	Rohu, Katla, Mrigal	-	-	200
Others (Specify)	-	-	-	-

Literature to be Developed/Published

KVK News Letter

Date of start	Periodicity	Number of copies to be published
	Every three months	300

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: 6....(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	Dhansuli	Mahasamund	10 KM
2	Achola	Mahasamund	30 KM

1. No. of farm families selected per village : 40

2. No. of survey/PRA to be conducted: 1/1

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	750	750	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--→ Yes

Name of Programme	Nature of linkage

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Not Applicable	Not Applicable

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	Targeted Area/Coverage
January	Feeding management & disease control programme in livestock , Awareness program effect of climate change on agriculture	65	-
February	Training program on summer vegetables, Irrigation management in summer vegetables , Demonstration of mulching & stacking in summer vegetables	52	0.8 ha
March	Fish pond cleaning, Feeding management & disease control programme in livestock	48	2 ha
April	Practices of Summer deep ploughing, Land levelling,soil amendements, soil test based nutrient management	45	15 ha
May	Practices of soil and water conservation technique, Training program on nutrition garden	35	1 ha

June	Demonstration of green manuring, short duration pigeon pea on rice bund, Nursery raising in poly tunnel , Water saving paddy cultivation techniques- DSR & SRI	20	4 ha
July	Inputs for Integrated crop management (seed, pesticides & weedicides), incorporation of green manure in paddy field . Demonstration of Drone for application of fertilizer(Nano urea) in paddy crop.	10	3 ha
August	Training program on Insect & pest management in Paddy crop. Demonstration of Drone for application of fertilizer (Nano urea) in paddy crop. Demonstration of Drone for application of Insecticide in paddy crop	55	-
September	Plant protection training in rabi crops, improved cultivation of chilli, cauliflower, cabbage and radish. Demonstration of Drone for application of Insecticide in paddy crop.	35	1 ha
October	Training program on Mushroom cultivation , Demonstration of Drone for application of fungicides in paddy crop.	55	-
November	Practices of zero tillage technique in wheat, Improved cultivation of wheat crop	10	3 ha
December	Demonstration of lathyrus, chickpea and mustard , Importance of Bio fertilizer in cereals, oilseed & pulses crop	08	3 ha

Planning for Crop Cafeteria

Total Area of Crop cafeteria:3000 Sq m

Crop	Season	Variety	Particulars / details	Area (Sq m)
Finger millet	Kharif	C.G. Ragi-2	Duration -115-120 days, Yield-23-25 qt/ha, Dry & Blight tolerant	300
Black Gram	Kharif	Indira Urd Pratham	Duration -75-80 days, Yield-12-14 qt/ha, Yellow Mosaic & powdery mildew resistance	300
Kodo	Kharif	C.G. Kodo-2	Duration -90-95 days Yield-23-25 qt/ha, Suitable for light soil & upland	300
Turmeric	Kharif	Roma	Duration – 250-260days Yield-20.70 t/ha, Dry recovery -31% , Curcumin -9.3 % Oleoresin -13.2%, Essential Oil -4.2%	300
Turmeric	Kharif	Salem	Duration - 250days Yield-18-20 t/ha , Curcumin -4.7 %	300
Ginger	Kharif	Suprabha	Duration - 229days,Yield-16.6 t/ha ,	300
Marigold	Rabi	Pusa Narangi	Produces deep orange flowers with ruffled florets in 125-135 days after sowing. Yield- 25-30 t/ha of fresh flowers, 100-125 kg/ha of seeds	300
Marigold	Rabi	Pusa Basanti	Produces medium sized, lemon yellow flowers in 135-145 days after sowing Yield- Fresh flowers 20-25 t/ha; seed 70-100 kg/ha	300
Marigold	Rabi	Pusa Arpita	Produces medium sized, light orange flowers during mid December to mid February, Yield- 25-30 t/ha of fresh flowers	300
Natural Farming Cowpea + Maize - Wheat	Kharif and Rabi	Cowpea (Kashi kanchan) + Maize (NK-30), Wheat (Ratan)	Comparatative studies under Natural, Organic and Conventional farming	1200

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Quail Unit	Japanese Quail	369	100000chick
Dairy Unit	Cow- Gir (6 Milking, 2 Male, 12 Heifer)	213	5475 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 2023

KVK: Mainpat (Surguja)

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/ Programme Assistant	Kalpna Banjare	Computer	Information Tech.	9300-34800+(4200)	26.10.2019	26.10.2019	08982163245	SC	
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	-	Finishing stage
2	Farmers Hostel	ICAR	Work continue	350 Sqm	68.40	30.07.2021	-	Finishing stage
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	-	Finishing stage
5	Fencing	VV receipt	15.06.2021	2 km	8.0	01.06.2021	-	Completed
6	Rain Water harvesting system	NA	-	-	-	-	-	-
7	Threshing floor	NA	-	-	-	-	-	-
8	Farm godown	ICAR	Work continue	294.32 sqm	60.00	01.06.2021	294.32 sqm	Under construction

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2019	5.43809	980 hr	Good condition
Motor Cycle 2	NA	-	-	-
Bolero(Jeep)	2018	7.74890	187000	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
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
Printing (Hp)	2021	0.17500	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	15.06.2023

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, pulses and oilseeds due to suitable agro climatic condition. - Potential area for cultivation of millets and	- Non availability of high yielding improved variety of agriculture crops. - Poor soil fertility management unawareness about green Manuring, composting techniques.	- Improvement in the productivity of pulses, cereal and oilseeds. - Horizontal spread of temperate fruit (pear and peach) to the farmer's field. - Scope for promotion of natural farming and its trade at national	Erratic rainfall (Untimely and unseasonal) which causes soil loss and severe infestation of insect pest and diseases

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.	- 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.	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.	- 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, 2022- Dec., 2022)

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 (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Sitapur	Sitapur	Mangari	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	Bamlaya	Rice Mustard	Rice: Pest attack Mustard: Lack of availability HYV	IPM Seed replacement INM
4	Mainpat	Mainpat	Kot	Rice Mustard Chickpea	Rice: Pest attack Mustard: Lack of availability HYV Chickpea: wilt problem	IPM Seed replacement INM
5	Mainpat	Mainpat	Vandan	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
11	54	19 (07+12)	435 (37+432)

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
41	1850	403	31734

Seed Production (Qtl.)	Planting material (Nos.)
470	4400

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	Demonstration of improved variety of Rice	Organic farming	-	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 systems	Assessment of Litchi based Multistoried Agrihorticulture systems	-	Fruit based Agroforestry management	-	Awareness program, media	Seeds of crops
6	Seed replacement- use of high yielding varieties	Sweet potato	Low yield due to use of local and less yielding varieties	Assessment of different improved varieties of Sweet potato	-	Production technology of sweet potato	-	Awareness program, media	Vines
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	Seed Production Technology	Mustard	Low yield	Assessment of yield enhancement technologies in Mustard	-	Production technology of mustard	-	Awareness program, media	Seeds
9	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
10	Seed replacement- use of high yielding varieties	Onion	Cloudy weather, continuous drizzling which creates the problem of foliar as well as soil born disease, price of onion increase very rapidly October	Assessment for production technology for kharif onion	-	-	-	Awareness program, media	Seeds
11	Seed replacement- use of high yielding varieties	Turmeric	Low yield due to local variety	-	Demonstration on improved variety of Turmeric	-	-	Awareness program, media	Planting materials
12	Seed replacement- use of high yielding varieties	Cucumber	Low yield due to local variety	-	Demonstration on scientific cultivation of Cucumber	-	-	Awareness program, media	Seeds

13	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	-
14	Integrated crop management	Wheat	Low yield	-	Demonstration of improved variety of Wheat for late sown condition	-	-	Awareness program, media	Seeds
15	Integrated disease management	Tomato	Low yield	-	Demonstration on Bacterial wilt management in Tomato	-	-	Awareness program, media	Seed

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	02 Wheat	01 Mustard				-	-	-		03
Varietal assessment	01 Buckwheat	-	-	-	02 Cucumber Onion	-	-	-	03 Colocasia, Sweet potato, Turmeric	06
Integrated disease management	-	-	-	-	01 Tomato	-	-	-	-	01
Agroforestry / Forestry	-	-	-	02 Lac, Mahua		03 Pear Litchi	-	-	-	05
TOTAL	05	01	-	02	03	03	-	-	-	17

Details of on farm trial (OFT)

OFT-1

Crop / Enterprise	Scented Rice	
Title of on farm trial	Assessments of organic manure on production and productivity of scented Rice	
Problem diagnosed	Low yield & crop lodging	
Farmers' Practices	Traditional practice-Use of imbalance manures and fertilizers	
Details of technologies selectedfor assessment	T ₁	Use of imbalance manures and fertilizers
	T ₂	RDF through 50% FYM + 50% vermicompost
Source of technology	IGKV, Raipur	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	39000.00	
Critical input	Culture & vermicompost	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	-	

OFT-2

Crop / Enterprise	Buckwheat	
Title of on farm trial	Varietal assessment of Buckwheat crop	
Problem diagnosed	Low yield due to local variety	
Farmers' Practices	Traditional practice- Local variety	
Details of technologies selectedfor assessment	T1	Local variety
	T2	Improved variety- VL-7
Source of technology	VPKAS, Almora (U.K)	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	8000.00	
Critical input	Seed & fungicide	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	-	

OFT-3

Crop / Enterprise	Finger millet	
Title of on farm trial	Assessments of natural farming on yield of Finger millet	
Problem diagnosed	Low yield	
Farmers' Practices	Traditional method	
Details of technologies selectedfor assessment	T ₁	Traditional method
	T ₂	Line sowing + seed treatment with Beejamrit+ Ghanjeewamrit@250lit/ha+ Jeevamrit@500lit/ha twice in month and weed mulch after weeding at 20DAS and 40 DAS should be spared within the row
Source of technology	IGKV, Raipur	
Plot size	0.4 ha	
No. of farmers	05	
Total cost	4500.00	
Critical input	Seed, Jaggery & pulse flour	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	-	

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	T ₁	Sole cropping

assessment	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 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	Sweet potato	
Title of on farm trial	Assessment of different improved varieties of Sweet potato	
Problem diagnosed	Low yield due to use of local and less yielding varieties.	
Farmers' Practices	Farmer practice- local variety (Lal kanda)	
Details of technologies selectedfor assessment	T ₁	Farmer practice- local variety (Lal kanda)
	T ₂	Improved variety- Indira Madhur with recommended package of practice
	T ₃	Improved variety – Bhu Sona with recommended package of practice
Source of technology	IGKV, Raipur	
Plot size	0.1 ha	
No. of farmers	0.5	
Total cost	15000.00	
Critical input	Sweet potato vine cuttings, fungicide, 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	Mustard
Title of on farm trial	Assessment of yield enhancement technologies in Mustard
Problem diagnosed	Low yield
Farmers' Practices	Imbalance use of fertilizer & local variety (Lotni).
Details of technologies selectedfor assessment	T ₁ Imbalance use of fertilizer & local variety (Lotni).
	T ₂ Use of NPK @ 80:60:40 kg/ha & Improved variety (CG sarson).
	T ₃ Use of NPK @ 80:60:40 kg/ha and improved variety (CG sarson) + Sulphur 20kg/ha.
Source of technology	RMDCARS, Ambikapur
Plot size	0.4 ha
No. of farmers	05
Total cost	11000.00
Critical input	Seed, fungicide, micro nutrient (Sulphur) and Insecticide
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	-

OFT-9

Crop / Enterprise	Wheat
Title of on farm trial	Assessment of chemical herbicide for weed control in Wheat
Problem diagnosed	Heavy infestation of weeds in wheat
Farmers' Practices	Traditional practice- No use of weed control in wheat crop
Details of technologies selectedfor assessment	T ₁ No use of weed control in wheat crop
	T ₂ Use of Clodinafop Propargyl 15% + Metsulfuron Methyl 1% WP @ 400 g ha ⁻¹ at post emergence application
Source of technology	DWR, Jabalpur
Plot size	0.4 ha
No. of farmers	05
Total cost	Rs.11000.00
Critical input	Seed, fungicide, Herbicide and Insecticide
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	-

OFT-10

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-11

Crop / Enterprise	Onion	
Title of on farm trial	Assessment for production technology for kharif onion	
Problem diagnosed	Cloudy weather ,continuous drizzling which creates the problem of foliar as well as soil born disease , price of onion increase very rapidly October	
Farmers' Practices	<i>Kharif</i> onion for bulb is not in practice	
Details of technologies selectedfor assessment	T ₁	<i>Kharif</i> onion for bulb is not in practice
	T ₂	<i>Kharif</i> onion var. Bhima Super, Nursery raising may-June & use of Ridge –furrow system
	T ₃	<i>Kharif</i> onion var. Bhima Dark red, Nursery raising may-june & use of Ridge –furrow system
Source of technology	Directorate of Onion and Garlic Research , Pune	
Plot size	0.2 ha	
No. of farmers	04	
Total cost	Rs.12000.00	
Critical input	Seeds	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	-	

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, 2023
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-	RDF through 50% FYM + 50% vermicompost
Date of sowing:	July, 2023
Date of harvesting:	November, 2023
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, 2023
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, 2023
Date of harvesting:	December, 2023
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, 2023
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, 2023
Date of harvesting:	December, 2023
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, 2023-24
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, 2023-Maize and November, 2023- Mustard
Date of harvesting:	December, 2023 and March, 2023- 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 Litchi based Multistoried Agrihorticulture system.
Year/Season:	Kharif-Rabi, 2023-24
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, 2023-Maize and November, 2023- Mustard
Date of harvesting:	December, 2023 and March, 2023- 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	Horticulture
Title of on-farm trial:	Assessment of different improved varieties of Sweet potato.
Year/Season:	Kharif, 2023-24
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 (Lal kanda)
T2 –Recommended Practice-	Improved variety- Indira Madhur with recommended package of practice
T3 –Recommended Practice-	Improved variety – Bhu Sona with recommended package of practice
Date of sowing:	July, 2023
Date of harvesting:	December, 2023
Source of technology:	IGKV, Raipur
Characteristics of technology:	Varietal assessment – improved varieties- Indira madhur and Bhu sona
Name of Crop/Enterprises:	Sweet potato
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, 2023-24
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, 2023
Date of harvesting:	February, 2023
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	-

11 Name of Discipline	Horticulture
Title of on-farm trial:	Assessment for production technology for <i>kharif</i> onion.
Year/Season:	Kharif, 2023-24
Farming situation:	Upland to midland
Problem diagnosis:	Cloudy weather ,continuous drizzling which creates the problem of foliar as well as soil born disease , price of onion increase very rapidly October
Thematic area:	ICM
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-	<i>Kharif</i> onion for bulb is not in practice- fellow
T2 –Recommended Practice-	<i>Kharif</i> onion var. Bhima Super, Nursery raising May-June & use of Ridge –furrow system
T3 –Recommended Practice-	<i>Kharif</i> onion var. Bhima Dark red, Nursery raising May-June & use of Ridge – furrow system
Date of sowing:	July, 2023
Date of harvesting:	November, 2023
Source of technology:	Directorate of Onion and Garlic Research , Pune
Characteristics of technology:	Improved variety and planting techniques
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

8 Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of yield enhancement technologies in Mustard
Year/Season:	Rabi, 2023-24
Farming situation:	Upland
Problem diagnosis:	Low yield
Thematic area:	ICM
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 use of fertilizer & local variety (Lotni)
T2 –Recommended Practice-	Use of NPK @ 80:60:40 kg/ha & Improved variety (CG sarson).
T3 –Recommended Practice-	Use of NPK @ 80:60:40 kg/ha and improved variety (CG sarson) + Sulphur 20kg/ha.
Date of sowing:	November, 2023
Date of harvesting:	March, 2023
Source of technology:	RMDCARS, Ambikapur
Characteristics of technology:	Yield enhancement technologies in Mustard- ICM
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

9 Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of chemical herbicide for weed control in Wheat
Year/Season:	Rabi, 2023-24
Farming situation:	Upland to midland
Problem diagnosis:	Low yield due to Heavy infestation of weeds in wheat
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-	No use of weed control in wheat crop
T2 –Recommended Practice-	Use of Clodinafop Propargyl 15% + Metsulfuron Methyl 1% WP @ 400 g ha ⁻¹ at post emergence application.
Date of sowing:	November, 2023
Date of harvesting:	March, 2023
Source of technology:	DWR, Jabalpur
Characteristics of technology:	Weed management- Use of Clodinafop Propargyl 15% + Metsulfuron Methyl 1% WP @ 400 g ha ⁻¹ at post emergence application
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

10 Name of Discipline	Agroforestry/Forestry
Title of on-farm trial:	Assessment of scientific cultivation method of Lac production on Kusum
Year/Season:	Rabi, 2023-24
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	-

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-2023	05 ha	12	Plant height (cm), No. of grains panicle ⁻¹ , no. of tillers hill ⁻¹ , Yield (q ha ⁻¹)
2	Turmeric	Crop management	Improved variety (Rajendra sonali), recommended package of practice with Mancozeb 3 gm per liter of water	Seeds, & fungicide	Kharif, 2023-24	01 ha	05	Tuber growth parameters, Yield q ha ⁻¹ and B:C Ratio
3	Cucumber	Vegetable production	Fertigation, mulching with stacking	Planting material, fungicide, insecticide	Rabi,2023-24	01 ha	05	No. of fruit/plant, Yield (q/ha) and B:C ratio
4	Pear	Fruit cultivation	Improved varieties of Pear (Scent Pear) + Planting Geometry-6m x 6m (Plant x Row)	Blue copper & Insecticides	Kharif, 2023-24 (Perennial)	1.5 ha	03	Growth parameters, No. of fruits tree ⁻¹ , fruit weight and fruit yield kg tree ⁻¹
5	Wheat	Varietal Assessment	Improved variety-Kanishka, line sowing, weed management and insect pest management	Seed and herbicide	Rabi,2023-24	05 ha	12	Plant height (cm), No. of grains panicle ⁻¹ , no. of tillers hill ⁻¹ , Yield (q ha ⁻¹)
6	NTFP-Mahua	Resource conservation Technology	Safe collection through Net/plastic sheet	Net/Used Saree	Rabi,2023-24	10 Trees	05	Yield (tree ⁻¹) and economics

7	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,2023 -24	01 ha	05	No. of fruit plant ⁻¹ , Yield (q 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, 2023 to March 2024	250
2	Farmers Training	07	August, 2023 to March 2024	350
3	Media coverage	10	August, 2023 to March 2024	Mass
4	Training for extension functionaries	02	August, 2023 to March 2024	50

CLUSTER DEMONSTRATION OF OILSEED AND PULSES UNDER NFSM (2023-24)

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, 2023-24	20	50	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, 2023	20	50	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, 2023	10	25	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, 2023-24	10	25	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, 2023-24	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, 2023-24	10	25	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, 2023-24	10	25	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
8	Chickpea	Crop production	Improved seed, Line sowing, Weed Management with IPM	Seed, culture, weedicide & insecticide	Rabi, 2023-24	20	50	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
9	Groundnut	Crop production	Improved seed, Line sowing, Micronutrient application, Weed Management with IPM	Seed, culture, weedicide, sulphur & insecticide	Kharif, 2023	05	12	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
10	Sesame	Crop production	Improved seed, Line sowing, Micronutrient application, Weed	Seed, culture, weedicide, sulphur &	Kharif, 2023	10	25	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio

			Management with IPM	insecticide				
11	Niger	Crop production	Improved seed, Line sowing, Micronutrient application, Weed Management with IPM	Seed, culture, weedicide, sulphur & insecticide	Kharif, 2023	20	50	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
12	Mustard	Crop production	Improved seed, Line sowing, Micronutrient application, Weed Management with IPM	Seed, culture, weedicide, sulphur & insecticide	Rabi, 2023-24	20	50	Growth and yield attributes, Yield (q ha ⁻¹) and B: C Ratio
13	Linseed	Crop production	Improved seed, Line sowing, Micronutrient application, Weed Management with IPM	Seed, culture, weedicide, sulphur & insecticide	Rabi, 2023-24	10	25	Growth and yield attributes, Yield (q ha ⁻¹) and 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	15	August, 2023 to May 2024	750
2	Farmers Training	20	August, 2023 to May 2024	800
3	Media coverage	20	August, 2023 to May 2024	-
4	Training for extension functionaries	20	August, 2023 to May 2024	800

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	-	-	-	-	-	-	40
Resource Conservation Technologies	01	01	-	-	-	-	-	-	40
Integrated Farming	01	01	-	-	-	-	-	-	40
Water management	01	01	-	-	-	-	-	-	40
Seed production	02	01	-	-	-	-	-	-	80
Integrated Crop Management	04	04	-	-	-	-	-	-	160
Total	10	10	-	-	-	-	-	-	400
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	01	01	-	-	-	-	-	-	50
Protective cultivation (Green Houses, Shade	01	01	-	-	-	-	-	-	50

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST			Grand Total	
			Male	Female		Total	Male	Female		Total
Management										
Feed management	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	02	02	-	-		-	-	-	-	100
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	01	01	-	-		-	-	-	-	50
Income generation activities for empowerment of rural Women	01	01	-	-		-	-	-	-	50
Location specific drudgery reduction technologies	-	-	-	-		-	-	-	-	-
Women and child care	01	01	-	-		-	-	-	-	50
Total	05	05	-	-		-	-	-	-	250
VI Agril. Engineering										
Total										
VII Plant Protection										
Integrated Pest Management	03	03	-	-		-	-	-	-	150
Integrated Disease Management	-	-	-	-		-	-	-	-	-
Bio-control of pests and diseases	-	-	-	-		-	-	-	-	-
Production of bio control	-	-	-	-		-	-	-	-	-

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
workers											
TOTAL	02	02	-	-	-	-	-	-	-	-	56
(C) Extension Personnel	-	-	-	-	-	-	-	-	-	-	-
Productivity enhancement in field crops	01	01									25
Integrated Pest Management	01	01									25
Integrated Nutrient management	01	01									25
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	01	01									25
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-
Any other (Pl. Specify)	01	01									25
TOTAL	05	05	-	-	-	-	-	-	-	-	125

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	02	02	-	-	-	-	-	-	80
Resource Conservation Technologies	01	01	-	-	-	-	-	-	40
Cropping Systems	01	01	-	-	-	-	-	-	40
Crop Diversification	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-
Seed production	03	03	-	-	-	-	-	-	120
Nursery management	-	-	-	-	-	-	-	-	-
Integrated Crop Management	03	03							120

SHGs									
Mobilization of social capital	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-
XI Agro-forestry	01	01	-	-	-	-	-	-	30
XII Others (Pl. Specify)	-	-	-	-	-	-	-	-	-
TOTAL	12	12	-	-	-	-	-	-	480
(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

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

[illegible]

iii) Sponsored Training Programmes

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	

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	13	-	-	500	-	-	20	-	-	520
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
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	02	-	-	21391	-	-	500	-	-	21891
Scientific visit to farmers field	100	-	-	150	-	-	50	-	-	200
Farmers visit to KVK	50	-	-	2500	-	-	200	-	-	2700
Diagnostic visits	50	-	-	100	-	-	50	-	-	150
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	403	0	0	29926	0	0	1808	-	-	31734

Target for Production and supply of Technological products

Seed Materials

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Rice	Indira aerobic 1	200 qt
	Finger millet	CG Ragi 2	70 qt
	Wheat	Kanishka	100 qt
OILSEEDS	Linseed	RLC 133	10 qt
	Mustard	CG sarson	10 qt
PULSES	Pigeon pea	CG arhar 02	20 qt
VEGETABLES/SPICES	Turmeric	Rajendra sonali	50 qt
	Coriander	CG Dhania 1	05 qt

Planting Materials

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Guava	L-49	1000
	Citrus	Kagji lime	500
	Pear	Patharnak	200
	Papaya	H. hybrid	1000
	Drumstick	ODC-3	1000
FOREST SPECIES	Khamar	Local	500
	Bamboo	B. Balcooa	200

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIOAGENTS				
1	Trichoderma	-	01	100
2	<i>Rhizobium</i>	-	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
01.01.2023 to 31.03.2023	Quarterly	100
01.04.2023 to 31.06.2023	Quarterly	100
01.07.2023 to 30.09.2023	Quarterly	100
01.10.2023 to 31.12.2023	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

1. No. of farm families selected per village : 50

2. No. of survey/PRA to be conducted: 20

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	-	-	-

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 2023 to December 2023	Demonstration of Agri drone at farmers field	100

Planning for Crop Cafeteria**Total Area of Crop cafeteria: 400 Sq m**

Crop	Season	Variety	Particulars /details	Area (Sq m)
Rice	Kharif	Indira aerobic, Indira Sughandit, Vikram TCB, Zinco rice, MTU 1010, Indira Baranai, Jeeraphool, + Rajeshwari	Varietal performance	200
Finger millet	Kharif	Indira Ragi-01, C.G. Ragi-02 and C.G. Ragi-03	Varietal performance	200
Wheat	Rabi	CG gehu 3, CG gehu 4, Kaniska, CG 1040, CG 1044, CG 1036, CG 35, Ratan, HI 1544, HD 2932, GW 366	Varietal performance	400

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-200 kg
IFS unit	Fish cum duck farming	900	Fish- 100 kg Duck egg- 500
Cattle unit	Sahiwal breed	300	Milk- 500 ltr

KVK Mungeli

1.1 Name of the Programme Coordinator with phone & mobile No

1.2 Staff Position on (31th Dec.2022)

[illegible]

1.3 Total land with KVK (in ha): 17.38

S. No.	Item	Area (ha)
1	Under Buildings	1.89
2	Under Demonstration Units	1.10
3	Under Crops	14.00
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		Under construction
2	Farmers Hostel	ICAR	June 2023	6000		27 Dec 2020		Under construction
3	Staff Quarters (6)	-						
4	Demonstration Units (2)	DMFT	June 2023	700				Under construction
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	1346 hr	Good
Motor Cycle 2				
Bolero(Jeep)	2019	7,74,890	85000 km	Good
Other (Pl. specify)				

C) Equipment & AV aids

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

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

Sl. No.	Tentative Date
1	23 July 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	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 (mt)	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, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	9	28.1	7.5
Feb, 22	21.6	30.5	14.5
Mar, 22	2.4	35.2	19.2
Apr, 22	3.4	38.6	22.3
May, 22	12.4	44.3	27.8
Jun, 22	209.9	42.2	25.4
July, 2022	363	39.8	22.5
Aug., 2022	315	32.5	20.2
Sept., 2022	156	31.6	20.5
Oct. 2022	45	29.8	12.5
Nov. 2022	10.5	25.5	10.5
Dec. 2022	8.2	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 (2022)

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
20	80	9	45

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
73	1370	15	5000

Seed Production (Qtl.)	Planting material (Nos.)
350	10000

B. Abstract of interventions to be undertaken

S. N o.	Thrust area	Crop/ Enterpr ise	Identifie d Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Traini ng if any	Title of trainin g for extensi on person nel if any	Exten si on activiti es	Suppl y of seeds, plantin g materi als etc.
1	Improved method for sowing of Soybean.	Soybean	Yield reduced due to long duration dry spell and attack of fungus in soybean	Assessment of different crop geometry in soybean	Demonstration of high yielding variety of wheat CG-Gehu-03 under late sown situation				
2	Improved seeds for agricultural crops	Kodo	Low productio n	Assessment of line sowing on improved variety of kodo mil					
3	Improved culture practice for agricultural crops	Chick pea	Weed infestation in chickpea	Assessment of topramezone herbicide application in chickpea					
4	Improved culture practice for agricultural crops	Chickpe a – Mustard intercrop ping	Low productio n	Assessment of intercropping of mustard with chickpea crop					
5	Natural Farming	Paddy	In appropriat es use of chemical fertilizers deteriorat e the soil quality	Assessment of natural farming on paddy					
6	Natural Farming	Kodo		Assessment of natural farming on minor millets (Kodo)					
7	Natural Farming	Chickpe a		Assessment of natural farming on Chickpea					
8	Natural Farming	Wheat		Assessment of natural farming on Wheat					
9	Improved planting materials for horticultura l crops.	Turmeric		Refinement of integrated nutrient management in improved variety of turmeric					
10	Improved planting materials for horticultura l crops.	Brinjal	Low yield of local variety Kabri bhata.	Assessment of improved variety of Brinjal					
11	Improved planting materials for horticultura l crops.	Coriende r	Low yield of existing variety of coriander	Refinement of integrated nutrient management in improved variety of Coriander					
12	Improved planting materials for	China Aster	Marigold flower productio n is	Refinement of integrated nutrient management in improved variety of China Aster					

	horticultural crops.		practiced, which fetches low market price @ 10-15 Rs/kg						
13	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				
2	Integrated Disease Management	Paddy	Problem of False Smut disease in Paddy	Refinement of IDM modules for False Smut disease in Paddy					
3	Integrated Pest Management	Brinjal	Problem of fruit and shoot borer in brinjal	Assessment of IPM module against fruit and shoot borer 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
Improved seeds for agricultural crops	01	-	02	-	03	-	01	-	01	08
Integrated Disease Management	01	-	-	-	-	-	-	-	-	01
Integrated Pest Management	01	-	-	-	-	-	-	-	-	01
Natural Farming	03	-	01	-	-	-	-	-	-	04
Improved method for sowing of Soybean.	-	01	-	-	-	-	-	-	-	01
TOTAL	06	01	03		03		01		01	15

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

Crop / Enterprise	Kodo	
Title of on farm trial	Assessment of line sowing on improved variety of kodo millet	
Problem diagnosed	Low productivity due to use of poor quality of seed and broadcasting sowing	
Farmers' Practices	Poor quality of seed and broadcast sowing	
Details of technologies selectedfor assessment	T ₁	Use of improved variety (Indira Kodo-1), line sowing and spacing (25 cm row to row and 10 cm plant to plant).
	T ₂	
Source of technology	IGKV Raipur and Annamalai university Tamilnadu	
Plot size	01 Acre	
No. of farmers	04	
Total cost	5000	
Critical input	Seed and PSB culture	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of tiller/plant, Grain yield (q/ha) Net return (Rs./ha.) & B:C ratio.	

OFT-2

CST-2

Crop / Enterprise	Soybean	
Title of on farm trial	Assessment of different crop geometry in soybean	
Problem diagnosed	Use of flat bed methods and poor yields due to irregular rainfall	
Farmers' Practices	Only using Flat bed methods with line sowing system	
Details of technologies selectedfor assessment	T ₁	Comparison on Ridge and furrow
	T ₂	Broad bed furrow methods
Source of technology	IGKV, Raipur and JNKVV, Jabalpur	
Plot size	01 Acre	
No. of farmers	04	
Total cost	5000	
Critical input	Seed and trichoderma, rhizobium culture	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plant population/m2, No of pods/pant, No of seeds/pod, seed yield (q/ha) Net return (Rs./ha.) & B:C ratio.	

OFT-3

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of topramezone herbicide application in chickpea	
Problem diagnosed	Low productivity due to weed infestation	
Farmers' Practices	No herbicide application	
Details of technologies selectedfor assessment	T ₁	Topramezone 336 g/l w/v SC @ 20.6 ml a.i. /ha
	T ₂	
Source of technology	IIPR, Kanpur, 2018	
Plot size	01 Acre	
No. of farmers	04	
Total cost	5000	
Critical input	Seed and trichoderma , rhizobium culture	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plant Population/m ² , Number of pod/plant, No of seeds/ pod, Yield & B:C Ratio Yield (q/ha); Net return (Rs./ha.); B:C ratio.	

OFT-4

Crop / Enterprise	Mustard with chickpea	
Title of on farm trial	Assessment of intercropping of mustard with chickpea crop	
Problem diagnosed	Low productivity due to mixed and sole cropping	
Farmers' Practices	Sole cropping of mustard or chickpea or mixed cropping of mustard with chickpea crop	
Details of technologies selected for assessment	T ₁	Intercropping of mustard with chickpea crop (2:4) ratio
	T ₂	
Source of technology	IGKV, Raipur and JNKVV, Jabalpur	
Plot size	01 Acre	
No. of farmers	04	
Total cost	5000	
Critical input	Seed and trichoderma, rhizobium culture	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plant Population/m ² , Number of pod/plant, No of seeds/ pod, No of silique/plant, No of seed /silique Yield (q/ha); Net return (Rs./ha.); B:C ratio	

OFT-5

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, 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	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-6

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-7

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-8

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-9

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-10

CU-1-20

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 selectedfor 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-11

CP-11

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 selectedfor 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-12

Crop / Enterprise	China Aster	
Title of on farm trial	Refinement of integrated nutrient management in improved variety of China Aster	
Problem diagnosed	Low rate of existing flower crop of Marigold and improper use of fertilizer	
Farmers' Practices	Production of Marigold flower crop	
Details of technologies selected for assessment	T ₁	Arka Kamini
	T ₂	Arka Archana
Source of technology	IGKV, Raipur	
Plot size	01 Acre	
No. of farmers	04	
Total cost	2000	
Critical input	Seed	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Plant height, No. Of branches /plant, No. of flower/plant, weight of flower/plant Yield (q/ha); Net return (Rs./ha.); B:C ratio	

OFT-13

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-14

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-15

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-16

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-17

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-18

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-19

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-20

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	Agronomy
Title of on-farm trial:	Assessment of line sowing on improved variety of kodo millet
Year/Season:	Kharif-2023
Farming situation:	Rainfed
Problem diagnosis:	Low productivity due to use of poor quality of seed and broadcasting sowing
Thematic area:	Crop 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-	Poor quality of seed and broadcast sowing
T2 –Recommended Practice-	Use of improved variety (Indira kodo-1), line sowing and spacing (25 cm row to row and 10c.m plant to plant)
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV Raipur and Annamalai university Tamilnadu
Characteristics of technology:	
Name of Crop/Enterprises:	Kodo
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-2

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of different crop geometry in soybean
Year/Season:	Kharif-2023
Farming situation:	Rainfed
Problem diagnosis:	Use of flatbed methods and poor yields due to irregular rainfall
Thematic area:	Crop geometry
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-	Only using Flatbed methods with line sowing system
T2 –Recommended Practice-	Comparison on Ridge and furrow
T3- Recommended Practice-	Broad bed furrow methods
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur and JNKVV, Jabalpur
Characteristics of technology:	
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-3

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of topramezone herbicide application in chickpea
Year/Season:	Rabi-2023
Farming situation:	Irrigated
Problem diagnosis:	Low productivity due to weed infestation
Thematic area:	Chemical weed 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 herbicide
T2 –Recommended Practice-	Topramezone 336 g/l w/v SC @ 20.6 ml a.i. /ha
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IIPR, Kanpur, 2011
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-4

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of intercropping of mustard with chickpea crop
Year/Season:	Rabi-2023
Farming situation:	Irrigated
Problem diagnosis:	Low productivity due to mixed and sole cropping
Thematic area:	Crop 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-	Sole cropping of mustard or chickpea or mixed cropping of mustard with chickpea crop
T2 –Recommended Practice-	Intercropping of mustard with chickpea crop (2:4) ratio
T3- Recommended Practice-	
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur and JNKVV, Jabalpur
Characteristics of technology:	
Name of Crop/Enterprises:	Chickpea: Mustard
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-5

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-6

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-7

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-8

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-9

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-10

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-11

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-12

Name of Discipline	Horticulture
Title of on-farm trial:	Refinement of integrated nutrient management in improved variety of China Aster
Year/Season:	Kharif-2023
Farming situation:	Midland
Problem diagnosis:	Low rate of existing flower crop of Marigold 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-	Production of Marigold flower crop
T2 –Recommended Practice-	Arka Kamini
T3- Recommended Practice-	Arka Archana
Date of sowing:	-
Date of harvesting:	-
Source of technology:	IGKV, Raipur
Characteristics of technology:	
Name of Crop/Enterprises:	China Aster
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

OFT-13

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-14

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-15

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-16

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-17

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-18

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-19

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-20

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:	Coriander
Recommendations for Farmers	
Recommendations for Deptt. Personnel	
Feedback	

Information about Extension OFT:

Title	Impact assessment of CFLD among the beneficiaries of Pulses
Season & Year	2023-24
Problem identified	Lack of knowledge about specific plant protection measures & use of local/uncertified seed of Pulses
Thematic Area	Impact assessment
Farming situation	Irrigated
Name of Technology Intervention under study	Interview
Farmers Practice	Use of local/uncertified seed & poor plant protection schedule
No. of replication (Farmers)	40

Results / findings

Performance indicators/ parameters	Unit/ details
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.	

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	Wheat	Varietal evaluation	Varietal evaluation of CG Gehu-03	Seed and PSB culture	Rabi 2023	4	10	Plant Population/m ² , No of ear head/plant, Yield & B:C Ratio
2	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
3	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
4	Lathyrus	Crop production	Improved utera cultivation of lathyrus	Seed and rhizobium, trichoderma culture	Rabi 2023	5	10	Plant Population/m ² , No of ear head/plant, Yield & B:C Ratio
5	Zimikand	INM	Demonstration of integrated nutrient management in improved variety of Zimikand	Seed	Kharif 2023	0.1	02	Wt. Of corm/plant, yield (q/ha), Net return and B:C Ratio
6	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
7	Paddy	Disease Management/PLP	Management of Sheath blight & stem borer by mixed formulation of Fungicide & insecticide	Fungicides and Insecticides	Kharif 2023	4	10	Disease incidence, severity, infestation % & Economics
8	Chickpea	Integrated	Demonstration on	Trichoderma	Rabi	4	10	Disease

		Disease Management	<i>Trichoderma viride</i> for control of chickpea collar rot		2023			incidence, severity, infestation % & Economics
9	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
10	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

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	-	-	-
2	Farmers Training	05	All	135
3	Media coverage	02	-	-
4	Training for extension functionaries	01	August	25

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 (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Blackgram	NFSM-Pulses	Improved variety and package of practice	Seed, bio agents and plant protection materials	Kharif' 23	10	15	
2	Greengram				Kharif' 23	10	15	
3	Pigeonpea				Kharif' 23	20	30	
4	Chickpea				Rabi' 23	20	30	
6	Fieldpea				Rabi' 23	10	15	
7	Lentil				Rabi' 23	10	15	
8	Lathyrus				Rabi' 23	20	30	
9	Soybean				NFSM-Pulses	Kharif' 23	20	30
10	Sunflower	Kharif' 23				10	15	
11	Sesame	Kharif' 23				10	15	
12	Mustard	Rabi' 23				20	30	
13	Linseed	Rabi' 23				10	15	
14	Sunflower	Rabi' 23				10	15	

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	November & February	500
2	Farmers Training	10	June to February	200
3	Media coverage	05	-	
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	2	1	20	6	26	4	2	6	32
Resource Conservation Technologies	2	1	24	8	32	6	2	8	40
Integrated Farming	2	1	27	5	32	0	0	0	32
Crop diversification	2	1	20	6	26	0	0	0	26
Seed production	2	1	23	4	27	3	1	4	31
Integrated Crop Management	2	1	18	8	26	4	3	7	33
Total	12	12	132	37	169	17	8	25	194
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	7	1	72	23	95	21	12	33	128
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-
Total	7	1	72	23	95	21	12	33	128

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
b) Fruits									
Management of young plants/orchards	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
c) Ornamental Plants	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
e) Tuber crops	2	1	16	10	26	8	5	13	39
Total	2	1	16	10	26	8	5	13	39
f) Spices	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
Production and management technology	1	1	12	5	17	3	4	7	24
Total	1	1	12	5	17	3	4	7	24
Grand total (Horticulture)	10	1	100	38	138	32	21	43	191
III Soil Health and Fertility Management									
Soil fertility management	8	1	98	36	134	35	17	52	187
Soil and Water Conservation									
Integrated Nutrient Management	5	1	45	18	63	23	10	33	96
Production and use of organic inputs	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-
Total	13	1	143	56	197	58	27	85	283
IV Livestock Production and Management									
Dairy Management	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
V Home Science/Women empowerment									

[illegible]

[illegible]

[illegible][illegible]

I Crop Production

Weed Management	2	1	15	3	18	3	1	4	22
Resource Conservation Technologies	1	1	18	5	23	3	2	5	28
Cropping Systems	2	1	22	3	25	5	0	5	30
Crop Diversification	2	1	15	6	21	0	0		21
Integrated Farming	1	1	20	4	24	5	2	7	31
Water management	1	1	15	9	24	6	3	9	33
Seed production	1								
Nursery management									
Integrated Crop Management									
Fodder production									
Production of organic inputs	1	1	11	5	16	3	2	5	21
Total	11	7	116	35	151	25	10	35	186

II Horticulture

a) Vegetable Crops

Nursery raising	1	1	25	20	45	15	9	24	69
Export potential vegetables	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	1	1	22	15	37	11	8	19	56

b) Fruits

Cultivation of Fruit	1	1	18	12	30	12	9	21	51
Management of young plants/orchards									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									

d) Plantation crops

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										
25/07/23		Weed management	1	25	15	40	18	5	23	63
15/08/23		Resource conservation	1	32	12	44	20	8	28	72
6/9/23		Rabi crop management	1	22	11	33	23	9	22	55
Horticulture										
28/08/23		Nursery preparation	1	25	11	36	12	8	20	56
10/11/23		Value added product	1	36	9	45	19	11	30	75
Livestock production										
19/09/23		Integrated fish farming	1	26	8	34	12	4	16	50
12/11/23		Disease managements in ponds	1	28	6	34	18	3	21	55
Home Science										
Plant Protection										
12/08/23		IPM in rice	1	22	8	30	15	6	21	51
11/09/23		IDM in rice	1	21	6	27	12	4	16	43
Agriculture Extension (Capacity Building and Group Dynamics)										
15/05/23		Mushroom production	1	23	9	32	16	9	25	57
18/10/23		Trichoderma production	1	25	8	33	11	5	16	49
Soil Science										
19/07/23		Soil sampling and analysis	1	21	8	29	16	3	19	48
11/10/23		Integrated nutrient management in chickpea	1	22	6	28	12	4	16	44

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	8	80	14	94	5	2	7	85	16	101
Kisan Mela	5	80	14	94	5	2	7	85	16	101
Kisan Ghosthi	20	80	14	94	5	2	7	85	16	101
Exhibition	5	80	14	94	5	2	7	85	16	101
Film Show	5	80	14	94	5	2	7	85	16	101
Method Demonstrations	8	80	14	94	5	2	7	85	16	101
Farmers Seminar	2	80	14	94	5	2	7	85	16	101
Workshop	12	80	14	94	5	2	7	85	16	101
Group meetings	12	80	14	94	5	2	7	85	16	101
Lectures delivered as resource persons	25	80	14	94	5	2	7	85	16	101
Newspaper coverage	30	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Radio talks	20	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
TV talks	5	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Popular articles	10	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Extension Literature	8	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	60	80	14	94	5	2	7	85	16	101
Farmers visit to KVK	2000	80	14	94	5	2	7	85	16	101
Diagnostic visits	60	80	14	94	5	2	7	85	16	101
Exposure visits	7	80	14	94	5	2	7	85	16	101
Ex-trainees Sammelan	1	80	14	94	5	2	7	85	16	101
Soil health Camp	1	80	14	94	5	2	7	85	16	101
Animal Health Camp	5	80	14	94	5	2	7	85	16	101
Agri mobile clinic	-									
Soil test campaigns	-									
Farm Science Club Conveners meet	-									
Self Help Group Conveners meetings	5	80	14	94	5	2	7	85	16	101
Mahila Mandals Conveners meetings	5	80	14	94	5	2	7	85	16	101
Celebration of important days (specify)	8	80	14	94	5	2	7	85	16	101
Others (pl. specify)	-									
Total	2377	2080	364	2444	130	52	182	2210	416	2626

Target for Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	Vikram TCR	50
	Wheat	CG Gehu-03	80
OILSEEDS	Soybean	RSC-10-116	170
	Linseed	RLC-143	120
PULSES			
VEGETABLES	Coriander	CG chandrahasini dhaniya-02	20
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	Kadaknath production	Kadaknath	500	800
FISHERIES	Fish seed production	IMC	50000	100
Others (Specify)				

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

Date of start	Periodicity	Number of copies to be published
15 March	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			
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	Banki	Mungeli	03
2	Chamari	Mungeli	01
3	Tingipur	Mungeli	02
4	Palansari	Mungeli	02
5	Mohbhatta	Pathariya	55
6	Chatarkhar	Mungeli	07
7	Luniakachar	Mungeli	12
8	Chhaparwa	Lormi	100

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	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
Agriculture deptt, Horticulture, Veterinary, Distt administration, Jila panchayat, Fisheries, NRLM, NGGB, ATMA, Beej nigam	Technical advice on condition of crop, disease diagnosis and their managements

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
ATMA/NFSM	Training, Technical support

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 arming

Month	Activity details	Targeted Beneficiaries/Area/Coverage
Round the year	Awareness, Training, Demonstration	1500

Name of Flagship programmes: Agri Drone

Month	Activity details	Targeted Beneficiaries/Area/Coverage
March	Spray of weedicide/pesticides	30

Planning for Crop Cafeteria

Total Area of Crop cafeteria: 6400 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Chickpea	Rabi	RVG-201,202,203	10*8 sq m	800
Lathyrus	Rabi	Prateek, Mahateora	10*8 sq m	800
Lentil	Rabi	IPL-316,	10*8 sq m	800
Linseed	Rabi	Indira als-32, RLC-143,133, 64, MAU alsi-03	10*8 sq m	800
Field pea	Rabi	Paras, IPFD-10-12	10*8 sq m	800
Mustard	Rabi	PM-25, CG sarson-01	10*8 sq m	800
Safflower	Rabi	PBNS-12, 40, 85	10*8 sq m	800
Wheat	Rabi	GW-366, CG Gehu-03, 04, GW-273, Lok-01, Ratna	10*8 sq m	800

Details of Demonstration Unit at KVK

Demonstration Unit	Particulars /details	Area (Sq m)	Output /Production
Mushroom production unit	Mushroom spawn and seed production	1200	Mushroom spawn
Kadakhnath unit	Kadakhnath hatchery cum production unit	600	Kadakhnath bird and chicks
Fish production unit	Fish seed cum production unit	3500	Fish seed and marketable size
Shed net	Vegetable and fruit plant nursery unit	200	Nursery of various plants
Mother orchard	Mother orchard of Mango, Guava, Citrus plants, Sapota	12 acre	

ANNUAL ACTION PLAN 2023

KVK: Narayanpur

Year of sanction: 2012

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
Dr D. Das	Office	Mobile	Email
		9877496009	Dibyendudas101@gmail.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	Dr D. Das	I/C Sr. Scientist & Head	Soil Science	15600-39100 (69000 Basic)	26.09.2014	26.09.2014	9877496009		
2	Subject Matter Specialist	Shri M. K. Verma	Subject Matter Specialist	Agronomy	15600-39100 (69000 Basic)	22.09.2014	22.09.2014	9406485398		
3	Subject Matter Specialist	Shri R. R. Korram	Subject Matter Specialist	Agril. Ext.	15600-39100(56100 Basic)	23.09.2014	23.09.2014	7587402665		
4	Subject Matter Specialist		Subject Matter Specialist							
5	Subject Matter Specialist									
6	Subject Matter Specialist									
7	Subject Matter Specialist									
8	Programme Assistant									
9	Computer Programmer / Programme Assistant									
10	Farm Manager	Smt. Srishti Tiwari	Farm Manager	Agronomy	9300-	19/03/2020	19/03/2020	7999408187		
11	Assistant	Ku. Renuka Sahasi (Contractual)	AG-1		20900 Consolidated	01/03/2021	01/03/2021	8817385438		
12	Jr. Stenographer / Comp. Operator	Shri Rajesh Kumar	AG-2		18420 Consolidated	01/03/2021	01/03/2021	8085928933		
13	Driver	Shri Sundar Lal Gilhare	Driver		5200-20200	28/03/2013	28/03/2013	7587736088		
14	Driver	Mr Rajesh Kumar Sahu	Driver			01/03/2021	01/03/2021	7587092297		
15	Supporting staff	Shri G.R. Rana	Peon		11360 Consolidated	02/11/2020	02/11/2020	9406095488		
16	Supporting staff	Smt. Ramday	Peon		11360 Consolidated	10/11/2020	10/11/2020			

1.3 Total land with KVK (in 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) Allotted to CARS Narayanpur	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		272000	
Other (Pl. specify)	-			

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Projector	2012-13		

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		
2	Vertisols		
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	Rice	32600		
2	Maize	11700		
3	Black gram	5600		
4	Mustard	3500		
5	Nizer	3150		

Weather data (Jan, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	87.8	26.2	11.6
Feb, 22	0	29.1	10.8
Mar, 22	0	34.7	15.8
Apr, 22	10.5	37.8	21.6
May, 22	43.5	36.6	23.6
Jun, 22	137.5	34.1	24.3
July, 2022	405.00	28.6	18.7
Aug., 2022	500.00	29.7	15.0
Sept., 2022	184.00	30.5	17.0
Oct. 2022	43.00	30.7	11.3
Nov. 2022	0	28.8	8.4
Dec. 2022	9.5	31.5	12.0

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 (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Narayanpur	Narayanpur	Kokodi	Rice	Less area in rabi season due to lack of irrigation and fencing	Increase in cropping intensity
2	Narayanpur	Narayanpur	Garanji	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
7	49	7	65

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
19	750	331	13570

Seed Production (Qtl.)	Planting material (Nos.)
350	320000

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	Cereals	Oilseeds	Pulses	Commercial	Vegetables	Fruits	Flower	Plantation	Tuber	TOTAL

areas				Crops				crops	Crops	
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

Maize

Title of on farm trial

Assessment of maize sowing by multi crop planter

Problem diagnosed

Manual sowing is more time consuming and highly labourious

Farmers' Practices

- Manual sowing of maize

Details of technologies selectedfor assessment

T₁

T₂

- Use of multi crop planter for sowing of maize

Source of technology

IGKV, Raipur

Plot size

0.5 acre

No. of farmers

7

Total cost

7700

Critical input

Seed and multi crop planter (on hiring basis)

Performance indicators:

(i) Technical- **yield (q/ ha)**

(ii) Economic

(iii) Social – **Employment generation**

OFT-2

Crop / Enterprise	Chick pea	
Title of on farm trial	Assessment of chick pea sowing by multi crop ridge planter	
Problem diagnosed	Heavy mortality occurs due to excess moisture content because of unseasonal rainfall	
Farmers' Practices	Broadcasting of chick pea	
Details of technologies selectedfor assessment	T ₁	
	T ₂	Use of multi crop ridge planter for sowing of chick pea
Source of technology	IGKV, Raipur	
Plot size	0.5 acre	
No. of farmers	7	
Total cost	8575.00	
Critical input	Seed and multi crop ridge planter (on hiring basis)	
Performance indicators: (iv)Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation		

OFT-3

Crop / Enterprise	Chick pea		
Title of on farm trial	Assessment of chickpea cultivation under natural farming		
Problem diagnosed	High cost under conventional (chemical) farming		

Farmers' Practices	Conventional (chemical) farming	
Details of technologies selectedfor assessment	T ₁	
	T ₂	Complete package and practice of natural farming
Source of technology	IGKV, Raipur	
Plot size	0.5 acre	
No. of farmers	7	
Total cost	21000.00	
Critical input	Inputs required for preparing components of natural farming	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation		

OFT-4

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of Paddy cultivation under natural farming	
Problem diagnosed	High cost under conventional (chemical) farming	
Farmers' Practices	Conventional (chemical) farming	
Details of technologies selectedfor assessment	T ₁	
	T ₂	Complete package and practice of natural farming
Source of technology	IGKV, Raipur	
Plot size	0.5 acre	
No. of farmers	7	
Total cost	21000.00	
Critical input	Inputs required for preparing components of natural farming	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation		

OFT-5

Crop / Enterprise	Finger millet	
Title of on farm trial	Assessment of improved variety of Finger millet	
Problem diagnosed	Low yield due to use of traditional varieties	
Farmers' Practices	Use of traditional varieties	
Details of technologies selectedfor assessment	T ₁	
	T ₂	Improved variety i.e; Chhattisgarh ragi 2/Chhattisgarh ragi 3
Source of technology	IGKV, Raipur	
Plot size	0.5 acre	
No. of farmers	7	
Total cost	980.00	
Critical input	Seed	
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation		

OFT-6

Crop / Enterprise	Kutki	
Title of on farm trial	Assessment of improved variety of Kutki	
Problem diagnosed	Low yield due to use of traditional varieties	
Farmers' Practices	Use of traditional varieties	
Details of technologies selectedfor assessment	T ₁	
	T ₂	Improved variety i.e; Chhattisgarh Kutki 2/Chhattisgarh Kutki 3
Source of technology	IGKV, Raipur	
Plot size	0.5 acre	
No. of farmers	7	
Total cost	840.00	
Critical input	Seed	

Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	

OFT-7

Crop / Enterprise	Vermi-composting
Title of on farm trial	Assessment of low cost open bed vermi-composting
Problem diagnosed	High initial cost required for construction of pakka vermi-composting tank
Farmers' Practices	Vermi-composting in pakka tank
Details of technologies selected for assessment	T ₁
	T ₂ - Production of vermi-compost and warms
Source of technology	IGKV, Raipur
Plot size	100 m ²
No. of farmers	7
Total cost	18375.00
Critical input	Earthworms
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	

FT -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:

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 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	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 2022-23	10 nos.	10	Yield (kg /bag), B:C ratio
2	Mahua	NTFP	Collection of <i>Mahua</i> flowers using green shade net to prevent from soiling and saving of labour	Green shade net	Rabi-2023	10 nos.	10	Quality product and saving of labour cost
3	Tomato	Varietal replacement	Triple disease resistance tomato variety i.e; Arka Rakshak (resistant to ToLCV+BW+EB	Seed	Rabi-2022-23	5 hectare	10	No. of plant survived , yield(ton / ha); B:C ratio
4	Paddy	Weed Management	Weed management in Paddy using Pyrazosulfuron (pre-emergence) 20 g <i>a.i.</i> per ha and Bispyribac sodium (post emergence) 25 g <i>a.i.</i> per ha	Chemical (herbicide)	Kharif-2023	5 hectare	10	Weed index, weed control efficiency, yield (q/ha) and B:C ratio
5	Finger Millet	Crop production	Line transplanting of finger millet by transplanting frame/ millet planter	Iron transplanting frame	Kharif-2023	5 hectare	10	Yield (kg /ha), B:C ratio
6	Elephant foot Yam (Zimi Kand)	Horticulture	Gajendra variety of Elephant foot Yam which contains low calcium oxalate (7.8 mg/100g).	Planting material	Kharif-2023	0.1 ha	5	Yield (ton/ha); B:C ratio

7	Niger	Varietal replacement	Improved variety of Niger i.e; JNS – 9 with line sowing	Seed of Improved variety	Kharif-2023	5 hectare	10	Crop yield (q/ha.)

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	32	Around the year	1000
3	Media coverage	20	Around the year	
4	Training for extension functionaries	12	Around the year	250

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 (2023-24)

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 2023	20	50	Yield (kg /ha), B:C ratio
2	Black gram	Crop production	Improved variety,seed treatment,line sowing	Seed	Kharif 2023	20	50	Yield (kg /ha), B:C ratio
3	Chick pea	Crop Production	Improved variety,seed treatment,line sowing	Seed	Rabi 2023-24	20	50	Yield (kg /ha), B:C ratio
4	Field pea	Crop	Improved	Seed	Rabi	20	50	Yield (kg /ha), B:C ratio

		Product ion	variety,seed treatment,line sowing		2023-24			
5	Linseed	Crop Product ion	Improved variety,seed treatment,line sowing	Seed	Rabi 2023-24	20	50	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	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	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							

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST				Grand Total
			Male	Female	Total	Male	Female	Total		
Minimization of nutrient loss in processing										
Gender mainstreaming through SHGs										
Value addition										
Income generation activities for empowerment of rural Women	5	4 Day								
Location specific drudgery reduction technologies										
Women and child care										
Total	10									
VI Agril. Engineering										
Total										
VII Plant Protection										
Integrated Pest Management	5	1 Day								
Integrated Disease Management	5	1 Day								
Bio-control of pests and diseases	5	1 Day								
Production of bio control agents and bio pesticides	5	1 Day								
Total	20									
VIII Fisheries										
Integrated fish farming		1 Day								
Total										
IX Production of Inputs at site										
Vermi-compost production	10	2 Day								
Organic manures production	10	1 Day								
Total	20									
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of										

[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								

[illegible]

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	350
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	Open pit low cost vermicompost production	
2	CD	Sowing of pulses in multicrop ridge planter	
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	Seed Production, Vermicomposting
2	Rural Youth	Mushroom 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	Kokodi	Narayanpur	15
2	Guriya	Narayanpur	05

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

Name of Flagship programmes: CFLD of pulse and oilseed

Month	Activity details	Targeted Beneficiaries/Area/Coverage
January	Training	75
February	Field Day	80
June	Seed distribution and training for kharif season	100
August	Training	50
September	Field Day	60
November	Seed distribution and training for Rabi season	150

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, IGKV R-1 , Bhursi, Mahamaya, MTU-1318, Swarna, RRF-105, Zinco rice, Amrit bhog, Badshabhog, NPT HR 5051-L, Vikram– TCR, R-2223979-1-399-1 Swarna super, Jaldubi, Suresh, MTU-1010, Protozinc, Bhata HMT, Karma masuri, safri, <i>Kadamful</i> , <i>Gadakhuta</i>		300
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	3510q
Nursery	Fruit planting material (Mango, Guava, Papaya, Drumstick, Lemon, Jackfruit, etc) Vegetables - c	600	50000
Poultry and hatching unit	Kadaknath breed	300	3000
Diary	Sahiwal	150	Milk – 6000 lts
Goatry	Abhujmad goat	120	-
Bater palan	Japanies quails	50	3000
Fish cum duck farming	Fish – Rahu, katla, mrigal Duck – Khaki campbell	7000	10q
Vermicomposting	30 tanks	500	500q
Mushroom cultivation	Oyster mushroom	24	
Nutritional garden	Kharif and rabi seasons	600	
Custom hiring centre	Tractors, multi crop ridge planter, seed cum fertilizer drill, zero till seed cum fertilizer drill, happy seeder, rotavator, plough	300	

ANNUAL ACTION PLAN 2023

KVK: RAIGARH (C.G.)

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	kvkraigarh@yahoo.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	Dr. B.S. Rajput	Senior Scientist and Head	Horticulture	144200-218200 & 157600	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 & 95300	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 & 78000	06/09/2012	06/09/2012	798727284	kalesh.kp2014@gmail.com	
4	Subject Matter Specialist	Shri K.D. Mahant	S.M.S.	Soil Science	67300-213100 & 78000	10/09/2012	08/06/2020	9617693819	kdm.indian77@gmail.com	
5	Subject Matter Specialist	Smt. Savita Aditya	S.M.S.	Entomology	67300-213100 & 78000	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 & 78000	24/09/2012	13/10/2021	7000130932	drcpssolanki@gmail.com	
7	Subject Matter Specialist	Dr. N.C.Banjara	S.M.S.	Horticulture	56100-177500 & 56100	08/10/2018	08/10/2018	8518868746	nanakbanjarar a14@gmail.com	
8	Programme Assistant	Vacant	-	-	-	-	-	-	-	-
9	Computer Programmer/ Programme Assistant	Shri Ashutosh Singh Shandilya	P.A.	Information Technology	43200-136500 & 50100	20/09/2012	20/09/2012	9425597394	ashutoshsingh536@yahoo.com	
10	Farm Manager	Shri N.K. Patel	Farm Manager	Agronomy	35400-112400 & 35400	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	Shri Vikash Das Mahant	Contractual Watch Man	-	11360	22/12/2021	22/12/2021	6260265078	mahantvdmahant@gmail.com	
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	20,000,00	-	-	

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	12/05/2023
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	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), Alfisol (Clay loam, heaver deep), low to medium land situation, average(1100 mm) rainfall, irrigated condition
2	AES - 2	Inceptisol soil (sandy Loam, medium shallow deep), Alfisol (Clay loam, heaver deep), low to medium land situation, irrigated condition
3	AES – 3	Inceptisol soil (sandy Loam, medium shallow deep), Alfisol (Clay loam, heaver 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
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 Rice	- High seed rate - Heavy infestation of weed - Use only Broad casting sowing method - Uncertain rainfall - No use of seed treatment	- Promotion line sown through seed cum fertilizer drill - SRI method	- Excesses use of chemical fertilizers - Use Traditional Varieties - Indiscriminate use of pesticides

AES-2 (name): Rice –wheat based cropping system

Strength	Weakness	Opportunities	Threats
Short duration and HYV of cereals	- High seed rate - Heavy infestation of weed - High temperature - Uncertain rainfall	Promotion line sown through seed cum fertilizer drill	- High use of chemical fertilizers - Indiscriminate use of pesticides

AES-3 (name): Rice –mustard based cropping system

Strength	Weakness	Opportunities	Threats
- HYV of mustard - Lees water requirement	- High seed rate - Heavy infestation of weed - Unavailability of bold seed variety - Use local variety	Promotion line sown through seed cum fertilizer drill	- High use of chemical fertilizers - Indiscriminate use of pesticides - Stray animal

AES-4 (name): Rice-groundnut based cropping system

Strength	Weakness	Opportunities	Threats
HYV of cereals and Groundnut	- High seed rate - Heavy infestation of weed	- Promotion line sown through seed cum fertilizer drill - Mechanical inter culture operation	- High use of chemical fertilizers - Indiscriminate use of pesticides - Stray animal - Drainage problem

AES-5 (name): Rice-vegetables based cropping system

Strength	Weakness	Opportunities	Threats
• HYV of vegetables • Use of grafted seedling	• Infestation of insect and disease • Heavy infestation of weed • Lack awareness of Drip irrigation and mulching system	• Seedling preparation through Pro-Tray method • Use disease resistance variety • Use of Drip and fertigation with stacking • Use of cash crop • Increase knowledge about pesticides	• Water logged condition • Indiscriminate use of pesticides • Damage by wild animals

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**Kharif Season:-**

S.No.	Name of Crop	Area (ha)	Production (Qt.)	Productivity (Q/ha)
01.	Rice	229230	4710676	20.55
02.	Black Gram	27100	153657	5.67
03.	Pigeon pea	8700	57333	6.59
04.	Groundnut	8250	91905	11.14
05.	Sesame	5100	24990	4.9
06.	Horse Gram	4500	15660	3.48
07.	Niger	1100	2156	1.96
08.	Tomato	3585	56015	190.1
09.	Brinjal	1320	21912	170.5
10.	Chilli	4558	29130	
11.	Ginger	1706	18766	163.8
12.	Turmaric	918	7860	171.9

Rabi Season:-

S.No.	Name of 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 (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	-	-	-
Feb, 22	-	-	-
Mar, 22	-	-	-
Apr, 22	-	-	-
May, 22	-	-	-
Jun, 22	-	-	-
July, 2022	-	-	-
Aug., 2022	-	-	-
Sept., 2022	-	-	-
Oct. 2022	-	-	-
Nov. 2022	-	-	-
Dec. 2022	-	-	-

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 (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Raigarh	Raigarh	Thakurpali	Rice & Mustard	High seed rate, Heavy losses of yield due to high infestation of insect	Crop production
2	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
3	Dharamjaigarh	Dharamjaigarh	Barouna kunda	Groundnut	heavy infestation of weed and local variety	Weed management
4	Pussore	Pussore	Bunga	Lathyrus	Local variety and not practice of water soluble fertilizer	Crop production
5	Tamnar	Tamnar	Badgoan, Bhaigadi	Turmeric	Lack of awareness about improved management practices and HYV varieties	Crop production
6	Raigarh	Raigarh	Kenapali	Cattle	Unavailability of round the year fodder	Animal production
7	Raigarh	Raigarh	Junwani	Poultry	High mortality and low growth due to improper feeding	Poultry production
8	Pussor	Pussor	Jhalmala	Poultry	Slow growth, Mortality due to stress during summer	Poultry production
9	Raigarh	Raigarh	Sambalpuri	Cattle	Worm infestation in cattle and goat and green fodder scarcity	Cattle management
10	Gharghoda	Gharghoda	Jarkhat, Tenda-Nawapara	Kusumi lac (Kusum tree)	Lack of knowledge about predatory insect management due to low production	Plant protection

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
12	52	17	370

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2010	65	2045

Seed Production (Qtl.)	Planting material (Nos.)
320	5000

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]

Value addition	-	-	-	01	01	-	-	-	-	02
IPM	01	01	-	-	-	-	-	-	-	02
INM	01	01	-	-	-	-	-	-	-	02
TOTAL										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
Animal production management	02	01		01				04
TOTAL								

Details of On Farm Trial (OFT)

OFT-1

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	Use of local variety (<i>Aghani madua</i>)	
Details of technologies selected for assessment	T ₁	Use of Chhattisgarh Ragi-2
	T ₂	Use of Chhattisgarh Ragi-3
Source of technology	IGKV, Raipur	
Plot size	1.6 ha	
No. of farmers	04	
Total cost	Rs. 1200/-	
Critical input	1. Seed 2. Biofertilizers (Azotobacter & PSB culture)	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield (q/ha)	

OFT-2

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	1.6 ha	
No. of farmers	04	
Total cost	Rs. 2080/-	
Critical input	Herbicides, Biofertilizers (Rhizobium & PSB culture)	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	No. of weeds/m ² , No of pods /plant, Yield (q/ha)	

OFT-3

Crop / Enterprise	Crop

Title of on farm trial	Assessment of turmeric planting materials through protray technique	
Problem diagnosed	High seed rate due to more cost of cultivation	
Farmers' Practices	Manual weeding at 45-50 DAS	
Details of technologies selected for assessment	T ₁	(T1) Turmeric bud sprouts in pro-tray with nursery medium cocopeat & vermicompost (3:1) Seed rhizomes are cut into single buds with small piece of rhizomes weight 4-6 gm. Treatment of bud sprouts (mancozeb @0.3%) for 30 min before planting Seedling will be ready within 30-40 days for planting Variety of Chhattisgarh haldi-3
	T ₂	-
Source of technology	IGKV, Raipur	
Plot size	0.02 ha & total area 0.08 (ha)	
No. of farmers	04	
Total cost	Rs. 4600/-	
Critical input	Turmeric plant	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Yield (q/ha)	

OFT-4

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	Arka Rakshak with Seed treatment by Trichoderma viride @ 10gm/kg seed and soil application along with FYM @ 250kg/ha+2.5 kg Trichoderma viride
	T ₂	Arka Samrat with Seed treatment by Trichoderma viride @ 10gm/kg seed and soil application along with FYM @ 250kg/ha+2.5 kg Trichoderma viride
Source of technology	IIHR- Bangalore, 2016	
Plot size	0.04 ha total area 0.16 ha	
No. of farmers	04	
Total cost	Rs. 2050/-	
Critical input	Tomato seed and <i>trichoderma viride</i>	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	Yield (q/ha)	

OFT- 5

Crop / Enterprise	Crop (Rice)	
Title of on farm trial	Assessment of Panicle Mite Management in Rice	
Problem diagnosed	Low yield due to heavy infestation of rice panicle mite	
Farmers' Practices	Indiscriminate application of insecticides	
Details of technologies selected for assessment	T ₁	Farmers practice
	T ₂	Application of new molecules acaricide Fenpyroximate 5EC @ 300 ml/ha + Propiconazole 25EC @ 300 ml/ha (Two application at Panicle initiation and panicle emergence stage)
Source of technology	Regional Agri. Research station A.P. 2013	
Plot size	0.4 acre	
No. of farmers	04	
Total cost	2500.00	
Critical input	Acaricide and Fungicide	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	No. of healthy grain/ no. of discolored grains/ no. of chaffy grain per panicle, yield (qt/ha) and B:C ratio	

OFT-6

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	Imidacloprid 17.8SL @ 0.5ml/lit water	
Details of technologies selected for assessment	T ₁	Farmers practice
	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	04	
Total cost	3750.00	
Critical input	Yellow sticky trap and Biopesticide	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	No. of aphid attracted per sticky trap, No. of aphid/cm top of inflorescence ' Yield q/ha., B:C ratio	

OFT -7 Soil Science

1	Enterprise	Crop Paddy
2	Title of on-farm trial	Assessment of application of Nano urea in paddy
3	Problem diagnosed	Low productivity due to low nitrogen status in the Soil, low fertilizer use efficiency and use of old traditional variety for long time
4	Farming situation	Irrigated
5	Production system and thematic area	Precision Farming
6	Farmers' practices (T ₁)	Imbalance use of fertilizer, Dose (75:46:00) NPK kg/ha, use of traditional variety , no use of foliar spray
7	Details of technologies selected for assessment/refinement Treatments	: T ₂ : Soil health card based nutrient management (50% N, 100 % P and K as basal) and For 50% N through 1 st Spray as foliar application of Nano urea @4 ml/litre of water after 30-35 DAS and 2 nd Spray at 50-55 DAS and Variety MTU-1153
8	Source of technology	CARS, Jagdalpur, IGKV, Raipur
9	No. of animals	-
10	No. of farmers	05
11	Critical input	Nano urea, seed
12	Cost of input	1000
13	Total cost	5000
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	No. of tillers/plant, Yield (q/h) & B:C ratio

OFT -8 Soil Science

1	Enterprise	Crop Paddy
2	Title of on-farm trial	Assessment of Sulphur application along with foliar spray of Nano urea in Mustard (Var.-CG Sarson)
3	Problem diagnosed	Low productivity, and less oil content due to imbalance use of fertilizers
4	Farming situation	Irrigated
5	Production system and thematic area	Nutrient Management/ Precision farming
6	Farmers' practices (T ₁)	Imbalance use of fertilizer and no use of sulphur in oilseed
7	Details of technologies selected for assessment/refinement Treatments	: T ₂ : Use of Bentonite Sulphur (90%) as basal dose@ 20 kg/ha, seed treatment with PSB and Azatobactor @ 10 gram / kg of Seed and foliar spray @ 4 ml/ litre of water at 30-35 DAS and 50-55 DAS respectively
8	Source of technology	IGKV, Raipur
9	No. of animals	-

10	No. of farmers	05
11	Critical input	Sulphur and Nano urea
12	Cost of input	1000
13	Total cost	5000
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	No. of Siliqua/plant, Yield (q/h) & B:C ratio

OFT-9

Enterprise	Enterprise
Title of on-farm trial	Assessment of Package feeding for reduction in first kidding age in goat.
Problem diagnosed	Late maturity and delay in first kidding
Farming situation	Extensive farming with no supplements
Production system and thematic area	Goat production management
Farmers' practices	Grazing with no supplements
Details of technologies selected for assessment/refinement Treatments	: T ₁ : Extensive feeding system with no supplementation : T ₂ : Package (Grazing+Deworming+Mineral mixture (10-20gm/day)+ concentrate (50-200gm/ day) feeding
Source of technology	NDVSU, Jabalpur (2020)
No. of animals	16
No. of farmers	04
Critical input	Deworming , Mineral mixture
Cost of input	1500/-
Total cost	6000/-
Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Growth, No. of animal in pregnangy, B:C ratio

OFT-10

Enterprise	Enterprise
Title of on-farm trial	Assessment of Turmeric as Growth Promoter in Poultry Diet
Problem diagnosed	Low growth, high mortality, high use of synthetic antibiotics in poultry diet leads to resistant.
Farming situation	No use of turmeric as growth promoter in poultry diet
Production system and thematic area	Poultry Production and feed management
Farmers' practices	Commercial feed with synthetic antibiotics and growth promoters
Details of technologies selected for assessment/refinement Treatments	Turmeric contain polypheniloc compounds (curcumin, demethoxycurcumin etc), supplementation of turmeric meal effectively enhanced the growth of chickens it stimulates the digestive system by promoting the intestinal lipase, maltase, and sucrose activities as well as the secretion of pancreatic amylase, lipase, chemotrypsin and trypsin.
Source of technology	Chhattisgarh Kamdhenu Vishwavidyalaya, Durg

No. of animals/birds	200
No. of farmers	04
Critical input	Turmeric powder
Cost of input	300
Total cost	1200
Performance indicators Observation to be recorded Daily Milk yield (L) Estrous cycle regularity Economics : B: C ratio Social: Farmers reaction & Feedback	Growth, mortality, B:C ratio

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:

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 varieties in finger millet
Year/Season:	Kharif -2023
Farming situation:	Rainfed
Problem diagnosis:	Low productivity due to local variety.
Thematic area:	Crop 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 local variety (<i>Aghani madua</i>)
T2 –Recommended Practice-	Use of Chhattisgarh Ragi-2
T3- Recommended Practice-	Use of Chhattisgarh Ragi-3
Date of sowing:	July
Date of harvesting:	October
Source of technology:	IGKV, Raipur
Characteristics of technology:	High Yielding Variety
Name of Crop/Enterprises:	Finger Millet
Recommendations for Farmers	Marginal and small Farmers
Recommendations for Deptt. Personnel	Department of Agriculture and Bio-technology, Raigarh
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 Weed Management in Groundnut
Year/Season:	Kharif -2023
Farming situation:	Rainfed
Problem diagnosis:	Low productivity due to heavy infestation of weeds
Thematic area:	Weed 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-	Manual weeding at 45-50 DAS
T2 –Recommended Practice-	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.
T3- Recommended Practice-	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.
Date of sowing:	July
Date of harvesting:	October
Source of technology:	DWR, Jabalpur and SKRAU, Bikaner (Rajasthan) 2021
Characteristics of technology:	Application of post emergence herbicide
Name of Crop/Enterprises:	Groundnut
Recommendations for Farmers	Marginal and small Farmers
Recommendations for Deptt. Personnel	Department of Agriculture and Bio-technology, Raigarh
Feedback	-

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

Fisheries etc)	
Title of on-farm trial:	Assessment of turmeric planting materials through pro-tray technique.
Year/Season:	Kharif -2023
Farming situation:	Rainfed
Problem diagnosis:	High seed rate due to more cost of cultivation
Thematic area:	Crop 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-	Conventional planting
T2 –Recommended Practice-	(T1) Turmeric bud sprouts in pro-tray with nursery medium cocopeat & vermicompost (3:1) Seed rhizomes are cut into single buds with small piece of rhizomes weight 4-6 gm. Treatment of bud sprouts (mancozeb @0.3%) for 30 min before planting Seedling will be ready within 30-40 days for planting Variety of Chhattisgarh haldi-3
T3- Recommended Practice-	-
Date of sowing:	June
Date of harvesting:	March
Source of technology:	IGKV, Raipur
Characteristics of technology:	Low cost production technology
Name of Crop/Enterprises:	Turmeric
Recommendations for Farmers	Marginal and small Farmers
Recommendations for Deptt. Personnel	Department of Horticulture, Raigarh
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 varietal evaluation for wilt management in tomato
Year/Season:	Rabi -2023
Farming situation:	Irrigated
Problem diagnosis:	Low yield of tomato due to high incidence of diseases
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 local variety (Pusa rubi)
T2 –Recommended Practice-	Arka Rakshak with Seed treatment by Trichoderma viride @ 10gm/kg seed and soil application along with FYM @ 250kg/ha+2.5 kg Trichoderma viride
T3- Recommended Practice-	Arka Samrat with Seed treatment by Trichoderma viride @ 10gm/kg seed and soil application along with FYM @ 250kg/ha+2.5 kg Trichoderma viride

Date of sowing:	October
Date of harvesting:	December
Source of technology:	IIHR- Bangalore, 2016
Characteristics of technology:	Triple disease resistant
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	Marginal and small Farmers
Recommendations for Deptt. Personnel	Department of Horticulture, Raigarh
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 Panicle Mite Management in Rice.
Year/Season:	2023/Kharif
Farming situation:	Rainfed
Problem diagnosis:	Low yield due to heavy infestation of rice panicle mite
Thematic area:	Plant protection
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 application of insecticides
T2 –Recommended Practice-	Application of new molecules acaricide Fenpyroximate 5EC @ 300 ml/ha + Propiconazole 25EC @ 300 ml/ha (Two application at Panicle initiation and panicle emergence stage)
T3- Recommended Practice-	
Date of sowing:	June-July
Date of harvesting:	November
Source of technology:	Regional Agri. Research station A.P. 2013
Characteristics of technology:	Chemical control
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 Integrated pest management against Mustard Aphid.
Year/Season:	2023/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Yield loss due to infestation of mustard aphid
Thematic area:	Plant protection
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-	Imidacloprid 17.8SL @ 0.5ml/lit water
T2 –Recommended Practice-	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)
T3- Recommended Practice-	
Date of sowing:	End of November
Date of harvesting:	End of March
Source of technology:	NCIPM and IGKV, Raipur
Characteristics of technology:	Integrated pest management
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 application of Nano urea in paddy
Year/Season:	Kharif -2023
Farming situation:	Irrigated
Problem diagnosis:	Low productivity due to low nitrogen status in the Soil, low fertilizer use efficiency and use of old traditional variety for long time
Thematic area:	Precision 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-	Imbalance use of fertilizer, Dose (75:46:00) NPK kg/ha, use of traditional variety , no use of foliar spray
T2 –Recommended Practice-	Soil health card based nutrient management (50% N, 100 % P and K as basal) and For 50% N through 1 st Spray as foliar application of Nano urea @4 ml/litre of water after 30-35 DAS and 2 nd Spray at 50-55 DAS and Variety MTU-1153
T3- Recommended Practice-	-
Date of sowing:	July
Date of harvesting:	October

Source of technology:	CARS, Jagdalpur, IGKV, Raipur
Characteristics of technology:	Nano technology
Name of Crop/Enterprises:	Paddy
Recommendations for Farmers	Marginal and small Farmers
Recommendations for Deptt. Personnel	Department of Agriculture , Raigarh
Feedback	The technology is very use full, economic and efficient and easily adoptable

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 Sulphur application along with foliar spray of Nano urea in Mustard (Var.-CG Sarson)
Year/Season:	Rabi -2023
Farming situation:	Irrigated
Problem diagnosis:	Low productivity, and less oil content due to imbalance use of fertilizers
Thematic area:	Nutrient Management/ Precision 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-	Imbalance use of fertilizer and no use of sulphur in oilseed
T2 –Recommended Practice-	Use of Bentonite Sulphur (90%) as basal dose@ 20 kg/ha, seed treatment with PSB and Azatobactor @ 10 gram / kg of Seed and foliar spray @ 4 ml/ litre of water at 30-35 DAS and 50-55 DAS respectively
T3- Recommended Practice-	-
Date of sowing:	october
Date of harvesting:	March
Source of technology:	IGKV, Raipur
Characteristics of technology:	Sulphur is essential for oilseed crops
Name of Crop/Enterprises:	Mustard
Recommendations for Farmers	Marginal and small Farmers
Recommendations for Deptt. Personnel	Department of Agriculture , Raigarh
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 Package feeding for reduction in first kidding age in goat.
Year/Season:	Kharif -2023
Farming situation:	Rainfed

Problem diagnosis:	Late maturity and delay in first kidding
Thematic area:	Goat 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-	Grazing with no supplements
T2 –Recommended Practice-	Package (Grazing+Deworming+Mineral mixure (10-20gm/day)+ concentrate (50-200gm/ day) feeding
Date of sowing:	
Date of harvesting:	
Source of technology:	NDVSVU, Jabalpur (2020)
Characteristics of technology:	Growth, No. of animal in pregnangy
Name of Crop/Enterprises:	Goat
Recommendations for Farmers	Marginal and small Farmers
Recommendations for Deptt. Personnel	Department of Animal Husbandry, Raigarh
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 Turmeric as Growth Promoter in Poultry Diet
Year/Season:	Rabi -2023
Farming situation:	Rainfed
Problem diagnosis:	Low growth, high mortality, high use of synthetic antibiotics in poultry diet leads to resistant.
Thematic area:	Poultry Production 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-	Commercial feed with synthetic antibiotics and growth promoters
T2 –Recommended Practice-	Use of turmeric powder in feed @0.5%
T3- Recommended Practice-	Use of turmeric powder in feed @1.0%
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Chhattisgarh Kamdhenu Vishwavidyalaya, Durg
Characteristics of technology:	Growth, mortality
Name of Crop/Enterprises:	Poultry
Recommendations for Farmers	Marginal and small Farmers
Recommendations for Deptt. Personnel	Department of Animal Husbandry, Raigarh
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:	Assessment of Finger Millets Laddu for Malnourished pre-school children
Year/Season:	2023 (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:	Millets -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	-

Title of on-farm trial:	Assessment on Processing of Turmeric Pickle Making. (Curcumin and Curcuma amada)
Year/Season:	2023 (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 -2023	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-2023	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	Elephant Foot Yam (Jimikan)	Tuber production	Demonstration on Elephant Foot Yam in badi cultivation. .	Tuber or corm	Kharif -2023	0.12	12	Tuber yield (g/plant), tuber yield (q/ha) and B:C ratio
4	Coriander	Varietal Demonstration	Demonstration on HYV of Coriander with improved package of practices.	Seed	Rabi-2023	0.48	12	Yield (q/ha) and B:C ratio
5	Rice	Integrated pest management	1. Use of Pheromone traps @ 25/ha after transplanting 2. Use of <i>Beauveria bassiana</i> bio-pesticide 3. Need based insecticide	Pheromone trap + lure, Bio-pesticide, Need based insecticide	Kharif -2023	4.8	12	No. of dead heart /white ear head/ m ² , yield (qt/ha) and B:C ratio
6	Kusmi 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.	Brood lac, Insecticide and Fungicide	Rabi-2023	12 tree	12	No. of <i>E. amabilis</i> / <i>P. pulveria</i> per 30cm lac stick , Yield/tree & B:C ratio
7.	Vegetable	Nutritional security	Demonstration on nutrition garden	Seed ,Seedling Sapling	2023 Year Around	0.3	12	Per capita consumption/day, anthropometric observation, yield (kg)
8.	Ginger	Income generation	Demonstration on Processing of Ginger for candy and ginger powder making.	Ginger, Sugar	Summer 2023	-	12	Net income, B:C ratio

9.	Cattle	Livestock management	Demonstration of Fenugreek (<i>Methi</i>) Seed as a Galactagogue in Cattle.	Seeds of methi(fenugreek)	Kharif, 2023	10	10	Milk production, B:C ratio
10.	Cattle	Fodder production	Demonstration on Napier and Berseem cultivation as a source of fodder for Milch Cows	Berseem seed and Napier slips	Rabi, 2023	0.5	10	Milk production, B:C ratio
11.	Finger Millets	Nutrient management	Demonstration of INM in Finger Millet	Seed, Bio-fertilizer	Kharif-2023	4.8	12	Number of pod/plant
12.	Wheat	Nutrient management	Soil Health Card (SHC) based Nutrient Management in Wheat (Var.-Hansa)	Seed, Soil testing , Biofertilizer	Rabi-2023	4.8	12	No. of panicle/q. m, Yield (q/h) & B:C ratio

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6	Kharif and rabi	300
2	Farmers Training	12	Kharif and rabi	270
3	Media coverage	6	-	mass
4	Training for extension functionaries	2	Kharif and rabi	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
Cattle	Gir, HF	10	10	Methi seeds	Milk production, B:C		
Cattle	Gir, HF, Sahiwal	10	10	Berseem, Napier	Milk production, B:C		

*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
Value addition of Ginger	-	12	12	Ginger and Sugar	B:C ratio and Net income		

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
01.	Sesame	Crop production	High yielding variety, Line sowing, seed treatment, weed, insect-pest & disease management	Seed, Azospirillum, PSB culture, insecticide and herbicide	Kharif 2023	20	50	Number of siliqua/plant, plant population/m ² , yield (q/h) & B:C ratio
02.	Groundnut	Crop production	High yielding variety, Line sowing, seed treatment, weed, insect-pest & disease management	Seed, Rhizobium, Trichoderma, PSB culture, insecticide and herbicide	Kharif 2023	10	25	Number of pod/plant, plant population/m ² , yield (q/h) & B:C ratio
03.	Blackgram	Crop production	High yielding variety, Line sowing, seed treatment, weed, insect-pest & disease management	Seed, Rhizobium, Trichoderma, PSB culture, insecticide and herbicide	Kharif 2023	20	50	Number of pod/plant, plant population/m ² , yield (q/h) & B:C ratio
04.	Mustard	Crop production	High yielding variety, Line sowing, seed treatment, weed, insect-pest & disease management	Seed, Azospirillum, PSB culture, insecticide and herbicide	Rabi 2023-24	30	75	Number of siliqua/plant, plant population/m ² , yield (q/h) & B:C ratio
05.	Blackgram	Crop production	High yielding variety, Line sowing, seed treatment, weed, insect-pest & disease management	Seed, Rhizobium, Trichoderma, PSB culture, insecticide and herbicide	Summer 2023-24	10	25	Number of pod/plant, plant population/m ² , yield (q/h) & 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	05	Jan- Dec	175
2	Farmers Training	12	Jan- Dec	300
3	Media coverage	6	Jan- Dec	mass
4	Training for extension functionaries	6	Jan- Dec	150

Training (Including the sponsored and FLD training programmes):

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	
Technologies									
Integrated Farming	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-
Seed production	01	1	15	-	15	10	-	10	25
Integrated Crop Management	01	1	10	3	13	8	4	12	25
Total	03	01	32	5	37	31	7	38	75
II Horticulture									
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	01	18	11	29	15	13	28	57
b) Fruits									
Management of young plants/orchards	01	1	12	5	17	10	8	22	35
Total	01	01	12	5	17	10	8	18	35
c) Ornamental Plants	01	1	8	4	12	7	6	13	25
Total	01	01	8	4	12	7	6	13	25
d) Plantation crops	01	1	6	7	13	5	5	10	23
Total	01	01	6	7	13	5	5	10	23
e) Tuber crops	01	1	7	5	12	8	6	14	26
Total	01	01	7	5	12	8	6	14	26
f) Spices									
Production and Management technology	01	1	7	8	15	6	8	14	29
Total	01	01	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	01	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	06	06	12	07	04	11	23
Production and use of organic inputs	01	01	05	05	10	06	06	12	22
Management of Problematic soils	01	01	06	04	10	04	06	10	20

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Micro nutrient deficiency in crops	01	01	05	05	10	03	06	09	19
Nutrient Use Efficiency	01	01	05	04	09	05	06	11	20
Soil and Water Testing	01	01	04	05	09	06	07	16	25
Total	08	01	42	41	83	42	46	88	171
IV Livestock Production and Management									
Dairy Management	02	03	10	4	14	8	5	13	27
Poultry Management	02	02	8	7	15	7	8	11	30
Disease Management	03	02	15	0	15	10	0	10	25
Feed management	02	02	10	3	13	8	4	12	25
Production of quality animal products	03	02	5	10	15	11	03	14	29
Total	12	01	48	24	72	44	20	60	80
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	01	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	1	1	10	5	15	10	2	12	27

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
Management											
Bio-control of pests and diseases	1	1	15	3		18	7	1		8	26
Production of bio control agents and bio pesticides	1	1	10	2		12	10	3		13	25
Total	04	01	47	12		59	37	7		44	103
VIII Fisheries	-	-	-	-		-	-	-		-	
Integrated fish farming											
Total											
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-	-	-
Vermi-compost production											
Organic manures production											
Total											
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	38	01	235	172	407	-	212	165	-	377	784
(B) RURAL YOUTH											
Mushroom Production	1	1	0	15	-	15	0	10	-	10	25
Bee-keeping	1	1	15	0	-	15	0	10		10	25
Seed production	1	1	13	-	-	13	12	-	-	12	25
Planting material production											
Vermi-culture											
Value addition	1	1	0	15	-	15	0	10	-	10	25
Sheep and goat rearing	1	1	8	7		15	7	2	-	9	24
Para extension workers											
TOTAL	5	01	36	37	-	73	19	32	-	51	124

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
(C) Extension Personnel											
Productivity enhancement in field crops											
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	02	01	17	04	-	21	22	07	-	29	50

B) OFF Campus

[illegible]

Total	7	1	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 Houses, Shade Net etc.)	01	1	7	8	15	9	7	16	31
b) Fruits									
Cultivation of Fruit	01	1	6	7	13	8	6	14	27
Management of young plants/orchards	01	1	7	9	16	10	5	15	31
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	01	1	5	8	13	8	8	16	29
d) Plantation crops									
e) Tuber crops	01	1	8	5	13	6	6	12	25
f) Spices	01	1	6	8	14	7	8	15	29
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-
Total	07	01	47	54	101	56	50	106	207
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	06	06	12	07	0 4	11	23
Production and use of organic inputs	01	01	05	05	10	06	06	12	22
Management of Problematic soils	01	01	06	04	10	04	06	10	20
Micro nutrient deficiency in crops	01	01	05	05	10	03	06	09	18
Nutrient Use Efficiency	01	01	05	04	09	05	06	11	20
Soil and Water Testing	01	01	04	05	09	06	07	13	25
Total	08	01	42	43	85	42	46	88	173
IV Livestock Production and Management									
Dairy Management	02	03	10	4	14	8	3	11	25
Poultry Management	02	02	8	7	15	7	3	10	25
Disease Management	03	02	15	-	15	10	-	10	25
Feed management	02	02	10	3	13	8	4	12	25
Production of quality animal products	03	02	5	6	11	11	03	14	25
Total	12	02	48	20	68	44	13	57	125
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	2	1	0	15	15	0	10	10	25
Design and development of low/minimum cost	1	1	0	15	15	0	10	10	25

diet									
Designing and development for high nutrient efficiency diet	1	1	0	15	15	0	10	10	25
Minimization of nutrient loss in processing	1	1	0	15	15	0	10	10	25
Gender mainstreaming through SHGs	1	1	0	15	15	0	10	10	25
Storage loss minimization techniques									
Value addition	1	1	0	15	15	0	10	10	25
Income generation activities for empowerment of rural Women	1	2	0	15	15	0	10	10	25
Location specific drudgery reduction technologies									
Rural Crafts									
Women and child care	1	1	0	15	15	0	10	10	25
Total	9	1	0	120	120	0	80	80	200
VI Agril. Engineering	-	-	-	-	-	-	-	-	-
VII Plant Protection									
Integrated Pest Management	1	1	11	3	14	6	6	12	26
Integrated Disease Management	1	1	12	4	16	4	5	9	25
Bio-control of pests and diseases	1	1	9	6	15	7	3	10	25
Production of bio control agents and bio pesticides	1	1	10	3	13	5	8	13	26
Total	04	01	42	16	58	22	22	44	102
VIII Fisheries	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site									
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									
XI Agro-forestry									
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Production of organic inputs	1	01	12	8	20	5	0	5	25
Sheep and goat	02	01	12	02	14	11	0	11	25

i) Farmers & Farm women

1. On Campus

[illegible]

[illegible]

2. Off Campus

[illegible]

[illegible]

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	Rice	Swarn & Vikram TCR	240
	Finger Millet	CG Ragi-2	10
OILSEEDS	Mustard	C.G. Sarson -1	40
PULSES	Green gram	MH-421	20
VEGETABLES	Coriander	CG shri chandahasini dhaniya-2	8
	Onion	Bheema super & Bheem subhra	0.05
	Turmeric	CG haldi-3	0.05
FLOWER CROPS	Marigold	Pusa Bhar	0.05
	Tuberose	Vaibhav, hydrabad 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
January-March	Quarterly	500
April-June	Quarterly	500
July- September	Quarterly	500
October- December	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	VCD	Value addition	2
2	VCD	Trichoderma production	1
3	VCD	Mushroom production	1

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	PRA
2	Rural Youth	-
3	In-service personnel	line dept
4	methodology for identifying OFTs/FLDs	PRA
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	Thakurpali	Raigarh	20
2	Junwani	Raigarh	18
3	Bhaigadi & Badgaon	Tamnar	15
4	Bulaki	Pussore	22
5	Rajpur	Lailunga	85
6	Botalda	Kharsia	35
7	Gejamuda	Raigarh	16
8	Supa	Pussore	25

1. No. of farm families selected per village : 12
2. No. of survey/PRA to be conducted : 8

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	200	200	10	-
Water Samples				
Total				

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
NABARD, Pradan, Janmitram	Convergence mode

Details of linkage with ATMA / NFSM

a) Is ATMA implemented in your district Yes/No

Name of Programme	Nature of linkage
Scientist- farmers interaction	Convergence mode

Give details of programmers implemented under National Horticultural Mission

Name of Programme	Nature of linkage
Spices Seed Production	Convergence mode

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
Crop Production Technology	Line transplanting of paddy	10	3
	Foliar application Nano urea & Nano DAP in paddy	10	3
	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 cost vermin composting production technique	10
7	Demonstration of low cost 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	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 2023

KVK RAIPUR

Year of sanction: **2023**

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.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. 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	63100	06-10-2018	13-08-2019	7828044299	swatiphpath@gmail.com	
7	Subject Matter Specialist	Vacant	SMS	-	-	-	-	-	-	-
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)- 20

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	1429	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	22 May 2023

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	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, 2022- Dec., 2022)

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 (2022)

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 cumes 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		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
14	56	14	138

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
230	3450	75	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	Finger millet	
Title of on farm trial	Assessment of multi-crop thresher for threshing of finger millet	
Problem diagnosed	Loss of grains during the threshing process	
Farmers' Practices	By passing the tractor over the crop spread on the threshing floor	
Details of technologies selected for assessment	T ₁	
	T ₂	Use of multicrop thresher for finger millet threshing
Source of technology	University of Agricultural Sciences, GKVK, Bengaluru	
Plot size		
No. of farmers	04	
Total cost	Rs. 10000/- (with travel expenses)	
Critical input	Rent of thresher, seed, PP chemicals	
Performance indicators: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Blower speed, sieve size, BIS standard, Time, labour requirement, loss of grains, Threshing efficiency, cost economics	

OFT -2

1	Enterprise	Paddy
2	Title of on-farm trial	Assessment of drone technology in the cultivation of Paddy
3	Problem diagnosed	Requirement of more fertilizer and pesticides, human exposure to

		pesticides
4	Farming situation	Irrigated
5	Production system and thematic area	Precision farming
6	Farmers' practices	Spraying of chemicals manually
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : : T ₂ : Precision application of agrochemicals by Drone
8	Source of technology	Central University of Rajasthan, Bandarsindri, Ajmer and IFFCO
9	No. of animals	
10	No. of farmers	04
11	Critical input	Rent of drone, seed, fertilizer, PP chemicals
12	Cost of input	Rs. 32000/-
13	Total cost	Rs. 35000/- (with travel expenses)
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	Time required, Amount of fertilizer and PP chemicals, Cost economics

OFT -3

1	Enterprise	Paddy
2	Title of on-farm trial	Assessment of different packaging materials for safe storage of paddy seeds
3	Problem diagnosed	Increase in moisture content, reduction in germination percentage and problem of insect and pest infestation.
4	Farming situation	NA
5	Production system and thematic area	Post Harvest Technology
6	Farmers' practices	Storage of seeds in plastic bags Storage of seeds in jute bags for selling in society.
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : : T ₂ : Use of recyclable LLDPE plastic bags
8	Source of technology	Pt. Jawaharlal Nehru College of Agriculture and Research Institute, Karaikal –Puducherry
9	No. of animals	
10	No. of farmers	04
11	Critical input	Cost of plastic, jute and LLDPE bags, transportation cost
12	Cost of input	Rs. 2000/-
13	Total cost	Rs. 3000- (with travel expenses)
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	Initial moisture content, initial germination percentage, final moisture content, final germination percentage. Insect/pest infestation.

OFT -4

1	Enterprise	Paddy
2	Title of on-farm trial	Assessment of direct seeded rice sown with inclined planter/ Seed drill with lower seed rate and weed management
3	Problem diagnosed	High Seed rate with poor weed management practices
4	Farming situation	Midland

5	Production system and thematic area	Crop Production
6	Farmers' practices	Seed rate ; 100-120 kg/ha (Broadcasting) Weed Management : Bueshening operation or One hand Weeding
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : : T ₂ : Seed Rate : 40 kg/ha sowing with inclined plate planter or seed drill, Weed Management : Pre emergence application of Pretilachlor+Bensulfuron 660 g/ha followed by Bispyribac Sodium @ 20 g/ha at 25 DAS
8	Source of technology	AICRP Weed Management and FIM, IGKV, Raipur
9	No. of animals	
10	No. of farmers	04
11	Critical input	Seed Drill/ Inclined Plate planter, Seed and herbicide
12	Cost of input	2210 Per farmer (Seed, Herbicide, Seed drill cost)
13	Total cost	11,050.00 + 2000 for POL
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	Number of tillers, yield and Economics

OFT -5

1	Enterprise	Finger millet
2	Title of on-farm trial	Assessment of Sowing technique of Fingermillet sown with inclined planter/ Seed drill
3	Problem diagnosed	Low Productivity of Fingermillet due to broadcasting sowing techniques with improper management
4	Farming situation	Upand and Midland Situation
5	Production system and thematic area	Crop Production
6	Farmers' practices	Seed rate ; 20 kg/ha (Broadcasting)
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : : T ₂ : Seed Rate : 10 kg/ha sowing with inclined plate planter or seed drill with scientific management package of practices
8	Source of technology	SGCARS, Jagdalpur, IGKV, Raipur
9	No. of animals	
10	No. of farmers	05
11	Critical input	Seed Drill/ Inclined Plate planter, Seed and herbicide
12	Cost of input	1650 Per farmer (Seed, Herbicide, Seed drill cost)
13	Total cost	8,250.00 + 2000 for POL
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	Number of tillers, yield and Economics

OFT -6

1	Enterprise	Chickpea
2	Title of on-farm trial	Assessment of System of Chickpea Intensification (SCI) with Mechanised sowing method
3	Problem diagnosed	High Seed rate with poor management practices
4	Farming situation	Midland
5	Production system and thematic area	Crop Production
6	Farmers' practices	Seed rate ; 75-80 kg/ha (Broadcasting) with one nipping and rough hand weeding
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : : T ₂ : 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)
8	Source of technology	IGKV, Raipur
9	No. of animals	
10	No. of farmers	05
11	Critical input	Inclined Plate planter and Seed
12	Cost of input	3050 Per farmer (Seed and Inclined plate planter hiring cost)
13	Total cost	15,250.00 + 2000 for POL
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	Germination (%), Number of pods plant ⁻¹ , Number of tillers, yield and Economics

OFT -7

1	Enterprise	Finger millet
2	Title of on-farm trial	Evaluation of direct seeded finger millet Crop in Rabi Season for replacement of Rabi Paddy
3	Problem diagnosed	Rabi Paddy is not economical as Govt doesn't purchase rabi rice under MSP
4	Farming situation	Midland Situation
5	Production system and thematic area	Crop Production
6	Farmers' practices	Growing of rice crop
7	Details of technologies selected for assessment/refinement Treatments	: T ₁ : : T ₂ : Replacment of Rabi Paddy crop with direct seeded fingermillet
8	Source of technology	SGCARS, Jagdalpur, IGKV, Raipur
9	No. of animals	
10	No. of farmers	05
11	Critical input	Seed Drill/ Inclined Plate planter, Seed and herbicide

12	Cost of input	1650 Per farmer (Seed, Herbicide, Seed drill cost)
13	Total cost	8,250.00 + 2000 for POL
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	Number of tillers, yield and Economics

OFT -8

1	Enterprise	Enterprise – Vermicompost Super and Gobar Khad Super
2	Title of on-farm trial	Assessment of Income Generation through Manufacturing and Selling of Vermicompost Super and Gobar Khad Super
3	Problem diagnosed	Income generation through enrichment of Vermicompost Manufacturing and Selling of Vermicompost and its Byproducts
4	Farming situation	Round the year 2023
5	Production system and thematic area	Income Generation
6	Farmers' practices	Sell of Vermicompost
7	Details of technologies selected for assessment/refinement Treatments	T1 : 1 lit of Trichoderma and Psedomonas liquid mixed with 1 qtls of Vermicompost T2: 1 lit of Trichoderma and Psedomonas liquid mixed with 1 qtls of Gobar Khad
8	Source of technology	IGKV, KVK Raipur (2021)
9	No. of animals	
10	No. of farmers	05
11	Critical input	Trichoderma Liquid Biopesticide, Pseudomons Liquid Biopesticide, Vermicompost
12	Cost of input	1,260/- per trail
13	Total cost	6,300/-
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	Yield (qtl/ha), Selling Quantity (qtl), B:C Ratio

OFT -9

1	Enterprise	Finger Millet
2	Title of on-farm trial	Assessment of Application Technology for the Control Management of Blast disease of Finger millet
3	Problem diagnosed	Blast affects potential productivity of Finger Millet
4	Farming situation	Rabi- 2023
5	Production system and thematic area	Plant Disease Management
6	Farmers' practices	Use of Carbonendazim + Mancozeb @ 0.2% though Knapsack Sprayer
7	Details of technologies selected for assessment/refinement Treatments	T1: Spray of Carbonendazim + Mancozeb @ 0.2% though Knapsack Sprayer (500 g/ha) T2 : Spray of Carbonendazim + Mancozeb @ 0.2% though Drone (500

		g/ha) (First spray immediately after noticing the symptoms. Second and third sprays at flowering stage at 15 days interval to control neck and finger infection)
8	Source of technology	TNAU
9	No. of animals	
10	No. of farmers	04
11	Critical input	Carbendazim + Mancozeb fungicide, Labour cost and drone rent
12	Cost of input	1400/- per trail
13	Total cost	5600/-
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	Yield (qtl/ha), Disease Incidence (%), B:C Ratio

OFT -10

1	Enterprise	Onion
2	Title of on-farm trial	Assessment of Improved Variety of Kharif Onion
3	Problem diagnosed	No cultivation practice of Onion in Kharif season
4	Farming situation	Upland , irrigated
5	Production system and thematic area	Varietal evaluation / replacement
6	Farmers' practices	No cultivation practice in kharif season
7	Details of technologies selected for assessment/refinement Treatments	T1 :Improved variety Bhima Super with recommended package of practices. Spacing 15x10 cm, (RXP) T2 Improved variety Bhima Dark Red with recommended package of practices. Spacing 15x10 cm, (RXP)
8	Source of technology	DOGR, Nashik - Pune
9	No. of animals	
10	No. of farmers	04
11	Critical input	Seed , fungicide and biofertilizer
12	Cost of input	16000/-
13	Total cost	19000/-
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	Bulb size , yield qts/ha. B:C Ratio

OFT -11

1	Enterprise	Tomato
2	Title of on-farm trial	Assessment of foliar application of Boron in tomato variety Kanshi Aman

3	Problem diagnosed	Fruit cracking in tomato during ripening stage
4	Farming situation	Upland / Midland , Irrigated, Rabi
5	Production system and thematic area	Nutrient Management
6	Farmers' practices	No foliar spray of boron in tomato
7	Details of technologies selected for assessment/refinement Treatments	T1 : Foliar application of boron @ 0.5% with recommended package of practices. T2 : Foliar application of boron @ 0.3% with recommended package of practices
8	Source of technology	IIVR, Varanasi
9	No. of animals	
10	No. of farmers	04
11	Critical input	Seed , micronutrients and fungicide
12	Cost of input	Rs. 17,000/-
13	Total cost	Rs. 20,000/-
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	No of fruit creaking per plant , yield qts/ha. B:C Ratio

OFT -12

1	Enterprise	Fish
2	Title of on-farm trial	Assessment of vitamin mineral mixture along with conventional feed for fish production
3	Problem diagnosed	Low fish yield due to non-use of vitamin mineral mixture
4	Farming situation	Pond culture
5	Production system and thematic area	Fish Production & Management Technology
6	Farmers' practices	Use of bran- oil cake powder only and no use of multi vitamin and mineral mixture
7	Details of technologies selected for assessment/refinement Treatments	T1 : Use of bran- oil cake powder only and no use of multi vitamin and mineral premix T2 : Feeding conventional feed (rice bran, groundnut oilcake, 1:1) with vitamin-mineral premix (1-2%)
8	Source of technology	CIFA
9	No. of animals	
10	No. of farmers	12
11	Critical input	vitamin-mineral premix (1-2%) properly mix with supplementary feed
12	Cost of input	Rs. 4800/ per trail
13	Total cost	Rs.22000/-
14	Performance indicators Observation to be recorded	Yield (q/ha), Survival rate (%) & B:C ratio

	Economics : B: C ratio Social: Farmers reaction & Feedback	

OFT -13

1	Enterprise	Fish
2	Title of on-farm trial	Assessment on survival rate and growth of Tilapia in fresh water Biofloc Technology
3	Problem diagnosed	Fish culture requires larger water bodies & manpower
4	Farming situation	Tank culture
5	Production system and thematic area	Fish Production & Management Technology
6	Farmers' practices	Fish production in earthen ponds
7	Details of technologies selected for assessment/refinement Treatments	T1 : Fish production in earthen ponds T2 : Standard practice & packages of fresh water Biofloc technology
8	Source of technology	CIBA
9	No. of animals	
10	No. of farmers	03
11	Critical input	Water based probiotic
12	Cost of input	Rs. 5000/- per trail
13	Total cost	Rs. 15000/-
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	Yield (q/ha, q/tank), Survival rate (%) & B:C ratio

OFT -14

1	Enterprise	Fish
2	Title of on-farm trial	Assessment of effect of used Polypropylene (PP) Sheets for natural breeding of Gold Fish (Ornamental)
3	Problem diagnosed	Low survival rate during natural breeding by using of submerged and floating weeds
4	Farming situation	Ornamental fish production
5	Production system and thematic area	Fish Production & Management Technology
6	Farmers' practices	Natural breeding by using of submerged and floating weeds
7	Details of technologies selected for assessment/refinement Treatments	T1 : T2 : Natural breeding with use of polythene sheets
8	Source of technology	Farmers Practice in West Bengal
9	No. of animals	
10	No. of farmers	04
11	Critical input	Use of polythene sheets and Gold fishes with technology standardized at KVK Raipur

12	Cost of input	Rs. 2000/- per trail
13	Total cost	Rs. 10000/-
14	Performance indicators Observation to be recorded Economics : B: C ratio Social: Farmers reaction & Feedback	Survival rate (%) and B:C ratio

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	Crop Production	Demonstration of High yielding variety of Aromatic Paddy "Chhattisgarh Devbhog"	Rs. 1540/-	Kharif - 2023	4.0	10	No of effective tillers, Yield and Economics
2	Ragi/ Finger Millet	Crop Production	Demonstration of High yielding variety of fingermillet "Chhattisgarh Ragi-2"	Rs. 3300/-	Kharif - 2023	4.0	10	No of effective tillers, Yield and Economics
3	Linseed	Crop Production	Demonstration of High yielding variety of Linseed "RLC-164"	Rs. 16200/-	Rabi 2023	4.0	10	No of capsule/ Plant, Yield and Economics
4	Paddy	Pest Management	Demonstration of Management of Brown Plant Hopper of Rice by Metarhizium anisopliae	Rs. 5450/-	Kharif 2023	5.0	8	Yield (qtl/ha), Disease Incidence (%) and B:C ratio
5	Cowpea	Varietal Evaluation	Demonstration of Improved variety of Cowpea-var. Kanshi kanchan	26000/-	Kharif 2023	0.80	8	No, of pod per plant, Yield qts/ ha. and B:C ratio
6	Onion	Weed management	FLD on Chemical weed management of onion var. Bhima Kiran	24000/-	Rabi 2023	0.40	8	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	02	-	-
2	Farmers Training	90	Round the year	-
3	Media coverage	-	-	-
4	Training for extension functionaries	12	-	-

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
Line Sowing	Paddy-CG Devbhog	Kharif 2023	12	4.8	Rs. 12000/-	No. of plant, yield, B:C ratio	No. of plant, yield, B:C ratio	No. of plant, yield, B:C ratio
line sowing by seed	Linseed	Kharif 2023	12	4.8	Rs. 12000/-	No. of plant, yield, B:C ratio	No. of plant, yield, B:C ratio	No. of plant, yield, B:C ratio
line sowing by seed drill	Finger millet	Rabi 2023	12	4.8	Rs. 12000/	No. of plant, yield, B:C ratio	No. of plant, yield, B:C ratio	No. of plant, yield, B:C ratio
line sowing inclined plate planter	Chick Pea	Rabi 2023	12	4.8	Rs. 12000/	No. of plant, yield, B:C ratio	No. of plant, yield, B:C ratio	No. of plant, yield, 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
Demonstration of fish production through Composite fish culture system	Fingerlings of Indian Major Carps	8	-	3200 0/-	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	-
Demonstration on production of fishes through application of lime in community ponds	fish	8	-	3600 0/-	Yield (q/ha), Survival rate (%) & B:C ratio	Dose of lime @ 250-300 kg/ha, application in phased manner	-

*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 mushroom production and value addition technology to SHGs	Oyster mushroom	10	4.0	10,400/-	Yield (qtl/ha) and B:C ratio	Processing of mushroom Powder and preparation of Mushroom Achar	No Musroom Processing
Demonstration of oyster mushroom cultivation at different gauthan for self employment of SHG women's	oyster mushroom	10	4.0	10360/-	Yield (qtl/ha) and B:C ratio	Production of oyster mushroom unit at different gauthan (@ 10 kg of paddy straw with 1 kg of mushroom spawn, 125 ml formaline , 8 gm of bavistin)	Not successfully cultivate oyster mushroom and Mushroom unit not established at gauthan

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

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	6	1							
Resource Conservation Technologies	1	1							
Integrated Farming	2	1							
Water management	0	1							
Seed production	3	1							
Integrated	8	1							

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Crop Management									
Total	20	6							
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	1	1							
Protective cultivation (Green Houses, Shade Net etc.)	5	1							
Total	6	2							
b) Fruits									
Management of young plants/orchards	1	1							
Total	1	1							
c) Ornamental Plants	0	0							
Total	0	0							
d) Plantation crops	0	0							
Total	0	0							
e) Tuber crops	3	1							
Total	3	1							
f) Spices									
Production and Management technology	1	1							
Total									
g) Medicinal and Aromatic Plants	1	1							
Production and management technology									
Total									
Grand total (Horticulture)									
III Soil Health and Fertility Management									
Soil fertility management	4	1							
Soil and Water Conservation	2	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	2	1							
Soil and Water Testing	1	1							
Total	15	8							

Thematic Area	No. of Courses	Duration (Days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
IV Livestock Production and Management									
Dairy Management	0	0							
Poultry Management	0	0							
Disease Management	1	1							
Feed management	1	1							
Production of quality animal products	0	0							
Total	2	2							
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	0	0							
Design and development of low/minimum cost diet	0	0							
Designing and development for high nutrient efficiency diet	0	0							
Minimization of nutrient loss in processing	0	0							
Gender mainstreaming through SHGs	0	0							
Value addition	0								
Income generation activities for empowerment of rural Women	0	0							
Location specific drudgery reduction technologies	0	0							
Women and child care	0	0							
Total	0	0							
VI Agril. Engineering									
Total	6	1							
VII Plant Protection									
Integrated Pest Management	6	1							
Integrated Disease Management	6	1							
Bio-control of pests and diseases	4	1							
Production of bio control agents and bio pesticides	4	1							

[illegible]

B) OFF Campus

[illegible]

1. On Campus

[illegible]

[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 2023

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	Horticulture	Ph.D.	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	anjalighritlahare@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. Mohanisha Janghel	Entomology	M.Sc., Ph.D.	15600 - 39100	5/10/2018	24/04/2019	7978310652	mohanisha.janghel@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): 8.13

S. No.	Item	Area (ha)
1	Under Buildings	0.1
2	Under Demonstration Units	0.2
3	Under Crops	6.0
4	Orchard/Agro-forestry	0.33
5	Others (specify)	1.5
Total		8.13

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	10.07.2023
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	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, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	0	18.0	8.64
Feb, 22	0	28.0	11
Mar, 22	0	44.5	20.7
Apr, 22	0	45.7	26.5
May, 22	4.8	40.0	31
Jun, 22	74.8	38.0	24.95
July, 2022	290	30.0	24.0
Aug., 2022	371.1	32.0	25.0
Sept., 2022	145.5	31.0	25.0
Oct. 2022	12.7	32.0	24.0
Nov. 2022	2.5	31.0	12.0
Dec. 2022	1.0	30.0	13.0

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

Category	Population	Production	Productivity
Cattle			
Crossbred/ Indigenous		 MT.	 kg
Buffalo		 MT.	 kg
Sheep			
Crossbred/ Indigenous		 MT wool	 kg
Goats		 MT	 kg

Pigs Crossbred/ Indigenous		---	---
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 (2022)

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
16	102	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	Integrated Weed Management	Maize	Heavy loss of yield due to weed	Assessment of Integrated weed management of Maize	-	Integrated weed management in Maize crop	Integrated weed management in Maize crop	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Seed, herbicide
2	Integrated Weed Management	Wheat	Low yield due to heavy infestation of weeds	Assessment of Integrated weed management of Wheat		Integrated weed management in Wheat crop	Integrated weed management in Wheat crop	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Seed, Bio-fertilizer, herbicide
3	Varietal Evaluation	Chickpea	Low yield due to grow of less productivity variety	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
4	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
5	Varietal evaluation	Cluster Bean (Pusa Navbahar)	Commonly all farmers grown local cultivars but due to powdery mildew and leaf spot they got low yield.	Varietal evaluation of cluster bean (Pusa Navbahar) on rice bund condition during kharif.		Production technology in cluster crop	Production technology in cluster crop	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Cluster bean (Pusa Navbahar) Non branching type plant
6	Varietal	Kharif	Unavailability	Varietal		Production	Production	Awareness	Onion

	evaluation	onion (Bhima Shakti)	y of improved varieties of kharif onion.	evaluation of Kharif onion (Bhima Shakti)		n technology in onion crop	technology in onion crop	programme, Diagnostic visit, Scientist visit at Farmers field	seed (Bhima Shakti)
7	Integrated Pest Management	Rice	Major losses of soybean crop due to infestation of Defoliator & Pod borer Insects-Pest	Assessment of IPM module for management of Defoliator & Pod borer Insects-Pest of Soybean		Integrated Pest Management in Rice crop	Integrated Pest Management in Rice crop	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Insecticide
8	Integrated disease management	Banana	Severe yield loss due to heavy infestation of sigatoka spot disease	Assessment of sigatoka leaf spot disease management in banana		Integrated disease management in Banana	Integrated disease management in Banana	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Fungicide
9	Integrated Pest Management	Chickpea	Major losses due to attack of gram pod borer Helicoverpa armigera	Assessment of IPM module for management of Helicoverpa armigera in Chickpea		Integrated Pest Management in Chickpea	Integrated Pest Management in Chickpea	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	BT , Braconsp
10	Integrated Disease Management	Rice	Major losses due to attack of BLB and sheath blight in rice	Assessment of Integrated Disease Management of Bacterial Leaf Blight and sheath blight in Rice		Integrated disease management in Rice	Integrated disease management in Rice	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Insecticide and fungicide
11	Organic Farming	Rice	Rainfed areas generally transplanting done in last week of July first fortnight of August	Assessment of Organic Farming in Scented Rice		Organic Farming in Scented Rice	Organic Farming in Scented Rice	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Seed, Biofertilizer
12	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
13	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
14	Integrated nutrient management	Chickpea	Heavy yield loss due to imbalance use of	Assessment of Integrated Nutrient Management		Integrated Nutrient Management in	Integrated Nutrient Management in Chickpea.	Awareness programme, Diagnostic visit, Scientist visit at	Fertilizer, Bio-fertilizer

	ment		fertilizer	of Chickpea.		Chickpea.		Farmers field	
15	Precisio n farming	Straw	Rice straw burning after harvesting crop causes air pollution	Assessment of tractor drawn round straw baler		Post harvest managem ent	Post harvest management	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Tractor charges
16	Post harvest technolo gy	Storage Structur e	Losses due to storage	Assessment of low cost onion storage structure		Post harvest managem ent of Onion	Post harvest management of Onion	Awareness programme, Diagnostic visit, Scientist visit at Farmers field	Low cost technolo gy & design of onion storage structure
17									

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	2	-	-	-	-	-	-	-	-	2
Varietal evaluation	-	-	1	-	2	-	-	-	-	3
Crop Production	-	-	-	-	1	-	-	-	-	1
IPM	1	-	1	-	-	-	-	-	-	2
IDM	1	-	-	-	1	-	-	-	-	2
Organic Farming	1	-	-	-	-	-	-	-	-	1
Natural Farming	1	-	1	-	-	-	-	-	-	2
Precision farming	-	-	1	-	-	-	-	-	-	1
INM	-	-	1							1
Post harvest technology	1	-	-	-	-	-	-	-	-	1
TOTAL	7		5		4					16

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	Maize	
Title of on farm trial	Assessment of Integrated weed management of Maize	
Problem diagnosed	Heavy loss of yield due to weed	
Farmers' Practices	No hand weeding	
Details of technologies selected for assessment	T ₁	No hand weeding
	T ₂	Chemical weed management (Atrazine @1000g/ha at 15-20 DAS
	T ₃	1 hand weeding at 20 - 30 DAS by hand hoe
	T ₄	Earthing of soil after 1 st weeding
Source of technology	ICAR- Directorate of Weed Research, Jabalpur	
Plot size	0.40	
No. of farmers	7	
Total cost	14000	
Critical input	Seed, herbicide	
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	Wheat	
Title of on farm trial	Assessment of Integrated weed management of Wheat	
Problem diagnosed	Low yield due to heavy infestation of weeds	
Farmers' Practices	No hand weeding	
Details of technologies selected for assessment	T ₁	No hand weeding
	T ₂	Integrated Weed Management
	T ₃	Sulfosulfuron+metsulfuron@30+2g/ha at 25-30 DAS
Source of technology	ICAR- Directorate of Weed Research, Jabalpur	
Plot size	0.40	
No. of farmers	7	
Total cost	14000	
Critical input	Seed, Bio-fertilizer, herbicide	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	No. of pods/plant, weed control efficiency, plant population/sqm., yield q/ha.	

OFT-3 (Agronomy)

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of varietal evaluation of Chickpea	
Problem diagnosed	Low yield due to growth of less productivity variety	
Farmers' Practices	Use of variety ZAKI-9218	
Details of technologies selected for 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	14000	
Critical input	Seed	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	No. of pods/plant, plant population/sqm., yield q/ha.	

OFT-4 (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 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.	
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: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Disease incidence percentage, per plant yield, total yield /season ton/ha.	

OFT-5 (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: (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	Kharif onion (Bhima Shakti)	
Title of on farm trial	Varietal evaluation of Kharif onion (Bhima Shakti) .	
Problem diagnosed	Unavailability of improved varieties of kharif onion.	
Farmers' Practices	Local varieties	
Details of technologies selected for assessment	T1	Local varieties
	T2	Kharif onion (Bhima Shakti) + Weed management late kharif, Maturity: 130 days after transplanting., marketable yield : average up to 45.9 t/ha good storage capacity.
Source of technology	ICAR – DOGR PUNE	
Plot size	0.2	
No. of farmers	7	
Total cost	12000	
Critical input	Onion seed (Bhima Shakti)	
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	Yield, bulb size, weight of bulb, BC ratio	

OFT-7 (Entomology)

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of IPM module for management of Defoliator & Pod borer Insects-Pest of Soybean	
Problem diagnosed	Major losses of soybean crop due to infestation of Defoliator & Pod borer Insects-Pest	
Farmers' Practices	Indiscriminate use of insecticides	
Details of technologies selectedfor assessment	T1	Indiscriminate use of insecticides
	T2	(i) Installation of Bird Perches @ 10-12 Perches/ha (ii) Spraying of Bio Insecticide (Bt.) @ 1250 ml/ha (iii) Indoxacarb 15.8% EC @ 333 ml/ha (iv) Chlorantraniliprole 18.5% SC @ 150 ml/ha.
Source of technology	National institute of plant health management Hyderabad	
Plot size	0.40	
No. of farmers	7	
Total cost	14000	
Critical input	Insecticide	
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	No. of effective tillers/hill, grains/panicle, yield and economics	

OFT-8 (Entomology)

Crop / Enterprise	Banana	
Title of on farm trial	Assessment of sigatoka leaf spot disease management in banana	
Problem diagnosed	Severe yield loss due to heavy infestation of sigatoka spot disease	
Farmers' Practices	Removal & distraction of affected leaf	
Details of technologies selectedfor assessment	T1	Removal & distraction of affected leaf
	T2	Spray 3 times with propicanazole@1ml/ltr. water with 5 Teapol (Sticky agent) at 10-15 days interval disease start
Source of technology	NRC Trichy	
Plot size	0.40	
No. of farmers	7	
Total cost	14000	
Critical input	Fungicide	
Performance indicators: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	No. of disease infected plant (%), yield/ ha, B:C ratio	

OFT-9 (Entomology)

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of IPM module for management of <i>Helicoverpa armigera</i> in Chickpea	
Problem diagnosed	Major losses due to attack of gram pod borer <i>Helicoverpa armigera</i>	
Farmers' Practices	Indiscriminate use of insecticides	
Details of technologies selectedfor assessment	T1	Indiscriminate use of insecticides
	T2	(i) Staggered Transplanting (ii) Releasing Bracon sp. 2000 cocoon/ha (iii) Spraying of Bt @1250 ml/ha (iv) Erection of 20 bird perches/ha
Source of technology	ICAR	
Plot size	0.40	
No. of farmers	7	
Total cost	14000	
Critical input	BT , Bracon sp	
Performance indicators: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation	No. of Larvae in Per sq m, %pod damage, yield, B: C ratio	

OFT-10 (Entomology)

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of Integrated Disease Management of Bacterial Leaf Blight and sheath blight in Rice	
Problem diagnosed	Major losses due to attack of BLB and sheath blight in rice	
Farmers' Practices	Application of Phorate @ 10 kg/ha, in whorl	
Details of technologies selected for assessment	T1	Application of Phorate @ 10 kg/ha, in whorl
	T2	Bacterial leaf blight, Spray streptocycline 100 to 150 ppm solution at early root stage. Reduce nitrogen application, Sheath blight, Application of propiconazole 10.7% + tricyclazole 34.2% SE @ 500 ml/ha at Vegetative, Panicle initiation and Flowering stage.
Source of technology	ICAR-National Centre for Integrated Pest Management, Pusa Campus, New Delhi	
Plot size	0.40	
No. of farmers	7	
Total cost	20000	
Critical input	Insecticide and fungicide	
Performance indicators: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation	Disease incidence (%), yield, B: C ratio	

OFT-11 (Soil Science)

Crop / Enterprise	Rice	
Title of on farm trial	Assessment of Organic Farming in Scented Rice	
Problem diagnosed	Rainfed areas generally transplanting done in last week of July first fortnight of August	
Farmers' Practices	Staggered Transplanting	
Details of technologies selected for assessment	T1	Staggered Transplanting
	T2	Green Manuring + FYM (5.0 t/ha)+ Use of Bio fertilizer (Azotobactor+PSB)
Source of technology	DRR-2011, CUTTAK	
Plot size	0.40	
No. of farmers	7	
Total cost	14000	
Critical input	Seed, Biofertilizer	
Performance indicators: (xxxi) Technical- yield (q/ ha) (xxxii) Economic (xxxiii) Social – Employment generation	No. of effective tillers/hill, grains/panicle, yield and economics	

OFT-12 (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. Jivamreet at irrigation time or spraying of jivamreet @ 500 ltr/ ha 4. Mulching of crop residues & foliar spray of Nimastra & Bramhastra
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: (xxxiv) Technical- yield (q/ ha) (xxxv) Economic (xxxvi) Social – Employment generation	OC (%) Before sowing & after harvesting, No. of tillers/plan, Yield q/h, BC ration	

OFT-13 (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 selectedfor assessment	T1	Broadcast of Lathyrus & imbalance use of fertilizer
	T2	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
Source of technology	Gurukul Institute Kurukshetra (Haryana)	
Plot size	0.40	
No. of farmers	7	
Total cost	14000	
Critical input	Seed	
Performance indicators: (xxxvii) Technical- yield (q/ ha) (xxxviii) Economic (xxxix) Social – Employment generation	OC (%) Before sowing & after harvesting, No. of tillers/plan, Yield q/h, BC ration	

OFT-14 (Soil Science)

Crop / Enterprise	Chickpea	
Title of on farm trial	Assessment of Integrated Nutrient Management of Chickpea.	
Problem diagnosed	Heavy yield loss due to imbalance use of fertilizer	
Farmers' Practices	DAP- 80 kg and Urea- 50 kg.	
Details of technologies selectedfor assessment	T1	DAP- 80 kg and Urea- 50 kg.
	T2	Soil test value (N:P:K)+ seed treatment Rizobium+ PSB @10 gm./kg. of seed
	T2	75% RDF (NPK 20:40:20) + seed treatment Rizobium+PSB @10 gm/kg. of seed
Source of technology	IGKV, Raipur	
Plot size	0.40	
No. of farmers	7	
Total cost	14000	
Critical input	Fertilizer, Bio-fertilizer	
Performance indicators: (xl) Technical- yield (q/ ha) (xli) Economic (xlii) Social – Employment generation	No. of pod/ plant, Yield q/ha, B:C ratio	

OFT-15 (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	Soil test value (N:P:K)+ seed treatment Rizobium+ PSB @10 gm./kg. of seed
	T2	Use of tractor operated round straw baler
Source of technology	CIAE, Bhopal, IGKV, Raipur	
Plot size	0.40	
No. of farmers	2	
Total cost	5000	
Critical input	Tractor charges	
Performance indicators: (xliv) Technical- yield (q/ ha) (xlv) Economic (xlv) Social – Employment generation	Field capacity, ha/h, No. of bale per acres	

OFT-16 (Agriculture Engineering)

Crop / Enterprise	Storage Structure	
Title of on farm trial	Assessment of low cost onion storage structure	
Problem diagnosed	Losses due to storage	
Farmers' Practices	Store in jute bag and on floor	
Details of technologies selected for assessment	T1	Store in jute bag and on floor
	T2	Soil test value (N:P:K)+ seed treatment Rizobium+ PSB @10 gm./kg. of seed
	T2	Store in bamboo made structure (4 x 1.5 m x 3 m) (lxbxh) (Capacity 100 qtl.)
Source of technology	Directorate of Onion & Garlic Research, Pune	
Plot size	4 x 1.5 m x 3 m) (lxbxh) (Capacity 100 qtl.)	
No. of farmers	2	
Total cost	10000	
Critical input	Low cost technology & design of onion storage structure	
Performance indicators: (xlvii) Technical- yield (q/ ha) (xlviii) Economic (xlviii) Social – Employment generation	Storage losses, %, sprouting, %	

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 Integrated weed management of Maize
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Heavy loss of yield due to weed
Thematic area:	Integrated Weed 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-	No Hand weeding
T2 –Recommended Practice-	T2 Chemical weed management (Atrazine @1000g/ha at 15-20 DAS
T3- Recommended Practice-	T3 1 hand weeding at 20 - 30 DAS by hand hoe
	T4 Earthing of soil after 1 st weeding
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR- Directorate of Weed Research, jabalpur
Characteristics of technology:	-
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 1

Title	Assessment of Integrated weed management of Maize
Season & Year	Kharif/2023
Problem identified	Heavy loss of yield due to weed
Thematic Area	Integrated Weed Management
Farming situation	Irrigated
Name of Technology Intervention under study	T2 Chemical weed management (Atrazine @1000g/ha at 15-20 DAS T3 1 hand weeding at 20 - 30 DAS by hand hoe T4 Earthing of soil after 1 st weeding
Farmers Practice	T1 No hand weeding
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 Integrated weed management of Wheat
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to heavy infestation of weeds
Thematic area:	Integrated Weed 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-	No Hand weeding
T2 –Recommended Practice-	Integrated Weed Management
T3- Recommended Practice-	Sulfosulfuron+metsulfuron@30+2g/ha at 25-30 DAS
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR- Directorate of Weed Research, jabalpur
Characteristics of technology:	-
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 2

Title	Assessment of Integrated weed management of Wheat
Season & Year	Rabi/2023-24
Problem identified	Heavy loss of yield due to weed
Thematic Area	Integrated Weed Management
Farming situation	Irrigated
Name of Technology Intervention under study	T2 Integrated Weed Management T3 Sulfosulfuron+metsulfuron@30+2g/ha at 25-30 DAS
Farmers Practice	T1 No hand weeding
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
No. of pods/plant, weed control efficiency , plant population/sqm., yield q/ha.	

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 Chickpea
Year/Season:	2023-24/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: 3

Title	Assessment of varietal evaluation of Chickpea
Season & Year	Rabi/2023-24
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: 4

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: 4

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

Information about Extension OFT: 5

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: 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 Kharif onion (Bhima Shakti) .
Year/Season:	2023/Kharif
Farming situation:	Upland, midland and badi situation
Problem diagnosis:	Unavailability of improved varieties of kharif onion.
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-	Kharif onion (Bhima Shakti) + Weed management. late <i>kharif</i> , Maturity: 130 days after transplanting., marketable yield : average up to 45.9 t/ha, good storage capacity.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR – DOGR PUNE
Characteristics of technology:	-
Name of Crop/Enterprises:	Onion (Bhima Shakti)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 6

Title	Varietal evaluation of Kharif onion (Bhima Shakti) .
Season & Year	Khairf/2023
Problem identified	Unavailability of improved varieties of kharif onion.
Thematic Area	Varietal Evaluation
Farming situation	Irrigated
Name of Technology Intervention under study	Kharif onion (Bhima Shakti) + Weed management. late <i>kharif</i> , Maturity: 130 days after transplanting., marketable yield : average up to 45.9 t/ha, good storage capacity.
Farmers Practice	Local varieties
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
Yield , bulb size , weight of bulb, BC ratio	

Detailed Information about OFT: 7

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 IPM module for management of Defoliator & Pod borer Insects-Pest of Soybean
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Major losses of soybean crop due to infestation of Defoliator & Pod borer Insects-Pest
Thematic area:	Integrated Pest 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-	Indiscriminate use of insecticides
T2 –Recommended Practice-	(i) Installation of Bird Perches @ 10-12 Perches/ha (ii) Spraying of Bio Insecticide (Bt.) @ 1250 ml/ha (iii) Indoxacarb 15.8% EC @ 333 ml/ha (iv) Chlorantraniliprole 18.5% SC @ 150 ml/ha.
T3- Recommended Practice-	-
	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	National institute of plant health management Hyderabad
Characteristics of technology:	-
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 7

Title	Assessment of IPM module for management of Defoliator & Pod borer Insects-Pest of Soybean
Season & Year	Kharif/2023
Problem identified	Major losses of soybean crop due to infestation of Defoliator & Pod borer Insects-Pest
Thematic Area	Integrated Pest Management
Farming situation	Irrigated
Name of Technology Intervention under study	(i) Installation of Bird Perches @ 10-12 Perches/ha (ii) Spraying of Bio Insecticide (Bt.) @ 1250 ml/ha (iii) Indoxacarb 15.8% EC @ 333 ml/ha (iv) Chlorantraniliprole 18.5% SC @ 150 ml/ha.
Farmers Practice	Indiscriminate use of insecticides
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
No. of effective tillers/hill, grains/panicle, yield and economics	

Detailed Information about OFT: 8

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 sigatoka leaf spot disease management in banana
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Severe yield loss due to heavy infestation of sigatoka spot disease
Thematic area:	IDM
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-	Removal & distraction of affected leaf
T2 –Recommended Practice-	T2 Spray 3 times with propicanozle@1ml/ltr. water with 5 Teapol (Sticky agent) at 10-15 days interval disease start
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	NRC Trichy
Characteristics of technology:	-
Name of Crop/Enterprises:	Banana
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 8

Title	Assessment of sigatoka leaf spot disease management in banana
Season & Year	Rabi/2023-24
Problem identified	Heavy loss of yield due to weed
Thematic Area	Integrated Disease Management
Farming situation	Irrigated
Name of Technology Intervention under study	T2 Spray 3 times with propicanozle@1ml/ltr. water with 5 Teapol (Sticky agent) at 10-15 days interval disease start
Farmers Practice	Removal & distraction of affected leaf
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
No. of disease infected plant (%), yield/ ha, B:C ratio	

Detailed Information about OFT: 9

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 IPM module for management of <i>Helicoverpa armigera</i> in Chickpea
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Major losses due to attack of gram pod borer <i>Helicoverpa armigera</i>
Thematic area:	Integrated Pest 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-	Indiscriminate use of insecticides
T2 –Recommended Practice-	(i) Staggered Transplanting (ii) Releasing Bracon sp. 2000 cocoon/ha (iii) Spraying of Bt @1250 ml/ha (iv) Erection of 20 bird perches/ha
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR
Characteristics of technology:	-
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 9

Title	Assessment of IPM module for management of <i>Helicoverpa armigera</i> in Chickpea
Season & Year	Rabi/2023-24
Problem identified	Major losses due to attack of gram pod borer <i>Helicoverpa armigera</i>
Thematic Area	Integrated Pest Management
Farming situation	Irrigated
Name of Technology Intervention under study	(i) Staggered Transplanting (ii) Releasing Bracon sp. 2000 cocoon/ha (iii) Spraying of Bt @1250 ml/ha (iv) Erection of 20 bird perches/ha
Farmers Practice	Indiscriminate use of insecticides
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
No. of Larvae in Per sq m, %pod damage, yield, B: C ratio	

Detailed Information about OFT: 10

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 Integrated Disease Management of Bacterial Leaf Blight and sheath blight in Rice
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Major losses due to attack of BLB and sheath blight in rice
Thematic area:	Integrated Disease 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-	Application of Phorate @ 10 kg/ha, in whorl
T2 –Recommended Practice-	Bacterial leaf blight, Spray streptocycline 100 to 150 ppm solution at early root stage. Reduce nitrogen application, Sheath blight, Application of propiconazole 10.7% + tricyclazole 34.2% SE @ 500 ml/ha at Vegetative, Panicle initiation and Flowering stage.
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	ICAR
Characteristics of technology:	-
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 10

Title	Assessment of Integrated Disease Management of Bacterial Leaf Blight and sheath blight in Rice
Season & Year	Rabi/2023-24
Problem identified	Major losses due to attack of BLB and sheath blight in rice
Thematic Area	Integrated Disease Management
Farming situation	Irrigated
Name of Technology Intervention under study	Bacterial leaf blight, Spray streptocycline 100 to 150 ppm solution at early root stage. Reduce nitrogen application, Sheath blight, Application of propiconazole 10.7% + tricyclazole 34.2% SE @ 500 ml/ha at Vegetative, Panicle initiation and Flowering stage.
Farmers Practice	Application of Phorate @ 10 kg/ha, in whorl
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
Disease incidence (%), yield, B: C ratio	

Detailed Information about OFT: 11

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 Organic Farming in Scented Rice
Year/Season:	2023/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Rainfed areas generally transplanting done in last week of July first fortnight of August
Thematic area:	Organic 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-	Staggered Transplanting
T2 –Recommended Practice-	Green Manuring + FYM (5.0 t/ha)+ Use of Bio fertilizer (Azotobactor+PSB)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	DRR-2011, CUTTAK
Characteristics of technology:	-
Name of Crop/Enterprises:	Rice
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 11

Title	Assessment of Organic Farming in Scented Rice
Season & Year	Kharif/2023
Problem identified	Rainfed areas generally transplanting done in last week of July first fortnight of August
Thematic Area	Organic Farming
Farming situation	Irrigated
Name of Technology Intervention under study	Green Manuring + FYM (5.0 t/ha)+ Use of Bio fertilizer (Azotobactor+PSB)
Farmers Practice	Staggered Transplanting
No. of replication (Farmers)	7

Results / findings

Performance indicators/ parameters	Unit/ details
No. of effective tillers/hill, grains/panicle, yield and economics	

Detailed Information about OFT: 12

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:	2023/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.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:	Millet
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 12

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.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
OC (%) Before sowing & after harvesting, No. of tillers/plan, Yield q/h, BC ration	

Detailed Information about OFT: 13

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:	2023-24/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-	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-	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:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 13

Title	Assessment of full package of practices of natural farming in Lathyrus
Season & Year	Rabi/2023-24
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
OC (%) Before sowing & after harvesting, No. of tillers/plan, Yield q/h, BC ration	

Detailed Information about OFT: 14

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 of Chickpea.
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Heavy yield loss due to imbalance use of fertilizer
Thematic area:	Integrated 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-	DAP- 80 kg and Urea- 50 kg.
T2 –Recommended Practice-	Soil test value (N:P:K)+ seed treatment Rizobium+ PSB @10 gm./kg. of seed
T3- Recommended Practice-	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	

Information about Extension OFT: 14

Title	Assessment of Integrated Nutrient Management of Chickpea.
Season & Year	Rabi/2023-24
Problem identified	Heavy yield loss due to imbalance use of fertilizer
Thematic Area	Integrated nutrient management
Farming situation	Irrigated
Name of Technology Intervention under study	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
Farmers Practice	DAP- 80 kg and Urea- 50 kg.
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: 15

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:	2023/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: 15

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: 16

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 low cost onion storage structure
Year/Season:	2023-24/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Losses due to storage
Thematic area:	Post harvest technology
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-	Store in jute bag and on floor
T2 –Recommended Practice-	Store in bamboo made structure (4 x 1.5 m x 3 m) (lxbxh) (Capacity 100 qtl.)
T3- Recommended Practice-	-
Date of sowing:	-
Date of harvesting:	-
Source of technology:	Store in bamboo made structure (4 x 1.5 m x 3 m) (lxbxh) (Capacity 100 qtl.)
Characteristics of technology:	-
Name of Crop/Enterprises:	Onion storage structure
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Information about Extension OFT: 16

Title	Assessment of low cost onion storage structure
Season & Year	Rabi/2023-24
Problem identified	Losses due to storage
Thematic Area	Post harvest technology
Farming situation	Irrigated
Name of Technology Intervention under study	Store in bamboo made structure (4 x 1.5 m x 3 m) (lxbxh) (Capacity 100 qtl.)
Farmers Practice	Store in jute bag and on floor
No. of replication (Farmers)	2

Results / findings

Performance indicators/ parameters	Unit/ details
Storage losses, %, sprouting,%	

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	Soybean	Integrated weed management	Demonstration of Chemical weed managemnet in Soybean	Herbicide	Kharif 2023	4.85	12	No. of weeds/sqm., Yield, no. of pods/plant, B:C Ratio
2	Green Gram	Integrated Crop Management	Demonstration of higher yielding variety of Green Gram (Sikha).	Seed, bio-fertilizer	Summer 2023-24	4.85	12	Yield, B:C ratio, no. of plant/m2, no. of pods/plant
3	Banana	Insect Pest Management	Demonstration of skirting bag in Banana	Skirting bag	Kharif 2023	4.04	10	Infestation of sucking pest %, fruit quality, colour of fruit Yield, BC ratio
4	Onion	Varietal evaluation	Demonstration of onion variety Bhima Kiran	seeds	Rabi 2023-24	4.04	10	Bulb size, bulb weight, yield, BC ratio
5	Brinjal	Integrated Pest Management	Demonstration of Organic management technique for control of Shoot and Fruit Borer of Brinjal	Pheromone trap , Neem Seed Kernal Extract	Rabi 2023-24	4.04	10	No. of pest infestation /sq m, Yield q/ha, B:C Ratio
6	Chickpea	Integrated Disease Management	Demonstration of Trichoderma spp. for the management of Fusarium wilt of Chickpea	Trichoderma based vermi compost	Rabi 2023-24	4.04	10	No. of infected plant/sq m, Yield q/ha, B:C Ratio
7	Soybean	Integrated Nutrient management	Demonstration of Integrated nutrient management of Soybean.	Bio-fertilizer	Kharif 2023	4.04	10	No. of Pod / plant , Yield q/ha, B:C Ratio
8	Chickpea	Natural Farming	Demonstration of full package of practices of natural farming in Chickpea	Fertilizer. Bio-fertilizer	Rabi 2023-24	4.04	10	No. of pod / plant, no. of branch /plant, Yield, BC ratio

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 2023	10	4.04	Sowing charges	Field capacity, ha/h, plant population/sqm, tiller/plants		
Seed Drill	Soybean	Kharif 2023	10	4.04	Tractor hiring charges	Field capacity ha/h, plant population/sqm, pods/plants		

*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 (2023-24)

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 2023	20	50	-
2	Green gram			- Seed rate - 8kg - Bio fertilizer as seed treatment (Fungicide + PSB+Rhizobium)- 5ml.	Kharif 2023	20	50	-
3	Soybean			- Seed rate - 30kg - Bio fertilizer as seed treatment (Fungicide + PSB+Rhizobium)- 5ml. - Trichoderma- 0.5 kg	Kharif 2023	20	50	-
4	Pigeon pea			- Seed rate – 6 kg - Bio fertilizer as seed treatment (Fungicide + PSB+Rhizobium)- 5ml. - Trichoderma- 0.5 kg	Kharif 2023	20	50	-
5	Chickpea			- Seed rate- 30 kg - Bio fertilizer as seed treatment (Fungicide + Rhizobium + PSB)- 5 ml. - Trichoderma- 1kg.	Rabi 2024	20	50	-
7	Linseed			- Seed rate- 8kg, - Trizophos, and Bio fertilizer as seed treatment (Fungicide + PSB)	Rabi 2024	10	25	-
8	Mustard			- Seed rate - 2kg - Bio fertilizer as seed treatment (Fungicide + PSB)- 5ml/ kg seed	Rabi 2024			-
9	Green Gram			- Seed rate - 8kg - Bio fertilizer as seed treatment (Fungicide + PSB+Rhizobium)- 5ml.	Rabi 2024	20	50	-
10	Sunflower			- Seed rate - 2kg - Bio fertilizer as seed treatment (Fungicide + PSB)- 5ml	Rabi 2024	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	0		-	-	-	-	-	-	-

[illegible]

[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	3	1	-	-	-	-	-	-	-
Resource Conservation Technologies			-	-	-	-	-	-	-
Integrated Farming	1	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	1	1	-	-	-	-	-	-	-

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							
			Others			SC/ST				Grand Total
			Male	Female	Total	Male	Female	Total		
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										
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	-	-	-	-	-	-	-	-

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, 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, 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	
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 2022	500
-	April to June 2022	500
-	July to September 2022	500
-	October to December 2022	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
5			
6			
7			
8			

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 2023

KVK, Sukma

Year of sanction 2018-2019

1.1 Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Office	Mobile	Email
Hanmant singhTomar	Krishi Vigyan Kendra	9826141057,9644701057	Kvksukma2019@gmail.com,kvk.sukma@igkv.ac.in

1.2 Staff Position on (31th Dec.2022)

S. N o.	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	Program me Coordinator	H.S.Tomar	I/c SS&Head	Agronomy	15600-39100+5400	13/11/2007	12/01/2023	9826141057	Hanumanttomar18@gmail.com	
8	Program me Assistant	R.P.Kashyap	Program me Assistant	Plant Pathology	9300-34800+4200	03/12/2014	05/03/2019	9399061223	Kashyaprajendraprasad74@gmail.com	
11	Assistant	Bharti	AG-01		20900	29/12/2020	29/12/2020	7725880044	Kvksukma2019@gmail.com	
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	

1.3 Total land with KVK (in ha) 20.49

S. No.	Item	Area (ha)
1	Under Buildings including connectivity road and boundary wall etc.	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:

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 Plateau)

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, 2022- Dec., 2022)

Month /Year	Rainfall (m.m.)	Temperature (° C)	
		Maximum	Minimum
Jan, 22	1.2	28	11
Feb, 22	0.0	32	14
Mar, 22	0.0	36	18
Apr, 22	0.0	38	23
May, 22	76.7	39	25
Jun, 22	124.47	38	24
July, 2022	449.12	31	23
Aug., 2022	508.67	27	22
Sept., 2022	529.95	31	23
Oct. 2022	41.90	31	22
Nov. 2022	0	30	16
Dec. 2022	0	31	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 <i>Crossbred/ Indigenous</i>	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 (2022)

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 nutition	Improve of Income generation and value addition of rice
2			Koyabeku	Mini Rice Mill,	Too for from district head qtr.	Value addition of rice
3			Korra	Mini Rice Mill & Vegetable Production	Too far from district head qtr.,mal nutition	Value addition of rice and high quantity of vegetable Production
4			Bhandar ras	kadaknath unit	mal nutition	Improve Income generation
5			Muyapara	Bater unit	mal nutition	Improve Income

5	Chhindgarh	Chhindgarh	Pujaripal	Mini Rice mill,Zinc Rice Production Goatry Production, Vegetable Production,Net shed(Biotech Kisan),Bater Unit,Kadakhnath Unit	Too far from district head qtr.,mal nutrition	generation 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
			Urmopal	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)

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	28	04	48

Training		Extension Activities	
30		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
30	850	60	2000

Seed Production (Qtl.)	Planting material (Nos.)
50 Approx.	23000

Details of On Farm Trial (OFT)**OFT-1**

Crop/Enterprise	Rice
Title of on-farm trial	Assessment of Rice var. MTU 1153
Problem diagnosed	Low yield of rice due to more infestation of pests
Farming situation	Rainfed Midland
thematic area	Varietal Assessment
Farmers' practices T1	Cultivation of rice variety MTU – 1010
Details of tech. selected for assessment T2	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

No. of farmers - 7	Area of each trial - 0.4 ha	No. of trial - 7

Critical input	Seed, Bio-fertilizer
Performance indicators Observation to be recorded	Insect damage/m ² , Effective tiller/hill, No. Grain/panicle, Yield q/ha and B:C ratio
Cost of input	Rs. 1200/-
Total cost	Rs. 8400/-

OFT-2

Crop/Enterprise	Brinjal
Title of on-farm trial	Assessment of Brinjal var. Kasi Uttam
Problem diagnosed	Yield loss due to wilt diseases
Farming situation	Irrigated Midland
Prod. system and thematic area	Rice – Vegetable, IDM
Farmers' practices	Cultivation of private company variety
Details of tech. selected for assessment	Brinjal var. Kasi Uttam Fruit colour light purple, average weight 150 g. Very soft flesh, tolerant to wilt, Yield – 500-600 q/ha
Source of technology	IIVR, Varanasi

No. of farmers - 7	Area of each trial - 0.2ha	No. of trial - 7

Critical input	Seed
Performance indicators Observation to be recorded	Wilted plant/ m ² , Yield q/ha, B:C ratio
Cost of input	Rs. 1200/-
Total cost	Rs. 8400/-

OFT-3

Season & Year	<i>Kharif & Rabi, 2023</i>
Problem	Low income from existing farming system
Thematic Area	IFS
Name of Technology	IFS Model
Source of Technology	IGKV, Raipur
Farmers' Practice (T1)	Mono cropping, poor management of available resources
Recom. Practice (T2)	Crop – Rice –Mustard/ Greengram Veg. – Brinjal – Bittergourd - Ash gourd (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)	07
Cost of input	30000/-

OFT-4

Crop/Enterprise	Finger Millets
Title of on-farm trial	Assessment & performance of yield of Finger Millets 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- Traditional Practice
Details of technologies selected for assessment/refinement Treatments	T2 - Seed treatment with Beejamrit + soil application of Ghanje evamrit @250kg/ha + Jeevamrit @ 500 lit / ha /+Spray of Neemastra / Bramhastra
Source of technology	IGKV, Raipur
No. of farmers	07
Area of each trial	0.4
No of trial	07
No. of animals (if animals are part of OFT)	-
Critical input	Seed, Natural Farming inputs
Performance indicators Observation to be recorded	No. of Tillers / Plants , No of finger / ear head , Yield qt /ha & B:C
Cost of input	2000
Total cost	10000

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	Demonstration of rice var. Indira Aerobic -1 under upland condition	Seed, Pesticide	2023	5	12	
2	Rice	IDM	Demonstration of Integrated Disease Management Tools in Rice	Seed, Pesticide	2023	5	12	
3	Mustard	Resource Conservation technology	Demonstration on Utera technique in MUSTARD	Seed, Biofertilizers (Rhizobium, PSB) , Trichoderma, NPK (19:19:19	2023	5	12	
4	Tomato	IPM	Demonstration of IPM tools for managing major diseases and insects of Tomato	Seed and pesticide	2023	5	12	

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	July to December	120
2	Farmers Training	8	April to December	200
3	Media coverage	12	do	Mass
4	Training for extension functionaries	4	do	50

Cluster Demonstration of Oilseed and Pulses under NFSM (2023-24)

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	2023-24	20	50	
2	Mustard	Varietal improvement	HYV+Line sowing+IPM	Seed & Pesticide	2023-24	20	50	
3	Moong	Varietal improvement	-do-	-do-	2023-24	30	75	

[illegible]

[illegible]

B) OFF Campus

[illegible]

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	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							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	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	-	-	-	-
2	-	-	-	-
3	-	-	-	-
BIOFERTILIZERS	-	-	-	-
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
BIO PESTICIDES	-	-	-	-
1	-	-	-	-
2	-	-	-	-
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: 07.(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 Department
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 15:
2. No. of survey/PRA to be conducted: 2

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	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: 4000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Sesame	Khaif2023	Jawahar Til-11/14	Line sowing + RDF	1000
Mustard	Rabi2023	Giriraj	Line sowing + RDF	1000
Pigeon Pea	Kharif 2023	Chattishgarh Arhar -1	Line sowing + RDF	1000
Black Gram	Khaif 2023	Indira Urd Pratham	Line sowing + RDF	1000
Green Gram	Rabi 2023	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

KVK_____Ambikapur (Surguja)_____

1.1 Name of the Programme Coordinator with phone & mobile No

1.2 Staff Position on (31th Dec.2022)

[illegible]

8	Driver	Shri Mahendra Kushwaha	-	-	5200-20200+ GP 1900	30/03/2013	2013	84638-78346	-	
9	Driver	Shri Bisun Ram	-	-	5200-20200+ GP 1900	30/03/2013	2013	87706-00365	-	
10	Supporting staff	Shri Arjun Prasad	-		4775-7440+ GP 1300	04/10/2008	2008	92945-12250	-	
11	Supporting staff	-	Vacant	-	-	-	-	-	-	-

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	22/08/2023

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, 2022- Dec., 2022)

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	24.8
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	9.5

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 (2022)

Sl. No.	Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Surajpur	Surajpur	Kamalpur	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	Silphili	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	Ravaindranagar	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	Morbhanj	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	Surajpur	Surajpur	Sonwahi	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	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
8	Surajpur	Surajpur	Madanpur	Rice, Maize, Pigeon	Low yield and	Improved & high

				pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	income, high weed infestation, low fertility status, disease and pest problem	yielding varieties, INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
9	Pratappur	Pratappur	Songra	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,	Low yield and income, high	Improved & high yielding varieties,

				Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables	weed infestation, low fertility status, disease and pest problem	INM, IWM, IPM, IDM for Rice, Maize, Pigeon pea, Blackgram, Sesamum, Groundnut, Niger, Wheat, Field pea, Mustard and vegetables
14	Udaypur	Udaypur	Salhi	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	Parsa	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	Batauli	Batauli	Basajhal	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
11	75	06	130

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
80	2600	80	3500

Seed Production (Qtl.)	Planting material (Nos.)
1000	66000

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 of production of quality of crop production and practices for soil health management	Ragi	Low yield due to traditional method.	Assessment of Natural Farming on Yield of Ragi	-	Millets : The need of Future	Millets : The need of Future	Training, Demonstration	Seed, Beejamrit, Ghanjeevamrit, Jeevamrit
2	Promoting suitable agriculture practices in rain fed and irrigated areas	Paddy	Low yield & deteriorating in quality due to conventional cultivation.	Assessment of Integrated Crop Management on yield of scented rice	-	Integrated crop management in Paddy	-	Training, Demonstration	Seed (Jeeraphul, Dhaincha), Vermicompost, paddy weeder , NPK consortia
3	Promotion of IPM, for management of pests and diseases	Brinjal	Serious pest on brinjal crop	Assessment of IPM module for shoot and fruit borer in Brinjal	-	IPM in Solanaceous crop	-	Training, Demonstration	Azadiractin, Pheromone funnel trap
4	Promotion of IPM, for management of pests and diseases	Paddy	Regular and serious pest in Paddy crop	Assessment of bio intensive module for Stem borer management in Paddy crop	-	IPM in Paddy crop	-	Training, Demonstration	Azadiractin 1500 ppm , <i>Trichogramma japonicum</i>
5	Promotion of biological approach for management of pests and diseases	Tomato	Injudicious use of chemical pesticides	Assessment of ecofriendly management of tomato fruit borer, (<i>Helicoverpa armigera</i>).	-	-	-	Training, Demonstration	Pheromone Trap , lure, HaNPV
6	Promotion	Cabba	Low yield	Assessment	-	IPM in	-	Training,	<i>Metarhizium sp,</i>

	of biological approach for management of pests and diseases	ge	due to severe infestation of DBM	of biopesticides for diamondback moth, <i>Plutella xylostella</i> (Linn.) in cabbage crop.		Cruciferous crop		Demonstration	<i>Beauveria sp</i>
7	Promotion of suitable practices for ensuring higher productivity, production and income	Sugarcane	Low yield due to traditional method.	Assessment of pit planting technique on yield of Sugarcane.	-	Pit planting technique for Sugarcane	-	Training, Demonstration	Poly bag seedling
8	Promotion of suitable practices for ensuring higher productivity, production and income	Paddy	Low yield due to timely unavailability and imbalanced use of fertilizers.	Assessment of effect of Nano Urea on yield of Rice crop	-	-	-	Training, Demonstration	Seed, fertilizer
9	Promotion of suitable practices for ensuring higher productivity, production and income	Maize	Low yield due to imbalanced use of fertilizers.	Assessment of Soil Test based Nutrient Management on yield of Maize	-	-	-	Training, Demonstration	Seed, fertilizer
10	Promoting technologies and practices for soil health management	Mustard	Low yield due to imbalanced use of nutrients.	Assessment of Soil Test based Nutrient Management on yield of Mustard.	-	-	-	Training, Demonstration	Seed, fertilizer
11	Varietal replacement for field and vegetable crops including crop	Potato	Poor yield due to use of uncertified local variety	Assessment of improved potato variety Kufri Lalit	-	-	-	Training, Demonstration	Potato tuber seed

	diversification								
12	Varietal replacement, INM for better crop production	Paddy	Low yield	-	Varietal Demonstration on Rice for increasing productivity and profitability	Integrated crop management in Paddy crop		Training, Demonstration, Field visit, Field day	Seed
13	Promotion of additional source of income and nutritional fulfillment of family	Vegetables	Improper use of Backyard land	-	Demonstration on Kitchen Garden for Nutritional Security and Additional source of Income	Season wise planning for Kitchen gardening	-	Training, Demonstration, Field visit, Field day	Seedlings of vegetables & fruit crops
14	Integrated Nutrient Management	Paddy	Lack of nutritional management	-	Demonstration on Nutrient Management in Rice	Integrated Nutrient Management in Rice	-	Training, Demonstration, Field visit, Field day	Seed, Fertilizer
15	Integrated Nutrient Management	Wheat	Lack of nutritional management	-	Demonstration of Nutrient Management in Wheat	Integrated Nutrient Management in Wheat crop	-	Training, Demonstration, Field visit, Field day	Seed, Fertilizer
16	Promotion of additional source of income	Honey bee	Lack of additional source of income	-	Demonstration on profitable Bee keeping for additional income generation	Beekeeping	-	Training, Demonstration, Field visit, Field day	Sugar, Sulphur powder, Knife
17	Integrated pest management	Maize	Lack of proper management of fall army worm in Maize crop and yield loss	-	Demonstration on Fall Army Worm management in Maize Crop	Fall Army Worm management in Maize Crop	Fall Army Worm management in Maize Crop	Training, Demonstration, Field visit, Field day	Pheromone trap , Azadirachtin , Bt , Metarhizium , Emamectin Benzoate 5 SG , Spinetoram 11.7 SC

Technologies to be assessed

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

[illegible]

Farming										
Integrated Pest management	Paddy	-	-	-	-	-	-	-	-	1
balanced use of fertilizers	Paddy	-	-	-	-	-	-	-	-	1
Integrated Nutrient Management	Maize	-	-	-	-	-	-	-	-	1
Integrated Nutrient Management	-	Mustard	-	-	-	-	-	-	-	1
pit planting technique	-	-		Sugarcane	-	-	-	-	-	1
Integrated Pest management	-	-	-	-	Tomato	-	-	-	-	1
Integrated Pest management	-	-	-	-	Brinjal	-	-	-	-	1
Biological Pest Control	-	-	-	-	Cabbage	-	-	-	-	1
Varietal evaluation	-	-	-	-	-	-	-	-	Potato	1
TOTAL	5	1	0	1	3	0	0	0	1	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

Crop / Enterprise	Ragi	
Title of on farm trial	Assessment of Natural Farming on Yield of Ragi .	
Problem diagnosed	Low yield due to traditional method.	
Farmers' Practices	Traditional method.	
Details of technologies selected for 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: (i) Technical- yield (q/ ha) (ii) Economic (iii) Social – Employment generation	Yield attributes, Yield (q/ha) and Economics	

OFT-2

Crop / Enterprise	Paddy
Title of on farm trial	Assessment of Integrated Crop Management on yield of scented rice
Problem diagnosed	Low yield & deteriorating in quality due to conventional cultivation.
Farmers' Practices	Conventional cultivation

Details of technologies selected for assessment	T ₁	Green Manuring + Line Transplanting (20x15cm) + Two intercultural operation by Ambika paddy weeder + Vermicompost (1.7 t/ha) + NPK consortia (Seed treatment @ 5ml/litre water)
	T ₂	-
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	28000 Rs.	
Critical input	Seed (Jeeraphul, Dhaincha), Vermicompost, paddy weeder, NPK consortia	
Performance indicators: (iv) Technical- yield (q/ ha) (v) Economic (vi) Social – Employment generation	Yield (q/ha) and Economics	

OFT-3

Crop / Enterprise	Brinjal	
Title of on farm trial	Assessment of IPM module for shoot and fruit borer in Brinjal	
Problem diagnosed	Serious pest on brinjal crop	
Farmers' Practices	Spraying of random pesticides	
Details of technologies selected for assessment	T ₁	Install pheromone trap @ 10/ha + need based application of Azadirachtin 1500 PPM (5 ml/ lit. of water)
	T ₂	-
Source of technology	ICAR	
Plot size	0.1 ha	
No. of farmers	7	
Total cost	2800 Rs.	
Critical input	Azadirachtin, Pheromone funnel trap	
Performance indicators: (vii) Technical- yield (q/ ha) (viii) Economic (ix) Social – Employment generation	% Fruit infestation, Yield of Crop (q/ha)	

OFT-4

Crop / Enterprise	Paddy	
Title of on farm trial	Assessment of bio intensive module for Stem borer management in Paddy crop	
Problem diagnosed	Regular and serious pest in Paddy crop	
Farmers' Practices	Use of Chlorocyper (Chloropyriphos 50% EC + Cypermethrin 5% EC) Insecticide spraying @ 2ml / lit water.	
Details of technologies selected for assessment	T ₁	Spray of Azadirachtin 1500 ppm @ 3ml/lit. at 45 and 65 DAT, use of <i>Trichocards</i> @ 4cards per acre (6 releases) at 10 days interval starting from 25 DAT
	T ₂	-
Source of technology	IGKV, Raipur	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	9800 Rs	
Critical input	Azadirachtin 1500 ppm, <i>Trichogramma japonicum</i>	
Performance indicators: (x) Technical- yield (q/ ha) (xi) Economic (xii) Social – Employment generation	Dead heart percentage, Yield (q/ha)	

OFT-5

Crop / Enterprise	Tomato	
Title of on farm trial	Assessment of ecofriendly management of tomato fruit borer, (<i>Helicoverpa armigera</i>).	
Problem diagnosed	Injudicious use of chemical pesticides.	

Farmers' Practices	Spraying of random pesticides.	
Details of technologies selected for assessment	T ₁	Pheromone Trap @ 10 no./ha, + HaNPV (<i>Helicoverpa armigera</i> Nucleopolyhedro virus) @ 375 ml/ha (three spray at 10 days interval)
	T ₂	-
Source of technology	ICAR, New Delhi	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	7000 Rs.	
Critical input	Pheromone Trap , lure, HaNPV	
Performance indicators: (xiii) Technical- yield (q/ ha) (xiv) Economic (xv) Social – Employment generation	Larval population, fruit damage %, Yield (q/ha) and Economics.	

OFT-6

Crop / Enterprise	Cabbage	
Title of on farm trial	Assessment of biopesticides for diamondback moth, <i>Plutella xylostella</i> (Linn.) in cabbage crop.	
Problem diagnosed	Low yield due to severe infestation of DBM.	
Farmers' Practices	Spraying of random pesticides	
Details of technologies selected for assessment	T ₁	<i>Metarhizium anisopliae</i> @ 2.5 ml/lit water. (Three spray after 15 days interval)
	T ₂	<i>Beauveria bassiana</i> @ 2.5 ml/lit water. (Three spray after 15 days interval)
Source of technology	ICAR	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	8680 Rs.	
Critical input	<i>Metarhizium sp</i> , <i>Beauveria sp</i>	
Performance indicators: (xvi) Technical- yield (q/ ha) (xvii) Economic (xviii) Social – Employment generation	DBM larvae per plant, yield (q/ha).	

OFT-7

Crop / Enterprise	Sugarcane	
Title of on farm trial	Assessment of pit planting technique on yield of Sugarcane.	
Problem diagnosed	Low yield due to traditional method.	
Farmers' Practices	Sowing of cuttings in furrows	
Details of technologies selected for assessment	T ₁	Preparation of poly bag seedlings through single eye cutting and transplanting of 2-3 sets in each pit.
	T ₂	-
Source of technology	KVK, Ambikapur & farmers field (Innovative Technology)	
Plot size	0.2 ha	
No. of farmers	7	
Total cost	28000 Rs.	
Critical input	Poly bag sets	
Performance indicators: (xix) Technical- yield (q/ ha) (xx) Economic (xxi) Social – Employment generation	Yield and Economics	

OFT-8

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: (xxii) Technical- yield (q/ ha) (xxiii) Economic (xxiv) Social – Employment generation	No. of tillers/hill, Yield (q/ha) and Economics.	

OFT-9

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 selected for 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: (xxv) Technical- yield (q/ ha) (xxvi) Economic (xxvii) Social – Employment generation	Yield (q/ha) and B:C ratio	

OFT-10

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 selected for 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: (xxviii) Technical- yield (q/ ha) (xxix) Economic (xxx) Social – Employment generation	Yield (q/ha) and B:C ratio	

OFT-11

Crop / Enterprise	Potato	
Title of on farm trial	Assessment of improved potato variety Kufri lalit	
Problem diagnosed	Poor yield due to use of uncertified local variety	
Farmers' Practices	Use of uncertified varieties	
Details of technologies selectedfor assessment	T ₁	Potato variety - Kufri Lalit
	T ₂	-
Source of technology	IGKV, Raipur (PRS, Mainpat & CARS, Kanker)	
Plot size	0.1 ha	
No. of farmers	7	
Total cost	37500 Rs.	
Critical input	Potato tuber seed	
Performance indicators: (xxxi) Technical- yield (q/ ha) (xxxii) Economic (xxxiii) Social – Employment generation	No. of tuber per plant, yield (q/ha)	

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	Varietal assessment	Improved varieties (CG Devbhog)	Seed	Kharif, 2023	10	25	Yield (q/ha) and Economics
2	Vegetables	Nutritional Security and Income Generation	Kitchen Garden for Nutritional Security and Additional source of Income	Seedlings of vegetables & fruit crops	Kharif, Rabi 2023	0.05	12	Production Kg/ha, Net return Rs/ha
3	Paddy	Nutrient Management	INM	Seed, Fertilizer	Kharif, 2023	10	25	Yield (q/ha) and Economics
4	Wheat	Nutrient Management	INM	Seed, Fertilizer	Rabi 2023	10	25	Yield (q/ha) and Economics
5	Honeybee	Apiary management	Rearing and maintenance of Indian bee (<i>Apis cerana indica</i>)	Sugar, Sulphur powder, Knife	Round the year, 2023-24	20 bee boxes	20	Product produced (kg/year) and economics
6	Maize	IPM	IPM module	Pheromone trap , Azadirachtin , Bt , <i>Metarhizium</i> , Enamectin Benzoate 5 SG , Spinetoram 11.7 SC	Kharif 2023	02	10	Percent infestation, Yield Q/ha, Benefit Cost Ratio.

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	6	July, September, November, December	180
2	Farmers Training	12	January to December	360
3	Media coverage	3	July, November, January	mass
4	Training for extension functionaries	4	July, September, November, 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	
							Demon.	Local check
Rotavator , Leveler, Marker, Ripper	Paddy	Kharif , 2023	25	10	Seed	Yield (q/ha) and Economics	improved varieties (CG Devbhog)	Use of local low yielding varieties
Cultivator , Spade, Kudaali	Vegetables	Kharif , Rabi 2023	12	0.05	Seedlings of vegetables & fruit crops	Production Kg/ha, Net return Rs/ha	Kitchen Garden (Round the year availability of seasonal fruits & vegetables)	Improper utilization of badi
Rotavator , Leveler, Marker, Ripper	Paddy	Kharif , 2023	25	10	Seed, Fertilizer	Yield (q/ha) and Economics	Northern hill based recommended dose of Fertilizer (NPK @120:60:40 Kg/ha) Crop variety- CG Devbhog	Imbalanced fertilizer application
Seed drill, Cultivator , Ripper	Wheat	Rabi, 2023	25	10	Seed, Fertilizer	Yield (q/ha) and Economics	Northern hill based recommended dose of Fertilizer (NPK @120:60:40 Kg/ha) (Crop variety- CG Gehu 4)	Imbalanced fertilizer application
Bee boxes, Honey extractor	Honeybee	Round the year, 2023-24	20	20 bee boxes	Sugar, Sulphur powder, Knife	Product produced (kg/year) and economics	management of beehives	no management of beehives
Cultivator , Rotavator	Maize	Kharif 2023	10	02	Pheromone trap , Azadirachtin , Bt , Metarhizium , Emamectin Benzoate 5 SG , Spinetoram 11.7 SC	Percent infestation, Yield Q/ha, Benefit Cost Ratio.	Installation of pheromone traps @10-12 no's/ha, Azadirachtin 10000 ppm @ 5ml/lit. (spray 10 to 15 DAS), <i>Bacillus thuringiensis</i> @ 2g/lit 15 – 21 DAS, Spray of <i>Metarhizium anisopliae</i> @2ml/lit 30- 35 DAS, Need based application of insecticides based on ETL	Spraying of Random Insecticides

**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 (2023-24)

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 2023-24	20	50	Yield, Economics
2	Niger	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Kharif 2023-24	20	50	Yield, Economics
3	Groundnut	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Kharif 2023-24	20	50	Yield, Economics
4	Black gram	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Kharif 2023-24	20	50	Yield, Economics
5	Pigeon pea	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Kharif 2023-24	20	50	Yield, Economics

6	Mustard	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Rabi, 2023-24	20	50	Yield, Economics
7	Field pea	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Rabi, 2023-24	20	50	Yield, Economics
8	Chickpea	ICM	High Yielding Variety Sown in line, Timely Plant Protection and Weed Management	Seeds, Vermicompost, Pesticides	Rabi, 2023-24	20	50	Yield, Economics

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	8	June, july, August, September, November, January	250
2	Farmers Training	16	June, july, August, September, November, January	420
3	Media coverage	4	June, july, August, September, November	mass
4	Training for extension functionaries	2	july, , December	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	1	1	10	-	10	15	5	20	30
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-
Integrated Farming	1	1	10	-	10	15	5	20	30
Water management	-	-	-	-	-	-	-	-	-
Seed production	1	1	10	-	10	15	5	20	30
Integrated Crop Management	2	1	15	5	20	30	10	40	60
Total	5	4	45	5	50	75	25	100	150
II Horticulture									
a) Vegetable & fruit Crops									
Off-season vegetables	1	1	10	2	12	15	4	19	31
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-
Total	1	1	10	2	12	15	4	19	31

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants							Grand Total
			Others			SC/ST				
			Male	Female	Total	Male	Female	Total		
Household food security by kitchen gardening and nutrition gardening	1	1	9	0	9	17	5	22		
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	1	1	9	0	9	17	5	22		
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 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	

[illegible]

Thematic Area	No. of Courses	Duration (Days)	No. of Participants								
			Others				SC/ST				Grand Total
			Male	Female		Total	Male	Female		Total	
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									
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	8	8	90	9	98	92	53	145	243
II Horticulture									
a) Vegetable Crops									
Nursery raising	1	1	11	3	14	10	8	18	32
Export potential vegetables									
Protective cultivation (Green Houses, Shade Net etc.)	1	1	10	2	12	10	8	18	30
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	1	1	11	2	13	10	7	17	30

VII Plant Protection									
Integrated Pest Management	2	1	22	4	26	20	16	36	62
Integrated Disease Management	2	1	22	4	26	18	16	34	60
Bio-control of pests and diseases	2	1	20	6	26	22	12	34	60
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-
Total	6	3	64	14	78	60	44	104	182
VIII Fisheries									
IX Production of Inputs at site	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-
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 Irrigation	Types of Micro Irrigation	2/1	8	2	10	37	13	50	60
Home Science	-	-	-	-	-	-	-	-	-	-
Plant Protection										
July, September	Integrated Pest Management for Kharif Crops	Integrated Pest Management for Kharif Crops	4/1	15	5	20	85	15	100	120
November,December, January,	Integrated Pest for Management Rabi Crops	Integrated Pest Management for Rabi Crops	4/1	16	4	20	75	25	100	120
July, January	Apiary Management	Rearing and maintenance of Indian bee all	2/1	10	0	10	35	15	50	60

		round the year								
Agriculture Extension (Capacity Building and Group Dynamics)										
-	-	-	-	-	-	-	-	-	-	-
Soil Science										
June, September	Soil Testing	Soil Testing	2/1	10	0	10	35	15	50	60
July, January	Integrated Nutrient Management	Integrated Nutrient Management	2/1	10	5	15	35	10	45	60
July, January	Organic Farming	Organic Farming	2/1	5	5	10	25	25	50	60

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										
August, December	Weed Management	Weed Management in Paddy crop.	2/1	10	0	10	50	10	50	60
July, January	Natural Farming	Need and awareness of Natural Farming	2/1	6	2	8	16	5	21	29
August, November	Integrated Crop Management	Integrated Crop Management in Oilseed crops	2/1	8	2	10	32	18	50	60
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	1/1	6	2	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	
		crops								
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
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

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		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
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

Training Programme for Extension Functionaries:

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

Date		programme		Male	Female	Total	Male	Female	Total	
Crop Production										
July		Natural farming	1	9	3	12	11	2	13	24
Horticulture										
September		Production technology of off season vegetable crops	1	10	3	13	14	2	16	29
Livestock production	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
Home Science										
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
Plant Protection										
July		Integrated pest management in Maize crop	1	9	2	11	14	3	17	28
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
Agriculture Extension (Capacity Building and Group Dynamics)										
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
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

[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	06	284	166	450	-	-	24	-	-	-
Kisan Mela	02	-	-	1200	-	-	20	-	-	-
Kisan Ghosthi	10	-	-	250	-	-	10	-	-	-
Exhibition	06	-	-	mass	-	-	12	-	-	-
Film Show	01	83	45	128	-	-	-	83	45	128
Method Demonstrations	8	173	59	232	-	-	-	173	59	232
Farmers Seminar	-	-	-	-	-	-	-	-	-	-
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	12	210	91	301	-	-	-	-	-	-
Lectures delivered as resource persons	35	454	282	736	3	2	5	458	284	742
Newspaper coverage	15	-	-	mass	-	-	-	-	-	-
Radio talks	8	-	-	mass	-	-	-	-	-	-
TV talks	02	-	-	mass	-	-	-	-	-	-
Popular articles	-	-	-	-	-	-	-	-	-	-
Extension Literature	60	-	-	1800	-	-	04	-	-	-
Advisory Services	-	-	-	-	-	-	-	-	-	-
Scientific visit to farmers field	13	130	35	165	-	-	-	130	35	165
Farmers visit to KVK	-	-	-	-	-	-	-	-	-	-
Diagnostic visits	24	-	-	600	-	-	96	-	-	-
Exposure visits	-	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	08	-	-	0	-	-	240	-	-	-
Soil health Camp	2	-	-	-	-	-	01	-	-	-
Animal Health Camp	-	-	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
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	CG Devbhog	60
	Wheat	CG Gehun -3	90
	-	-	-
OILSEEDS			
PULSES			
	Field pea	IPFD- 9-2	200
	Black gram	Indira Urd Pratham	157
	Pigeon pea	Kashi Kanchan	400
VEGETABLES	Spinach	All green	1.5

	Cowpea	Kashi Kanchan	01
FLOWER CROPS	-	-	-
OTHERS (Specify)			
	Turmeric	Roma	60
	Ginger	Suprabha	30
	Fenugreek	RMT-305	0.8

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	<i>Rhizobium</i>	-	-	-
BIOFERTILIZERS				
1	Vermicompost	-	-	-
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	Fish	Monoshock	-	2000
Others (Specify)	-	-	-	-

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

Date of start	Periodicity	Number of copies to be published
January to March 2023	January to March 2023	500
April to June 2023	April to June 2023	500
July to September 2023	July to September 2023	500
October to December 2023	October to December 2023	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	Beekeeping	01
2	VCD	Hi-tech horticulture	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	Manjira , Fatehpur	Surajpur	25 KM
2	Bansa	Ambikapur	20 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 (Manjira , Fatehpur, Khadgawa kala, Sarhari, Khopa, Bansa, Ganeshpur, Salhi, Phungi)

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, Indira barani dhan, 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-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