

Annual Progress Report 2022-23 & Action Plan 2023-24



By

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ICAR, ATARI Zone IX
Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.)
Krishi Vigyan Kendra, Kanker



THE TEAM_(AS ON 31.03.2023)

SS&H- Vacant

SMS - 7 (Agronomy, FMP, Plant Pathology, Soil science, Horticulture, LPM, Ag.met)

F.M. - 1 (Agronomy)

T.A. - 1 (Entomology)

P.A. - 1 (Computer Science)

Technical Staff - 11

Supporting staff – 05

Vacant post - 01

Basic information of the district

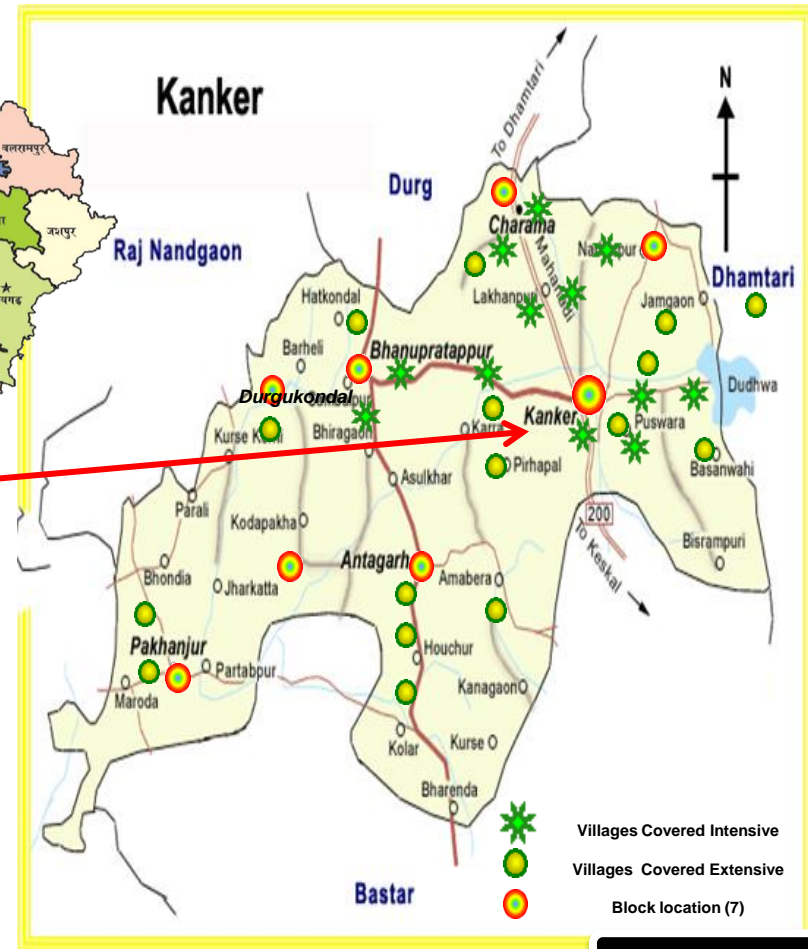
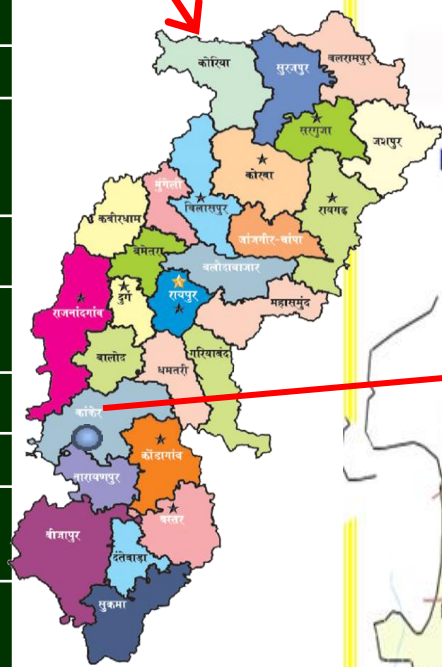
Outreach of the KVK

104 villages covered out of 1064

650 villages through Farmers Friend

1064 village Through KMA

Agro-climatic Zone	Chhattisgarh plain: 80% area Bastar plateaue: 20% area
No. of block	7
No. of villages	1064
Average size of land holding	0.86 ha
Geographical area	6.43 lakh ha
Gross sown area	2.90 lakh ha
Kharif crop area	2.62 lakh ha
Rabi crop area	0.53 lakh ha
Cropping Intensity	123 %
Irrigation (%)	Kharif -22 %, Rabi- 11 %
Farm Family	ST- 68%, SC -5%, Others – 27%



District level Need assessment and planning of Activities

Crop	Causes for low yield/ prevalent practices	Proposed Scientific Interventions
Millet	Low yield due to use of age old variety	Improved variety of millet for sustainable production
	Imbalance/ no use of fertilizer	Balance nutrition
	lack of suitable machines for harvesting and threshing	Introduction of mechanized harvesting, threshing equipment
Rice Direct seeded	Low yield due to heavy infestation of weed	Line sowing with chemical/ mechanical weed management
	Traditional method of cultivation (broadcasting with biasi)	
	Non systematic application of plant protection chemicals	ITK based Integrated Pest Management against major diseases and insect pests of Rice
	Imbalance use of fertilizer	Soil test based nutrient management
Trans planted rice	Low yield due to delay in transplanting if rainfall is delayed	Line sowing with chemical/ mechanical weed management in medium land situation
	Manual weeding which increases production cost	Line Transplanting with mechanical / chemical weed control
	Imbalance use of fertilizer	Soil test based nutrient management

Crop	Causes for low yield/ prevalent practices	Proposed Scientific Interventions
Black gram	Low yield due to heavy infestation of weeds	Application of chemical herbicide
	Use of local variety/ age old seed	Introduction of high yielding improved variety
	Imbalance/no use of fertilizer	Balance use of fertilizer
Horse gram	Low yield due to heavy infestation of weeds	Application of chemical herbicide
	Use of local variety/ age old seed	Introduction of high yielding improved variety
	Imbalance/no use of fertilizer	Balance use of fertilizer
Field pea	Use of local variety/ age old seed	Introduction of high yielding improved variety
	Imbalance/no use of fertilizer	Balance use of fertilizer
	Infestation of insect pest and diseases	Management of insect pest and disease
Chickpea	Use of local variety/ age old seed	Introduction of high yielding improved variety
	No use of fertilizer	Balance use of fertilizer
	Infestation of insect pest and diseases	Management of insect pest and disease
Maize	Low yield due to heavy infestation of weeds	Chemical/ mechanical weed management
	Imbalance use of fertilizer	Soil test based nutrient management
Vegetables	Use of hybrid varieties available in the market	High yielding resistance variety
	No systematic use of plant protection chemicals which increases production cost	ITK based Integrated Pest Management against major diseases and insect pests of vegetables
	Imbalance use of fertilizer	Balance use of fertilizer
	Low yield in badies due to non systematic cultivation	Scientific cultivation in badies

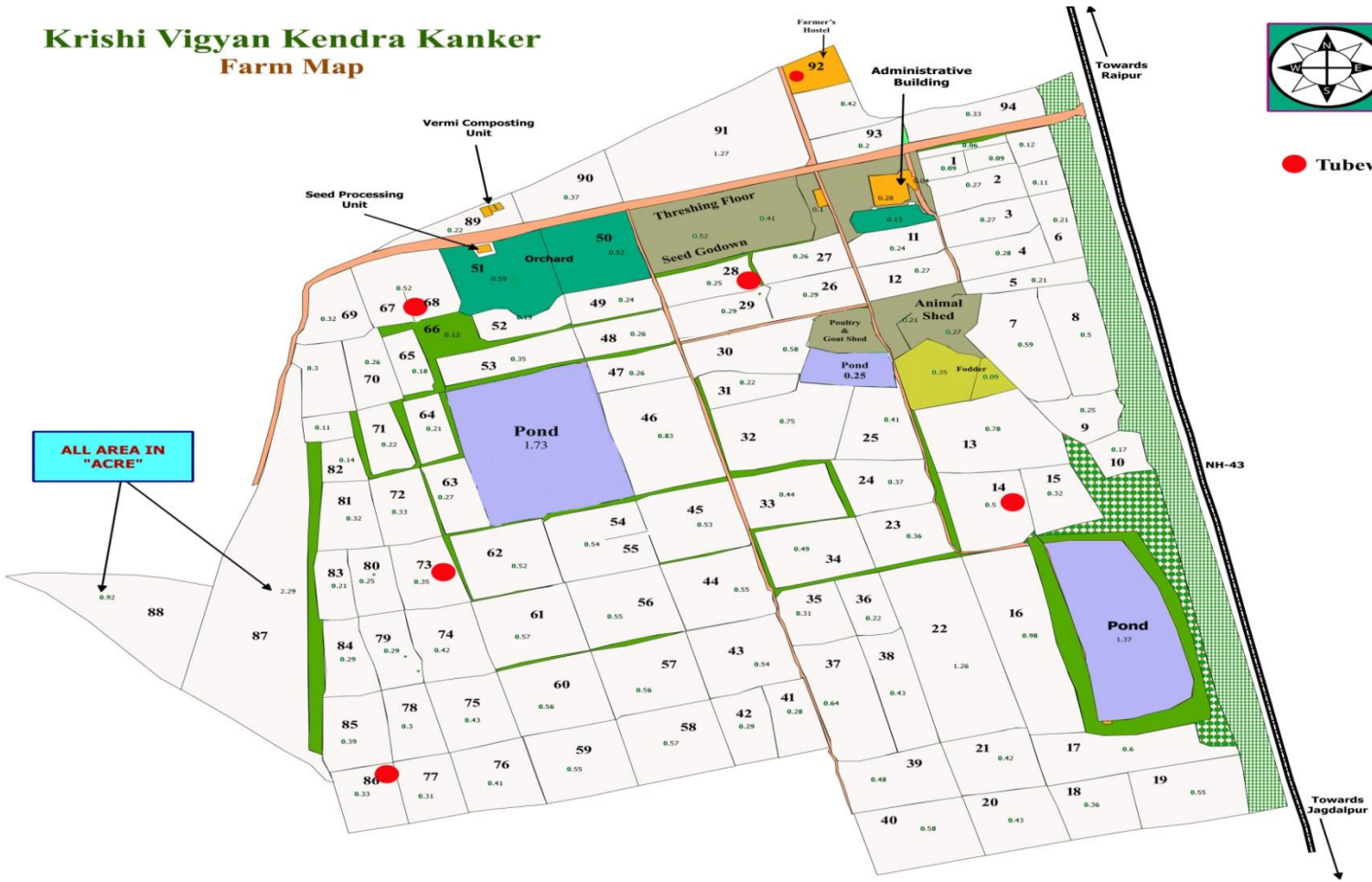
Crop	Causes for low yield/ prevalent practices	Proposed Scientific Interventions
Goat	Low meat production due to infectious diseases	Housing management and vaccination
	Low meat production due to non descriptive breed	Breed improvement
Cattle	Low milk production due to lack of feeding and improper management	Housing management, green fodder production, vaccination and de-worming
	Low milk production due to non descriptive breed	Breed improvement through AI
Pig	Low meat production due to infectious diseases	Housing management and vaccination
	Low meat production due to non descriptive breed	Breed improvement
Poultry	Low meat and egg production due to infectious diseases	Proper vaccination
	Low income due to non descriptive breed	Breed improvement through Kadaknath breed

General Information about KVK Farm

Total area	18.18 (ha)
Area under infrastructure roads etc	3.066(ha)
Area under Mother orchard, Dairy, Ponds, Bamboo Plantation etc	4.624 (ha)
Net cultivated area	10.49 (ha)
Soil type	Sandy loam
Cropping Intensity	171%

Krishi Vigyan Kendra Kanker

Farm Map



ALL AREA IN "ACRE"



● Tubewells

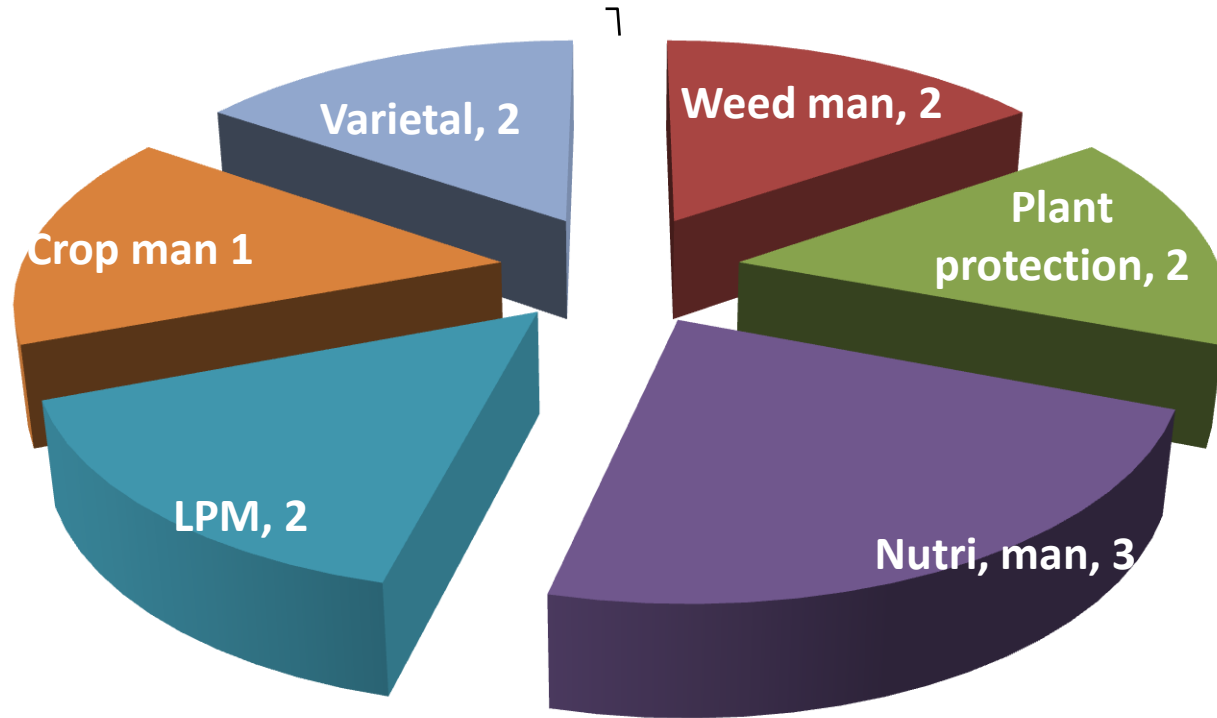
**Achievement
during 2022-23**

ON FARM TRIALS

DURING

2022-23

Summary of OFTs



Total FLDs – 13

Problem	Low yield of blackgram due to heavy infestation of weeds
Thematic Area	Weed management
Name of Technology	Chemical Weed Management
Source of technology	IGKV Raipur
Farmers Practice (T ₁)	Weeding is not common, some farmers doing hand weeding
Assessed Recommended Practice (T ₂)	Application of Pre-emergence herbicide Pendimathalin @750-1000 ml <i>a.i.</i> per ha
Assessed Recommended Practice (T ₃)	Post-emergence herbicide imazethapyre @ 60 g <i>a.i.</i> /ha at 18-25 DAS
No. of Trials (Replication)	5
Parameters recorded	Weed biomass (sqm), weed flora count (no.), Yield (q/ha)
Name of Scientist	Dr. Chandu Lal Thakur

Result

Details of technology	Name and Unit of Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio
T1(Farmers Practice)	Yield (q/ha) (Weed biomass/sqm)	4.75 q/ha 21 /sqm	15800	28500	12700	1.80
T2 (Recommended Practice)	Yield (q/ha) (Weed biomass/sqm)	6.88q/ha 7/sqm	19500	41280	21780	2.12
T3 (Recommended Practice)	Yield (q/ha) (Weed biomass/sqm)	7.35q/ha 5/sqm	19800	44100	24300	2.23

Farmers Practice (T ₁)	Weeding is not common, some farmers doing hand weeding
Assessed Recommended Practice (T ₂)	Application of Pre-emergence herbicide Pendimathalin @750-1000 ml <i>a.i.</i> per ha
Assessed Recommended Practice (T ₃)	Post-emergence herbicide imazethapyre @ 60 g <i>a.i.</i> /ha at 18-25 DAS



Farmer practice



Recommended practices

Problem	Low yield of Horsegram due to heavy infestation of weeds
Thematic Area	Weed management
Name of Technology	Chemical Weed Management
Farmers Practice (T_1)	Weeding is not common, some farmers doing hand weeding
Assessed Recommended Practice (T_2)	Application of post emergence herbicide Quizolfop-ethyle @40 ml <i>a.i.</i> per ha at 20 DAS
No. of Trials (Replication)	05
Parameters	Weed biomass (sqm), Yield (q/ha)
Name of Scientist	Dr. Chandu Lal Thakur

Result

Details of technology	Name and Unit of Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Yield (q/ha) (Weed biomass/sqm)	4.72 q/ha 22 /sqm	15500	30680	15180	1.98
T2 (Recommended Practice)	Yield (q/ha) (Weed biomass/sqm)	6.88 q/ha 9/sqm	18700	44720	26020	2.39

Farmers Practice (T ₁)	Weeding is not common, some farmers doing hand weeding
Assessed Recommended Practice (T ₂)	Application of post emergence herbicide Quizolfop-ethyle @40 ml <i>a.i.</i> per ha at 20 DAS



Recommended Practice



Farmers Practice

Problem	Low yield due to age old variety
Thematic Area	Improved Variety
Name of Technology	Rainfed rice
Source of technology	IGKV Raipur
Farmers Practice (T ₁)	Swarna
Assessed Recommended Practice (T ₂)	MTU 1318
No. of Trials (Replication)	05
Parameters	No. of effective tillers/sqm, no grains per panicle, Yield (q/ha), B: C ratio
Name of Scientist	Dr. Chandu Lal Thakur

Result

Details of technology	Name and Unit of Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Yield (q/ha) No. of effective tillers/sqm)	34.2 q/ha 420 /sqm	32000	85500	53500	2.67
T2(Recommended Practice)	Yield (q/ha) No. of effective tillers/sqm)	40.5 q/ha 433/sqm	34500	101250	66750	2.93

Farmers Practice (T ₁)	Swana
Assessed Recommended Practice (T ₂)	MTU 1318



Title - Assessment of growth rate of poultry birds by feed management.

Year/Season:	2022
Farming situation:	-
Problem diagnosis:	Slow growth of poultry birds in backyard
Thematic area:	Feed 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-	Free range
T2 –Recommended Practice-	Free range with Azola
T3- Recommended Practice-	Standard feeding with Azola
Parameters to be recorded	Weight gain in three months (kg/birds)

Assessment of growth rate by supplement feeding with Azola

Details of technology	Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio
T1 (Free range)	Weight gain in three months (kg/birds)	0.60	15000 (100 birds)	30000	15000	2.00
T2 (Free range with Azola)	--"--	0.98	19000	49000	30000	2.58
T3 (Standard feeding with Azola)	--"--	1.3	24000	65000	41000	2.71



T1



T2



T3

Title - Assessment of growth rate of Quail in different rearing system

Year/Season:	2022
Farming situation:	-
Problem diagnosis:	Slow growth and low egg production in deep litter system
Thematic area:	Housing 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-	Deep litter system
T2 –Recommended Practice-	Cage system
T3- Recommended Practice-	
Parameters to be recorded	Weight gain in one months (kg/birds), Egg production (no.)

Result

Assessment of growth rate of Quail in different rearing system

Details of technology	Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio
T1 (Deep system) litter	Weight gain (kg) (300 birds/unit)	45	30600	66000	35400	2.16
	Egg production in five months	12000				
T2 (Cage system)	Weight gain in one months (kg) (300 birds/unit) Egg production in five months	60 16800	29500	85200	55700	2.89



Year/Season:	Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of existing variety
Thematic area:	Varietal assessment
No of trials:	05
No. of farmers involved	05
Type of OFT	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of age old seed
T2 –Recommended Practice-	Improved variety Chhattisgarh Dhaniya II
T3- Recommended Practice-	
Date of sowing:	02 Jan. 2021
Date of harvesting:	08 May 2021
Source of technology:	IGKV Raipur
Characteristics of technology:	Yield (q/ha)
Name of Crop/Enterprises:	Coriander

Result

Assessment of Improved variety of Coriander

Details of technology	Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio
T1 (Use of age old seed)	Yield (q/ha)	6.5	43000	81250	38250	1.89
T2(Improved variety Chhattisgarh Dhaniya II)	Yield (q/ha)	10.71	56000	133875	77875	2.39



Farmer Practice



Recommended Practice

Year/Season:	Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to no use of micro nutrient by farmers
Thematic area:	Nutrient management
No of trials:	05
No. of farmers involved	05
Type of OFT	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of micro nutrient by farmers
T2 –Recommended Practice-	Foliar application of Zinc and Boron at 50-60-70 DAS in Brinjal
T3- Recommended Practice-	
Date of sowing:	04 June 2021
Date of harvesting:	28 Dec 2021
Source of technology:	IGKV Raipur
Characteristics of technology:	Yield (q/ha)
Name of Crop/Enterprises:	Brinjal

Result

Assessment of Foliar application of Zinc and Boron in Brinjal

Details of technology	Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio
T1 (No use of micro nutrient)	Yield (q/ha)	273	109000	218400	109400	2.00
T2(Foliar application of Zinc and Boron at 50-60-70 DAS)	Yield (q/ha)	362	119000	289600	170600	2.43



Title - Assessment of tractor drawn planter for sowing of millet crop

Year/Season	Kharif 2022
Farming situation:	Rainfed
Problem	Non availability labour in time and high cost, Lack of knowledge
Thematic Area	Farm Mechanization
Name of Technology	Tractor Drawn Planter
Farmers Practice (T ₁)	Broadcasting Sowing Method
Assessed /Recommended Practice (T2)	Tractor drawn planter for sowing millet crop
Source of technology:	Commercial make
Characteristics of technology:	9 Row ,Power source Tractor 35 hp or above
Name of Crop/Enterprises:	Finger Millet
No. of Replication	05
Parameters to be recorded	Yield (q per ha.), Field capacity (ha/hr)

Result

Treatment	Field capacity (ha/hr)	% change in Parameter	Parameter* (Yield q/ha)	% change in Yield	Remark
T ₁	0.30	23 %	09.25	24.32 %	Input-seed, Fertilizer and Planter
T ₂	0.37		11.50		

Details of technology	Parameter Name and Unit of Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T ₁ (Farmers Practice)	Field capacity (ha/hr)	0.30	15800	33022	17222	2.09
T ₂ (Recommend Practice)	Field capacity (ha/hr)	0.37	18700	41055	22355	2.19



Title - Assessment of tractor drawn maize planter

Problem	Non availability labour in time and high cost
Thematic Area	Improved implements
Name of Technology	Tractor drawn maize planter
Farmers Practice (T ₁)	Manual Practices
Assessed Recommended Practice (T ₂)	Tractor drawn maize planter
No. of Replication	05
Parameters to be recorded	Yield (q per ha.), Field capacity ha/hr

Result

Treatment	Field capacity (ha/hr)	% change in Parameter	Parameter* (Yield q/ha)	% change in Yield	Net Income Rs/ha	B:C Ratio**
T ₁	0.09	375 %	29.10	6.18 %	23000	1.53
T ₂	0.38		30.90		36380	1.91

Result

Details of technology	Parameter Name and Unit of Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Manual Practice)	Field capacity (ha/hr)	0.08	40500	66930	26430	1.65
T2 (Tractor drawn maize planter)	Field capacity (ha/hr)	0.38	39200	71070	31870	1.81



Problem	Low yield of rice (MTU-1010) due to Zn deficiency
Thematic Area	Nutrient management
source of tech.	IGKV, Raipur
Farmers Practice (T ₁)	No use of Zinc fertilizer
Assessed recommended practice (T ₂)	Soil application of 25 Kg Zn ha ⁻¹ (through ZnSO ₄ .7H ₂ O) with RDF of NPK
No. of Trials (Replication)	10
Parameters to be recorded	Yield (q ha ⁻¹)

Result

Treatment	Yield (q ha ⁻¹)	% change in Yield	Parameter (No. of effective Tillers m ⁻²)	% change in Parameter	Gross Return Rs ha ⁻¹	Net Return Rs ha ⁻¹	B:C Ratio
T ₁	41.64	8	272	27	70788	42646	1.91
T ₂	44.39		321		78863	49557	2.02

Title - Demonstration of Zn-micronutrients in transplanted rice



Farmer Practice



Demonstration plot

Problem	Low yield in maize due to imbalance fertilization
Thematic Area	Nutrient management
Source of technology	IGKV, Raipur-2014
Farmers Practice (T₁)	Imbalance use of fertilizer
Assessed recommended practice (T₂)	75% RDF of NPK (120:60:30kg ha⁻¹) + VC (50 q ha⁻¹) + PSB 5 g per kg of seed
No. of Trials	05
Parameters recorded	Cob length per plant (cm), Yield (q ha⁻¹)

Treatment	Yield (q ha ⁻¹)	% change in Yield	Parameter Cob length (cm)	% change in Parameter	Gross return Rs ha ⁻¹	Net Return Rs ha ⁻¹	B:C Ratio
T1 (Imbalance use of fertilizer)	49		12.5		63700	37900	2.07
T2 (75% RDF of NPK (120:60:30kg ha ⁻¹) + VC (50 q ha ⁻¹) + PSB 5 g per kg of seed)	59	26.53	16	28.0	80600	53350	2.56



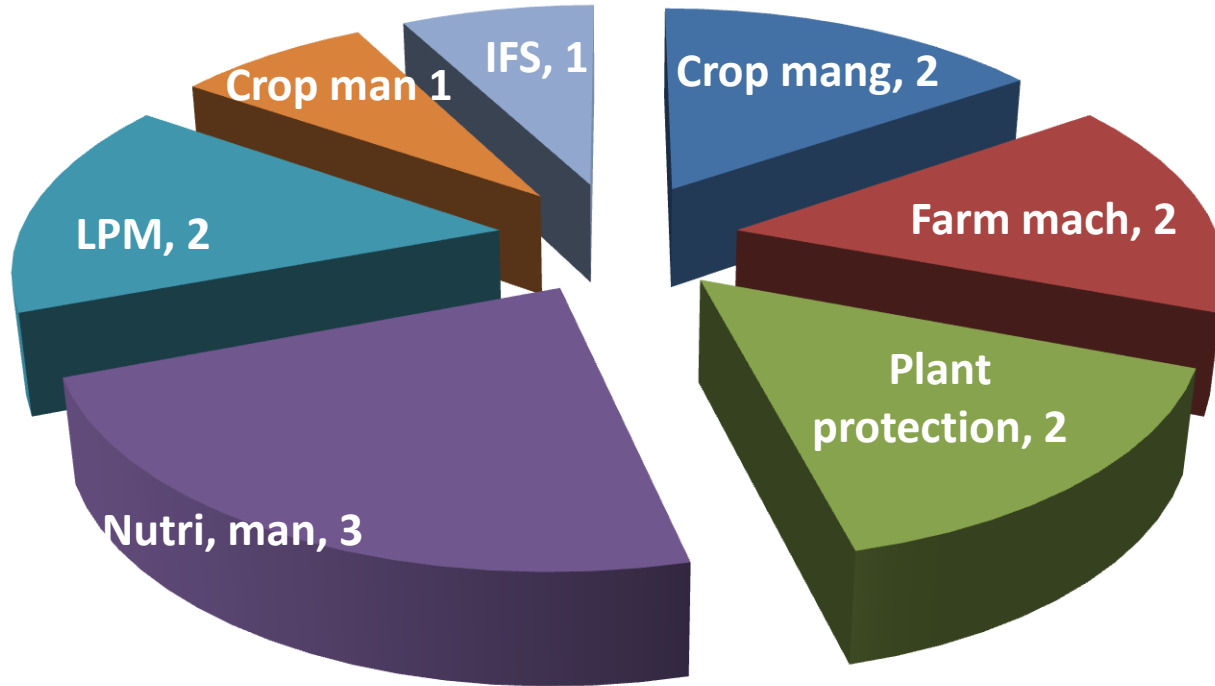
Farmer Practice



Improved Practice

Results
of
FRONT LINE
DEMONSTRATION
CONDUCTED
DURING 2022-23

Summary of FLDs



Total FLDs – 13

Title – Introduction of improved variety of Finger millets

Problem	Low yield of existing variety
Thematic area	Improved variety
Source of tech.	IGKV, Raipur
Farmers Practice (T ₁)	Use of local/existing variety
Assessed recommended practice (T ₂)	Improved variety Indira Ragi-1
No. of Trials (Replication)	20
Parameters to be recorded	No. of effective tillers/sqm, Yield (q/ha)

Result

Details of technology	Name and Unit of Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1	Yield (q/ha) No. of effective tillers/sqm)	4.5 q/ha 18 /sqm	8850	15197	6347	1.72
T2	Yield (q/ha) No. of effective tillers/sqm)	6.8 q/ha 21/sqm	10300	22964	12664	2.23

Title – Introduction of improved variety of Finger millets



Title – Introduction of 1.0 ha IFS Model for Small & Marginal Farmers

Problem identified	Low income from existing cropping system
Thematic Area	Income generation
Farming Situation	Irrigated
Source of Technology	IGKV, Raipur
(T1) Farmers Practice	Mono-cropping of Rice
(T2) Technology Demonstrated	IFS Model (Rice-Chickpea/Maize/Vegetable) + Fish cum Duck + Poultry + Goatry + Animal Husbandry as per suitability of farmers
Number Demo.	05
Observations recorded	Net Return Rs./ha, B:C Ratio
Name of Scientist	Dr. Chandu lal Thakur

Details of technology	Name and Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1	Income Rs/ha	59500	98400	38900	1.65
T2	Income Rs/ha	83900	198300	114400	2.36



Title – Introduction of Quail rearing for income and employment generation

Season	2022-23
Problem	Low income of farmers
Thematic Area	Income generation
Source of tech.	DSVCKV Durg
Farmers Practice (T₁)	No such practice
Rec. Practice (T₂)	Quail rearing @ 100 bird per farmer
No. of Trials (Replication)	5
Parameter to be recorded	Growth rate and B:C ratio
Name of Scientist	Dr. D. Suryam Dora

Details of technology	Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio
T1 (No practice)	Production (nos)	-	-	-	-	-
T2(Quail rearing) 100 birds each unit	Production (nos)	92	2520.00	5520.00	3000.00	2.19



Title – Introduction of IDM module against poultry diseases

Season	2022-23
Problem	High mortality due to poultry disease
Thematic Area	Disease management
Source of tech.	DSVCKV Durg
Farmers Practice (T₁)	No de-worming and no vaccination
Rec. Practice (T₂)	Vaccination against various disease and de-worming
No. of Trials (Replication)	5
Parameter to be recorded	Morbidity , mortality and growth rate
Name of Scientist	Dr. D. Suryam Dora

Result

Introduction of IDM module against poultry diseases

Details of technology	Parameter Name and Unit of Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio
T1 (without vaccination & medicine)	Weight gain in Four months (kg/birds)	1.00	21800 (100 birds)	37500.00	15700.00	1.72
	Mortality (%)	25%				
T2(Timely vaccination Ranikhet (F-strain, Gambaro, Lasota & R2B), multivitamin)	Weight gain in Four months (kg/birds)	1.30	24200 (100 birds)	61750.00	37550.00	2.55
	Mortality (%)	5%				



Title – Demonstration of Elephant foot yam production with drip irrigation

Thematic area:	Crop management
No of trials:	5
No. of farmers involved	5
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Rainfed condition
T2 –Recommended Practice-	Drip irrigation
Source of technology:	CTCRI, CIAE
Characteristics of technology:	Yeild q/ha
Name of Crop/Enterprises:	Elephant foot yam

Demonstration of Elephant foot yam production with drip irrigation

Details of technology	Parameter Name and Unit of Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio
T1 (Rainfed condition)	Yield (q/ha)	510	470000	1020000	550000	2.17
T2 (Drip irrigation)	Yield (q/ha)	690	520000	1380000	860000	2.65



Title – Demonstration of Water melon cultivation in upland along with polythene mulching

Thematic area:	Crop management
No of trials:	5
No. of farmers involved	5
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No mulching
T2 –Recommended Practice-	Polythene mulching
Source of technology:	CIAE
Characteristics of technology:	Yeild q/ha
Name of Crop/Enterprises:	Water melon

Demonstration of Water melon cultivation in upland along with polythene mulching

Details of technology	Parameter Name and Unit of Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio
T1 (No mulching)	Yield (q/ha)	277	104000	221600	117600	2.13
T2 (Polythene mulching)	Yield (q/ha)	378	135000	302400	167400	2.24



Title – Introduction of Baler machine in rice crop.

Season	Kharif 2022
Problem	Burning of paddy straw in the field
Thematic Area	Farm Mechanisation
Source of tech.	Commercial make
Farmers Practice (T₁)	Not collect residues after harvesting of paddy crop
Rec. Practice (T₂)	Make bales by using baler machine for safe storage and easy handling
No. of Trials (Replication)	10
Parameter to be recorded	Capacity (bundles/hr), Avg. weight of bundle(Kg), Fuel Consumption (l/hr),
Name of Scientist	Er. Narendra Haridas Tayade

Introduction of Baler machine in rice crop.

Treatment	Actual field capacity (ha/h)	Cost of operation (Rs/ha)	Bale output (q/h)	Bale weight (kg)	Net Return	B:C Ratio
T ₁	0.030	14240	1.43	9.45	12110	1.85
T ₂	0.37	15190	6.51	24.10	17980	2.18

Particulars	Farmer's Field
Capacity, Bales per hr	27
Weight of One bale, Kg	24.10
Power source	55 hp Tractor
Area Covered	70 ha
No of farmers	18



Title – Demonstration of power operated maize dehusker cum sheller

Season	Kharif 2022
Problem	Labor shortage, More time and Lack of knowledge
Thematic Area	Farm Mechanisation
Source of tech.	MPUAT Udaipur
Farmers Practice (T₁)	Manually
Rec. Practice (T₂)	Maize Thresher
No. of Trials (Replication)	5
Parameter to be recorded	Field capacity (q/hr), labour saving (man hr), Threshing Efficiency%, Cleaning Efficiency %
Name of Scientist	Er. Narendra Haridas Tayade

Result

Demonstration of power operated maize dehusker cum sheller

Details of technology	Parameter Name and Unit of Parameter	Result	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Capacity (q/hr)	0.08	42950	80950	38000	1.88
T2 (Recommend Practice)	Capacity (q/hr)	7.70	41150	81650	40500	1.98

Total Number of Demonstrations	6
Dehusking Efficiency (%)	97.5
Shelling Efficiency (%)	91
Broken grains ratio	0.80
Capacity (q/h)	7.70

The technology is acceptable to the farmers as it do two works simultaneously with low cost.



Problem	Low yield of rice due to imbalance and inadequate use of fertilizer
Thematic area	Nutrient management
Source of tech.	IGKV, Raipur
Farmers Practice (T ₁)	Application of NPK kg ha ⁻¹ without soil test based
Assessed recommended practice (T ₂)	Soil test based nutrient management
No. of Trials (Replication)	10
Parameters recorded	No. of effective tillers m ⁻² , Yield (q ha ⁻¹),

Result

Treatment	Yield (q ha ⁻¹)	% change in Yield	Parameter (No. of effective Tillers m ⁻²)	% change in Parameter	Gross Return Rs. ha ⁻¹	Net Return Rs ha ⁻¹	B:C Ratio
T ₁	32.55	21	12.9	24.03	62400	37450	1.98
T ₂	44.43		16.0		81250	54450	2.21

Soil Testing Report

S.N.	Farmer's name	Soil Available NPK (Kg ha ⁻¹)			Farmer's fertilizer dose (Kg ha ⁻¹)			STBFR dose for TY (50 q ha ⁻¹)			Yield FP (q ha ⁻¹)	Yield STBFR dose (q ha ⁻¹)
		SN	SP	SK	FN	FP	FK	FN	FP	FK		
1	Hridayram Shori	122.30	19.89	308.43	75	46	30	132.0	11.3	49.5	39	46.7
2	Vijay Kumar Usendi	128.58	18.88	453.14	75	46	30	128.4	14.4	35.0	40.5	48.1
3	Kailash Shori	147.39	10.04	352.10	75	46	30	117.7	41.4	45.2	41.4	50.2
4	Satish Usendi	147.39	15.92	393.20	75	46	30	117.7	23.5	41.0	43.8	51.5
5	Shyamabai Shori	147.39	15.20	392.30	75	46	30	117.7	25.7	41.1	41.7	48.9
6	Urmila	137.98	19.09	399.84	75	46	30	123.1	13.7	40.4	42.5	50.7
7	Gokulram Nag	131.71	17.30	443.63	75	46	30	126.6	19.2	36.0	40.3	47.8
8	Noharsingh Shori	131.71	13.95	489.58	75	46	30	126.6	29.6	31.4	39.1	48.5
9	Shobhiram Shori	141.12	18.92	348.29	75	46	30	121.3	14.2	45.5	43.9	51.8
10	Kishor Shori	128.58	16.55	362.59	75	46	30	128.4	21.6	44.1	40.2	48.4

Fertilizer adjustment equation used for desired yield target are:

$$\text{FN} = 4.05 \text{ T} - 0.57 \text{ SN} - 0.78 \text{ FYM}$$

$$\text{FP} = 1.46 \text{ T} - 3.09 \text{ SP} - 0.31 \text{ FYM}$$

$$\text{FK} = 1.61 \text{ T} - 0.10 \text{ SK} - 0.14 \text{ FYM}$$

Note: 1 t FYM acre applied on each FLDs

Title - Assessment of soil test based Nutrient Management in rice (TY-50 q ha⁻¹)



Soil sampling



Field day



Farmers practices



STBFR practices

Title - Assessment of 100% NPK-optimal dose recommendation under nutrient management in rice

Problem	Low yield of rice due to inadequate use of NPK fertilizer
Thematic area	Nutrient management
Source of tech.	IGKV, Raipur
Farmers Practice (T ₁)	Application of inadequate NPK dose of fertilizer
Assessed recommended practice (T ₂)	100% NPK-optimal dose (120 N: 60 P₂O₅:40 K₂O kg ha⁻¹)
No. of Trials (Replication)	20
Parameters recorded	No. of effective tillers m⁻², Yield (q ha⁻¹),

Result

Treatment	Yield (q ha⁻¹)	% change in Yield	Parameter (No. of effective Tillers m⁻²)	% change in Parameter	Gross Return Rs. ha⁻¹	Net Return Rs ha⁻¹	B:C Ratio
T₁	36.5	19	12.3	16.66	71250	38100	1.84
T₂	43.4		14.9		808000	51250	2.21

Title - Assessment of 100% NPK-optimal dose recommendation under nutrient management in rice



Farmers meeting



Input Distribution



Transplanting



**Plant protection
measures**

Title - Assessment of 100% NPK-optimal dose recommendation under nutrient management in rice



100% NPK



Field day



News media coverage

Title - Assessment of soil test based nutrient management in wheat (TY-30 q ha⁻¹)

Problem	Low yield of wheat (GW-273) due to imbalance and inadequate use of fertilizer
Thematic area	Nutrient management
Source of tech.	IGKV, Raipur
Farmers Practice (T ₁)	Application of NPK Kg ha⁻¹ without soil test based
Assessed recommended practice (T ₂)	Soil test based nutrient management
No. of Trials (Replication)	5
Parameters recorded	No. of effective tillers m⁻², Yield (q/ha)

Result

Treatment	Yield (qha⁻¹)	% change in Yield	Parameter (No. of effective Tillers m⁻²)	% change in Parameter	Gross Return Rs. ha⁻¹	Net Return Rs ha⁻¹	B:C Ratio
T₁	24.2	15	23	19.03	62400	37450	1.69
T₂	28.7		28		81250	54450	1.98

Soil Testing Report

S.N.	Farmer's name	Soil Available NPK (Kg ha ⁻¹)			Farmer's fertilizer dose (Kg ha ⁻¹)			STBFR dose for TY (30 q ha ⁻¹)			Yield FP (q ha ⁻¹)	Yield STBFR dose (q ha ⁻¹)
		SN	SP	SK	FN	FP	FK	FN	FP	FK		
1	Bhavar Singh Nag/ Indal	131.7	11.9	350.4	90	50	25	178.0	52.7	58.5	22.80	27.2
2	Firtu Ram Sori/ Bijuram	153.7	16.9	453.1	90	50	25	165.0	40.8	48.2	25.10	30.3
3	Durjan Ram Sori/ Kunwar Singh	147.4	12.0	382.1	90	50	25	168.7	52.3	55.3	23.80	28.5
4	Gomti Sori/ Mayaram	141.1	11.9	423.2	90	50	25	172.4	52.6	51.2	25.70	29.1
5	Kashiram/ Bir Singh	147.4	10.2	412.3	90	50	25	168.7	56.6	52.3	23.60	28.3

Fertilizer adjustment equation used for desired yield target are:

$$\mathbf{FN = 8.54 T - 0.59 SN - 0.50 FYM}$$

$$\mathbf{FP = 2.70 T - 2.37 SP - 0.18 FYM}$$

$$\mathbf{FK = 3.12 T - 0.10 SK - 0.09 FYM}$$

Note: 1 t FYM acre applied on each FLDs

Title - Introduction of soil test based nutrient management in wheat (TY-30 q ha⁻¹)



Input distribution



Line sowing



STBFR practices



STBFR practices

Title - Assessment of 100% NPK-optimal dose recommendation under nutrient management in wheat

Problem	Low yield of wheat due to inadequate use of NPK fertilizer
Thematic area	Nutrient management
Source of tech.	IGKV, Raipur
Farmers Practice (T ₁)	Application of inadequate NPK dose of fertilizer
Assessed recommended practice (T ₂)	100% NPK-optimal dose (100 N: 60 P ₂ O ₅ :40 K ₂ O kg ha ⁻¹)
No. of Trials (Replication)	20
Parameters recorded	No. of effective tillers m ⁻² , Yield (q ha ⁻¹),

Result

Treatment	Yield (q ha ⁻¹)	% change in Yield	Parameter (No. of effective Tillers m ⁻²)	% change in Parameter	Gross Return Rs. ha ⁻¹	Net Return Rs ha ⁻¹	B:C Ratio
T ₁	18.4	20	10.8	16.66	41760	15350	1.58
T ₂	22.2		12.6		53280	25180	1.90

Title - Assessment of 100% NPK-optimal dose recommendation under nutrient management in wheat



PHT –Soil Sampling



Input Distribution



Seed treatment



Line sowing

Title - Assessment of 100% NPK-optimal dose recommendation under nutrient management in wheat



100% NPK



Field day



News media coverage

Cluster Demonstration

Cluster Demonstration on Blackgram

Crop Demonstration	Area (ha)	Number of Farmers	Farmer's Yield (q/ha)	RP Yield (q/ha)	FP		RP	
					Net Return (Rs./ha.)	B:C Ratio	Net Return (Rs./ha.)	B:C Ratio
Black gram	20	50	4.5	6.67	12100	1.69	24522	2.26



Technology demonstrate - improved variety (Indira Urd Pratham), Seed treatment (carbendazine 3g/kg seed), line sowing, weed management & Plant protection

Cluster Demonstration on Horse gram

Crop Demonstration	Area (ha)	Number of Farmers	Farmer's Yield (q/ha)	RP Yield (q/ha)	FP		RP	
					Net Return (Rs./ha.)	B:C Ratio	Net Return (Rs./ha.)	B:C Ratio
Horse gram	20	50	3.9	5.19	10650	1.72	16935	2.01



Technology demonstrate - Improved variety (Indira Kulthi 1), Seed treatment (carbendazine 3g/kg seed), line sowing, weed management & Plant protection

Cluster Demonstration (Rabi season)

Crop Demonstration	Area (ha)	Number of Farmers	Farmer's Yield (q/ha)	RP Yield (q/ha)	FP		RP	
					Net Return (Rs./ha.)	B:C Ratio	Net Return (Rs./ha.)	B:C Ratio
Chick pea	20	50	5.8	7.64	12834	1.733	20657.2	2.070



Technology demonstrate -Improved variety (Indira Chana 1), Seed treatment, Line sowing, Disease and pest management

Cluster Demonstration (Rabi season)

Crop Demonstration	Area (ha)	Number of Farmers	Farmer's Yield (q/ha)	RP Yield (q/ha)	FP		RP	
					Net Return (Rs./ha.)	B:C Ratio	Net Return (Rs./ha.)	B:C Ratio
Linseed	20	50	4.9	7.21	11650	1.761	21155	2.144



Technology demonstrate - Improved variety (RLC 133), Seed treatment, Line sowing & Pest management

Seed Production during 2022

Season	Name of Crop	Variety	Area (ha)	Production (q)	Category
Kharif	Paddy	Vikram TCR	1.568	51.00	FS
Kharif	Paddy	CG Zinc rice 1	2.236	49.20	FS
Kharif	Paddy	CG Devbhog	1.50	44.70	FS
Kharif	Paddy	CG Devbhog	4.00	89.90	CS
Kharif	Paddy	Chirainakhi	0.20	3.50	TL
Kharif	Paddy	MTU1318	0.20	6.00	TL
Kharif	Paddy	Swarna	0.20	4.50	TL
Kharif	Paddy	CG Dhan 1919	0.30	3.30	TL
Kharif	Ragi	CG Ragi 1	0.40	0.43	FS
Kharif	Pigeon pea	Rajiv lochan	0.20	1.00	FS
Rabi	Black gram	Indira Urd 1	1.00	Harvesting is in progress	CS
Rabi	Ragi	CG Ragi 1	1.00		FS
Rabi	Safflower	CG Kusum	0.40		CS
Rabi	Maize	DKC 9081	1.00		

Vegetable Seed Production during 2022-23

Name of Crop	Variety	Type of Seeds	Production (q)
Turmeric	Roma	CS	27 q
Turmeric	Narendra Haldi 1	TL	13 q
Elephant footyam	Gajendra	TL	12 q
Sweet Potato	Indira madhur	TL	50000 nos
Colocasia	Indira Arvi 1	FS	4 q
Okra	Arka Anamika	TL	0.25
Garden pea	Arkil	FS	0.37
Methi	RMT 305	FS	0.10
Redish	Pusa chetki	TL	0.10

Production during 2022

Major group/class	Name of Crop	Variety	Nos.
Fruit	Mango	Dashari, Amrapalli, Langra, Mallika	7000
Fruit	Guava	L-49	3200
Vegetables	Brinjal	Pant Samrat, Indira Safed	9230
Vegetables	Tomato	Arka Rakshak	12100
Vegetables	Chilli	Ananya	6325
Vegetables	Cauliflower	Snowball	14504
Vegetables	Cabbage	NS 60	12410
Vegetables	Onion	Nasik red	432000
Flower	Marigold	Local Narayanpuri	8500
Flower	Zinia	Zahara mix	1000
Flower	Durenta	Local	1500
Flower	Eklipha	Local	1080
Fodders	Napier Grass	CO-2	1700

Production during 2022

Particular	Breed	Quantity (no)
Chicks	Kadaknath	52510
Chicks	Quail	5600
Ducklings	White pekin and khaki campbell	258
Calf	Sahiwal/Gir	5
Kids	Sirohi	4
Milk	-	5890 litre

No. of Trainings (2022-23)

Particulars	No. of Trainings	No. of Courses	Duration of training (days)	Expected No. of participants
Farmers and Farm women	91	91	1 day	3140
In-service personnel	4	4	2 days	210
Rural youth	18	18	3, 5 days	564
Skill training	8	8	3 days	256
Sponsored Training	2	2	1 days	61
PMKVY	2	2	27 days	40
Total	125	125	-	4271

Training programmes



राजपुर, बुधवार, 15 फ़रवरी, 2022 | 15

महिला समूह को लघु धान्य प्रसंस्करण का दिया प्रशिक्षण

महिला समूहों को स्थानीय संयंत्रों में प्रशिक्षण देकर लघु धान्य प्रसंस्करण का प्रचार प्रसारित करने का प्रयत्न किया जा रहा है।

कृषि विभाग के डी.आर.आर. केंद्र, राजपुर में महिला समूहों को लघु धान्य प्रसंस्करण का प्रशिक्षण दिया गया। प्रशिक्षण में कृषि अधिकारियों के नेतृत्व में 'नॉन-हार्बर' लघु धान्य प्रसंस्करण के उपकरण एवं प्रसंस्करण के विभिन्न चरणों में उन्हें जानकारी दी गई। प्रशिक्षण में महिला समूहों को लघु धान्य प्रसंस्करण के महत्व के बारे में बताया गया।

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कृषि विकास चिराग परियोजना अंतर्गत तीन दिवसीय मास्टर ट्रेनरों को दिया प्रशिक्षण

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कृषि विकास चिराग परियोजना अंतर्गत तीन दिवसीय मास्टर ट्रेनरों को दिया प्रशिक्षण

कृषि विकास चिराग परियोजना अंतर्गत तीन दिवसीय मास्टर ट्रेनरों को दिया प्रशिक्षण



Crop Doctor App

Total Query	Resolve	Pending
55	55	0

Extension activities 2022-23

Activity	No. of Programme	Participants
Kisan Mela	1	1233
Plant/animal health camps	1	144
Awareness programme	10	352
Diagnostic visits	84	670
Exhibition	15	15690
Exposure visits	2	43
Farmers visit to KVK	57	9810
Field Day	5	497
Group Meetings/Discussion	6	412
Kisan Ghosthi/Sammelan	8	483
Lectures delivered as resource persons	2	165
Mahila Mandals conveners meetings	4	64
Method Demonstrations	17	310
Self Help Group conveners meetings	4	63
Extension literature	4	500
Celebration of important days	9	418
Total		33854

Extension activity



Extension activity



PM Event & Special Day Celebration



गाजर घास उन्मूलन जागरूकता सह कृषक प्रशिक्षण का आयोजन

कांकेर /चतीसगढ़ एकरसेर

कृषि विज्ञान केन्द्र कांकेर एवं अखिल भारतीय अनुसंधान परिषदवार खरपतवार प्रबंधन के संयुक्त तत्वाधान में 16 से 22 अगस्त तक मनाये जाने वाले गाजर घास उन्मूलन साहज अंतगत आज 17 अगस्त को विकासखण्ड चारामा के ग्राम पंचायत भैसाकट्टा के ग्राम बांडाटोला में एक दिवसीय गाजरघास उन्मूलन जागरूकता सह कृषक प्रशिक्षण का आयोजन किया गया, जिसमें कृषि विज्ञान केन्द्र कांकेर के वरिष्ठ वैज्ञानिक डॉ. बोरबल साहू द्वारा खरीफ फसलों में खरपतवार प्रबंधन की जानकारी दी गई।

अखिल भारतीय अनुसंधान परिषदवार खरपतवार के वरिष्ठ वैज्ञानिक डॉ. श्रीकान्त चितले द्वारा गाजर घास की पहचान एवं उसके रोकथाम के उपाय के विषय में विस्तृत जानकारी दिया गया। सस्य विज्ञान के डॉ. नितिश तिवारी द्वारा गाजर घास से मानव समाज पर होने वाले हानिकारक



प्रभाव एवं उनसे बचाव के विषय में जानकारी दी गई तथा गाजर घास के निवर्णन के जैविक विधि के रूप में मैक्सिकन बोटल कोट के उपयोग तथा रासायनिक नियंत्रण के रूप 2-4क् या मैट्रिब्यूजीन शाकनासी के बारे में बताया गया।

डॉ. सी एल ठाकुर ने बताया कि गाजरघास पशुओं के लिए अत्यधिक विषाक पीषा होता है, जिसके कारण दुधारू पशुओं के दुध उत्पादन पर प्रभाव पड़ता है, गाजरघास के तैजी से फैलने के कारण अन्य उपयोगी वनस्पतियां खत्म होने लगती हैं। जैव विविधता के लिए गाजर घास एक बहुत बड़ा खतरा है, जिसके कारण फसलों की उत्पादकता कम हो जाती है। पिछले कुछ

वर्षों से इसका प्रकोप सभी प्रकार के खद्यान फसलों, सब्जियों एवं उद्यानों, सड़क के किनारे, अनुपयोगी भूमि तथा रहवासी क्षेत्रों में भी हो रहा है। यंग प्रोफेशनल डॉ. छत्रपाल पुहुव द्वारा कृषि उपयोगी मोबाईल एप क्राफ डॉक्टर एवं ई-हाट एप को जानकारी प्रदान की गई। कार्यक्रम में ग्राम के प्रगतिशील कृषक श्री रामदेव पटेल, श्री कुलेधर बघेल, श्री जागदीश राम, श्री देवराज कुंजाम सहित 55 कृषक उपस्थित थे एवं समय-समय पर उधानिकी विभाग के गौतम साहब द्वारा कृषको के लिए जागरूकता अभियान चलाया जा रहा एवं किसानों को खरपतवार के बारे में बताया जा रहा है।

Farmer Producer Organization



Training to farmers



1 FPO Registered For Minor Millet Production and processing



GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS

Central Registration Centre

Certificate of Incorporation

(Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 15 of the Companies (Incorporation) Rules, 2014)

I hereby certify that BASTARA AGRO PRODUCER COMPANY LIMITED is incorporated on this TWENTY THIRD day of MARCH TWO THOUSAND TWENTY THREE under the Companies Act, 2013 (18 of 2013) and that the company is Company limited by shares

The Corporate Identity Number of the company is **U01611CT2023PTC014377**

The Permanent Account Number (PAN) of the company is **AALCB4522E***

The Tax Deduction and Collection Account Number (TAN) of the company is **JBPB055558A***

Given under my hand at Manesar this TWENTY THIRD day of MARCH TWO THOUSAND TWENTY THREE

Document certified by DS MINISTRY OF CORPORATE AFFAIRS to mca.gov.in

Digitally signed by DS MINISTRY OF CORPORATE AFFAIRS 10
Date: 2023.03.24 12:55:38 IST

Rajender Kumar

Assistant Registrar of Companies/ Deputy Registrar of Companies/ Registrar of Companies

For and on behalf of the Jurisdictional Registrar of Companies

Registrar of Companies

Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on mca.gov.in

Mailing Address as per record available in Registrar of Companies office:

BASTARA AGRO PRODUCER COMPANY LIMITED
C/O KISHAN VIKAS SAMITI GOTULMUNDA,VILLAGE GHOTULMUNDA POST TARAGHOTIA BLOCK DURGKONDAL,Kanker,Kanker-494334,Chhattisgarh

*as issued by Income tax Department



Seed hub 2022-23

Season	Crop	Variety	Target (q)	Achievement (q)
Kharif	Black gram	Indira Urd Pratham	1000 q	55.00
Kharif	Horse gram	Indira Kulthi 1		32.00*
Kharif	Horse gram	CG Kulthi 2		2.5*
Rabi	Chickpea	Indira Chana 1, CG Chana2, JG 36, RVG 202		87.00*
Summer	Green Gram	MH 421		Awaited
Summer	Black gram	Indira Urd Pratham		Awaited

* Seed Procurement is in progress



Progress of Restructured National Bamboo Mission

Plantation of big nursery at KVK farm

Sl.No.	Variety	Area (ha.)	No. of plants	Survival %
1	Tulda	0.50	400	95%
2	Balkua	0.25	100	98%
3	Valgaris	0.25	100	95%
	TOTAL	1.00	600	



Progress of DAMU 2022

Forecasting service district and block level (2022-23) (April-2022 To March- 2023)

Particulars	Details
AAS bulletins were prepared every Tuesday & Friday and disseminated to the farmers by KVK	District level – 98
No of AAS bulletins were prepared using Agromet-DSS in English	District level – 98
No of AAS bulletins were prepared using Agromet-DSS in Hindi/ Local Language	District level – 98

Particulars	Details
No of person receiving advisories and forecast /AAS under DAMU	<p style="text-align: center;">2477 (264-Supporting Dept.)</p>
Total No of Gram panchayat in district	<p style="text-align: center;">427 Village (1083) Inhabitate village (1053)</p>
No. of Gram panchayat covered in district receiving advisories and forecast /AAS under DAMU	<p style="text-align: center;">427</p>

Particulars	Details
Methodology adopted for AAS dissemination	<ol style="list-style-type: none">1. News paper2. Whats app Group3. Mobile msg4 Through Progressive Farmers5. Agriculture and other allied Department6. emails

क्र	वि.ख.	व्हाट्सएप ग्रुप	कृषक संख्या	कुल कृषक संख्या
1	कांकेर	6	1136	18498
2	चारामा	4	416	23308
3	नरहरपुर	3	173	22446
4	भानुप्रतापपुर	4	197	16003
5	दुर्गकोंदल	3	142	12071
6	अंतागढ़	3	97	13308
7	कोयलीबेडा	3	316	28129
8		26	2477	133763

जिले में हल्की बारिश की संभावना

कांकेर। भारत मौसम विज्ञान विभाग द्वारा जारी मौसम पूर्वानुमान के अनुसार अगले पांच दिनों में 0.9 से 11 दिसम्बर के मध्य कांकेर जिले के कुछ स्थानों पर बहुत हल्की वर्षा होने की संभावना है। आसमान में आंशिक रूप से बादल छाये रहने के साथ अधिकतम तापमान 28.0 से 29.0 सेंटीग्रेड और न्यूनतम तापमान 12.9 से 16.0 सेंटीग्रेड सुबह की हवा में 85 प्रतिशत आर्द्रता और शाम की हवा में 60 प्रतिशत आर्द्रता तथा आने वाले दिनों में हवा उत्तर-पूर्व दिशा से 4.0 किलोमीटर प्रति घंटे की गति से चलने की संभावना है। कृषि विज्ञान केन्द्र कांकेर के वरिष्ठ

वैज्ञानिक डॉ. बीरबल साहू ने जिले के किसान भाईयों को सलाह दी है कि कटी हुई फसलों, अनाज, बाज तथा उर्वरकों से भरे बोरो तथा पशुओं के सूखे चारों को सुरक्षित सूखे स्थानों पर ढक कर रखें। धान उपजाने केन्द्रों में अनाज से भरे बोरो को ढकने की व्यवस्था बनाये रखें। गोभीवर्गीय फसलों को जल्द से जल्द तोड़ाई करें, बदली के मौसम को देखते हुए दलहन, तिलहन एवं सब्जी वर्गीय फसलों में माहू प्रकोप की आशंका है इसलिए लगातार फसलों की निगरानी रखें एवं प्रकोप दिखने पर नीम आधारित कोटनाशक का छिड़काव करें।

मौसु का प्रभाव - अगले दो दिनों तक मौसम ऐसा ही बने रहने के आसार, दिन के साथ ही रात के तापमान में हुई बढ़ोतरी कांकेर शहर में जोरदार बारिश, बाकी जगह बून्दाबांदी

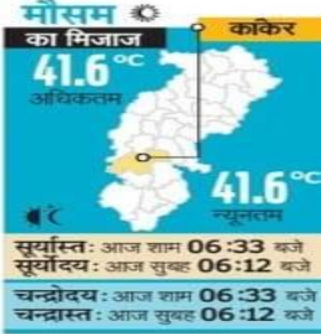
भारत न्यूज | कांकेर
कांकेर को खाड़ी से रूढ़ तक पहुंची चक्रवाती तूफानी चक्र के प्रभाव से अब तक जिले में बादल छाए हुए थे और हल्की बूंदाबांदी भी हो रही थी। लेकिन सोमवार दोपहर 2 बजे कांकेर शहर का मौसम अचानक बदल गया। आसमान में काले घने बादल छा गए। शुरु में थोड़ी बूंदा बांदी से बरिश हुई लेकिन आगे चंडे बादल बरिश तेज हो गई और तीन चंडे तक जोरदार बारिश होती रही। कांकेर की बाकी जगह ये ही कांकेर जिले का जोरदार बारिश के 10 दिनों के अंतिम चंडे हुए। जिले के ये क्षेत्र स्थानों में बादल ऊपर छाए रहे, बाकी सभी चक्रवाती घने हल्के बारिश नहीं हुई। मौसम विभाग के अनुसार कांकेर को खाड़ी में बने

सिस्टम के प्रभाव से जिले में अगले दो दिनों तक बारिश की संभावना है। कांकेर को खाड़ी से रूढ़ तक पहुंचने के तबिय क्षेत्र में बने सिस्टम मैन्डू के दक्षिण भाग में बारिश हो रही है। इसका कारण अंतर अंतर कांकेर शहर में भी दिख रहा है। आसमान में बादल छाए रहने के कारण डेड का अंतर कमजोर चढ़ गया है। दिन में तो तेज गर्मी का अनुभव हो रहा है। रात में भी न्यूनतम तापमान 21 डिग्री के आसपास बना रहता है। दिन का तापमान भी बढ़कर 31 डिग्री तक पहुंच गया है। मौसम विज्ञान विभाग के अनुसार 11 से 14 दिसंबर के बीच बारिश की संभावना जलाई थी। अगले दो दिन 13 तथा 14 दिसंबर को जिले में बारिश की संभावना बनी हुई है।



सोमवार को कांकेर शहर और आसपास के क्षेत्र में हुई बारिश।

मौसम बदलने से बढ़ गया न्यूनतम तापमान
मौसम वैज्ञानिक हेमल भुआर्य ने कहा कि बारिश के रूढ़ व कांकेर को खाड़ी में बने चक्रवाती घने बारिश में दिख रहा है। अगले दो दिन भी मौसम इसी प्रकार बने रहने तथा बारिश की संभावना है।



न्यूज 2 मिनट में आगामी दिनों में होगी बारिश

नुकसान: 6 करोड़ से अधिक के धान का नहीं किया गया उलाह ओलावृष्टि से सब्जी की फसल चौपट सबसे अधिक आम के फल पर प्रभाव

कांकेर, नवीनार जोरदार ओलावृष्टि से (कांकेर) की फसल चौपट हो गई। काले आकाश के तहत प्रचंड बारिश हुई है। मौसम विभाग ने अक्टूबर जली काले हुए काला कि अती चढ़ पांडित्यी तक मौसम बदल रहा है। बारिश के बाद आसानी से फसल नष्ट हो गई। जल, धान खरीदी बंद होने के डर में किसानों को फसल के 20 उपजाने केन्द्रों में 25 टन कृषि उपकरण धान का उलाह नहीं हो सका है। 6 करोड़ का धान खेतों का क्षति है। 16 करोड़ के धान की निर्यात का धान उलाह नहीं कर रहे हैं।



कांकेर, बारिश के बाद राफ्ट पर के धान ओलावृष्टि से इस तरह का क्षति है।

कांकेर, नवीनार जोरदार ओलावृष्टि से (कांकेर) की फसल चौपट हो गई। काले आकाश के तहत प्रचंड बारिश हुई है। मौसम विभाग ने अक्टूबर जली काले हुए काला कि अती चढ़ पांडित्यी तक मौसम बदल रहा है। बारिश के बाद आसानी से फसल नष्ट हो गई। जल, धान खरीदी बंद होने के डर में किसानों को फसल के 20 उपजाने केन्द्रों में 25 टन कृषि उपकरण धान का उलाह नहीं हो सका है। 6 करोड़ का धान खेतों का क्षति है। 16 करोड़ के धान की निर्यात का धान उलाह नहीं कर रहे हैं।

कांकेर, नवीनार जोरदार ओलावृष्टि से (कांकेर) की फसल चौपट हो गई। काले आकाश के तहत प्रचंड बारिश हुई है। मौसम विभाग ने अक्टूबर जली काले हुए काला कि अती चढ़ पांडित्यी तक मौसम बदल रहा है। बारिश के बाद आसानी से फसल नष्ट हो गई। जल, धान खरीदी बंद होने के डर में किसानों को फसल के 20 उपजाने केन्द्रों में 25 टन कृषि उपकरण धान का उलाह नहीं हो सका है। 6 करोड़ का धान खेतों का क्षति है। 16 करोड़ के धान की निर्यात का धान उलाह नहीं कर रहे हैं।

गाज गिरने की स्थिति में विशेष सावधानियों का पालन करने की सलाह

नवभारत | कांकेर,
www.navbharat.news

आधे घंटे हुई ओलावृष्टि
मौसम वैज्ञानिक हेमल भुआर्य ने कहा कि बारिश के रूढ़ व कांकेर को खाड़ी में बने चक्रवाती घने बारिश में दिख रहा है। अगले दो दिन भी मौसम इसी प्रकार बने रहने तथा बारिश की संभावना है।



गाज गिरने या बिजली चमकने की स्थिति में विशेष सावधानियों का पालन करने के लिए ग्रामीणों को सलाह देते हुए कृषि विज्ञान केन्द्र कांकेर के वरिष्ठ वैज्ञानिक डॉ. बीरबल साहू ने कहा कि तेज बारिश या गरज चमक के समय किसी भी परिस्थिति में खुले स्थानों में या बाहर न निकलें। सुबह के नीचे न रुके यदि संभव हो तो पक्के टीस छत या पक्के मकान में रुके, किसी भी धातु जैसे लोहा, टिन से बने छत, दरवाजे या खम्बे के समीप न रहे और न ही उन्हें छूएं। यदि खुले स्थान पर फंसे हो तो पैरों की एड़ियों को जोड़कर कान बंदकर उखड़ बैठ जायें, इससे प्रभाव कम पड़ता है। गजानों के समय किसी भी प्रकार के दूरसंवेदी उपकरणों जैसे मोबाइल, टी.वी., रेडियो को उपयोग न करें, यदि किसी व्यक्ति को गाज गिरने से क्षति पहुंचती है तो प्राथमिक चिकित्सा हेतु तत्काल समीपस्थ स्वास्थ्य केन्द्र में ले जायें,

कांकेर, भारत मौसम विज्ञान विभाग क्षेत्रीय मौसम केन्द्र रायपुर द्वारा जारी मध्यम अवधि के मौसम पूर्वानुमान के अनुसार 5 दिनों में कांकेर जिले के कुछ स्थानों पर बहुत हल्की बारिश होने की संभावना है। आसमान में आंशिक रूप से बादल छाए रहने के साथ अधिकतम तापमान 34-35 डिग्री और न्यूनतम तापमान 16-17 डिग्री रहेगा। आने वाले दिनों में हवा उतर पूर्व दक्षिण दिशाओं से 3 किमी प्रति घंटे की गति से चलने की संभावना है। कृषि विज्ञान केन्द्र कांकेर द्वारा कृषकों को परामर्श दी जाती है कि कटी फसलों तथा उर्वरकों से भरे बोरो को सुरक्षित स्थान पर ढककर रखें। वर्षा काल में किसी भी प्रकार की दवाओं का छिड़काव न करें। सब्जियों को तुरंत तोड़ाई करके वाजार में बेचें, वर्षा के समय पशुओं को चरने न छोड़ें, मौसम का प्रभाव जनसामान्य पर हो सकता है।

Progress of ARYA 2022

Enterprise wise progress under ARYA

Enterprise	No. Training	Total No of Youths trained	No. of units established	Average Size of unit
Kadaknath Poultry Rearing	2	60	3	500 birds
Goat farming for kids and meat	2	60	3	5+1 per unit
Entrepreneurship on Lac production and processing	2	60	1	-
Processing and value addition of scented rice and minor millet	2	60	2	2 Ragi Thresher



Training to farmers



Established Unit

Skill Training (PMKVY)

Title of Training	No. Training	Duration	No. of Trainees	Remark
Backyard Poultry Farmer	1	21 March 2023 to 16 April 2023	20	Assessed
Mushroom Grower	1	20 March 2023 to 15 April 2023	20	Assessed



Progress of Externally Funded programmes 2022-23

Scheme	Activities	Allotment (lakh)	Present Status
MGNREGA	Bhumi samtalikaran	0.41	Work is in progress
MGNREGA	Talab Gahrikaran Karya	7.14	Work is in progress
DMFT	Utility vehicle (KVK)	9.00000	Completed
DMFT	Utility vehicle (Gotulmunda)	9.00000	Completed
DMFT	Establishment of Quail Unit at Saradhunawagaon	4.30000	Work is in progress
DMFT	Fodder Production at Potgaon	1.52300	Work is in progress
DMFT	Pitching and toe wall contraction at KVK	8.00000	Work is in progress
DMFT	Processing Unit at Chilhati	9.65000	Work is in progress

Progress of NGGB

S.No.	Name of Gothan	Block	Activites
1	Gitpahar	Charama	Vermi compost, Mushroom, Kadaknath Poultry, Vegetable Production
2	Khairkheda	Charama	Vermi compost, Mushroom, Kadaknath Poultry, Vegetable Production
3	Aanwri	Charama	Vermi compost, Mushroom, Kadaknath Poultry, Vegetable Production
4	Saradhunawagaon	Charama	Vermi compost, Mushroom, Kadaknath Poultry, Vegetable Production
5	Bewarti	Kanker	Vermi compost, Mushroom, Community Vegetable Production, Layer Farming
6	Nawagaon Bhavgir	Kanker	Vermi compost, Mushroom, Vegetable Production
7	Potgaon	Kanker	Vermi compost, Layer Farming
8	Chilhati	Bhanupratappur	Vermi compost
9	Donde	Koylibeda	Vermi compost, Poultry rearing
10	Kulgaon	Kanker	Vermi compost, Mushroom, Vegetable Production, Layer Farming, Fish feed unit



Community vegetable

NGGB Activities



Hon'ble CM of CG. Govt. Shri Bhupesh Baghel interacted with SHG members of Egg production unit and Fish feed unit



Progress of TSP IPR Pulse 2022-23

	Variety	Area (ha.)	Yield Demo	Yield Farmer
Black gram	Indira Urd Pratham	12.00	30.00	6.33
Green Gram	MH 421	13.00	34.00	Awaited



Progress of Natural Farming 2022-23

Activities	No.	No. of Participants
Demonstration	8 Demo. Crop - Finger millet crop	8
Awareness programme	8	1183
Training programme	1	350



Progress of MIDH 2022-23

Crop	Target	Achievement
Turmeric	4 ton	4 ton
Seed spices	0.5 ton	0.5 ton



Demonstration of Drone Technology



Demonstrated
Area – 20 ha



Total village
covered - 4



खेतों में ड्रोन से दवा छिड़काव का किया गया प्रदर्शन



काठियागढ़ जिले के किसानों को कृषि क्षेत्र में आधुनिक यंत्र का उपयोग कर पौध संरक्षण पर कृषि अभियांत्रिकी वैज्ञानिक डॉ. नरेंद्र सायडड़े द्वारा ड्रोन से छिड़काव का प्रदर्शन कृषि विज्ञान केंद्र में किया गया। उन्होंने बताया ड्रोन के माध्यम से किसान दवाई एवं समय को बचत कर सटीकता से छिड़काव कर फसल उत्पादन में बढ़ोतरी कर सकते हैं। इससे जिले के कृषि अर्थ व्यवस्था में बढ़ोतरी हो सकती है। कृषि विज्ञान केंद्र के वरिष्ठ वैज्ञानिक डॉ. बोरबल साहू ने बताया ड्रोन द्वारा छिड़काव कर किसान फसल संरक्षण के समय होने वाले लवचा रोगर, जीवन हानि आदि को रोक जा सकता है तथा पौध संरक्षण में होने वाले अत्यधिक श्रम को भी कम किया जा सकता है। उप संचालक कृषि नरेंद्र नागेश ने कृषकों को ड्रोन से छिड़काव के लाभ एवं कृषि में उपयोगिता को जानकारी दी। इस दौरान वैज्ञानिक उषेंद्र नाग, डॉ. कोमल सिंह केराम, प्रखेत्र प्रबंधक प्रदीप देवांगन, उप प्रबंधक आकाश एवं जिले के 54 कृषक उपस्थित थे।



e-Extension

No. of farmers registered
on Mkisan portal

No. of farmers
registration

32000

No. of villages
covered

1064

No. of blocks
covered

07

No. of advisories
to be send

32

Whats app

No of group	No. of Farmers
33	3482

Facebook page

Name of page	No. of follower
Krishi Vigyan Kendra Kanker	2 k

YouTube page

No. of uploaded videos	No. of Viewers
06	5 k

← Krishi Vigyan Kendra... 🔍



**Krishi Vigyan Kendra
Kanker**

1.9K likes · 2K followers



Swachhata Pakhwada

Activities Swachhata Pledge,
Cleanliness drive,
Quiz competition

Solid waste management,
Swachhata Raili,



SATHI & Millet Mission

Proposal submitted to District administration

FOOTFALL OF FARMERS AT KVK

Total no. of farmers visited KVK Kanker during 2022-23 – 9810



Important visitors

Name of Visitor	Date of Visit	Designation
Shri Bhanupratap Singh	19.04.2022	Central Minister of State, Small and Medium Enterprises, Govt. Of India
Shri Mohan Mandavi	19.04.2022	MP, Kanker
Mr. Aaxar Patel	27.12.2022	National Consultant CHIRAG Project Mumbai,
Dr. A. K. Verma	26.11.2022	Director Extension Services, IGKV, Raipur



Status of Revolving fund 2022-23

Year	Opening balance	Receipts	Expenditure	Balance status
2022-23	28,46,827.5	10,61,5204	1,16,34,865.34	18,27,166.16

Reorganization



IGKV Award 2022 to Dr. N. H. Tayade, SMS

Exhibition



चिरौंजी प्रसंस्करण और विपणन के माध्यम से आदिवासी किसानों का आर्थिक सशक्तिकरण एवम सतत आजीविका सुरक्षा



संकलन एवं संपादन

डॉ. नरेन्द्र हरिदास तायडे
सुरेश कुमार मरकाम
सूर्यम दौरा
हेमन्त कुमार भुआर्य

मार्गदर्शन

डॉ. बीरबल साहू
(वरिष्ठ वैज्ञानिक एवम प्रमुख)



इंदिरा गाँधी कृषि विश्वविद्यालय
कृषि तकनीकी अनुप्रयोग अनुसंधान संस्थान (भा.कृ.अ.परि.) अंचल - IX



कृषि विज्ञान केंद्र , काफेइ

Publication

Action Plan 2023

Summary of Activities planned

Particulars	Proposed No.	No. of Participants
OFT	12	60
FLD	16	130
Training	43	1800
Extension Activities	131	6915
Seed production	451 q	
Planting Material	6500 No.	
No. of Sapling	8,00,000 No.	
Live stock (Kadaknath)	60,000 chicks	
Live stock (J. Quail)	15,000 chicks	
Soil sample	518	500

Suggestion by SAC Members

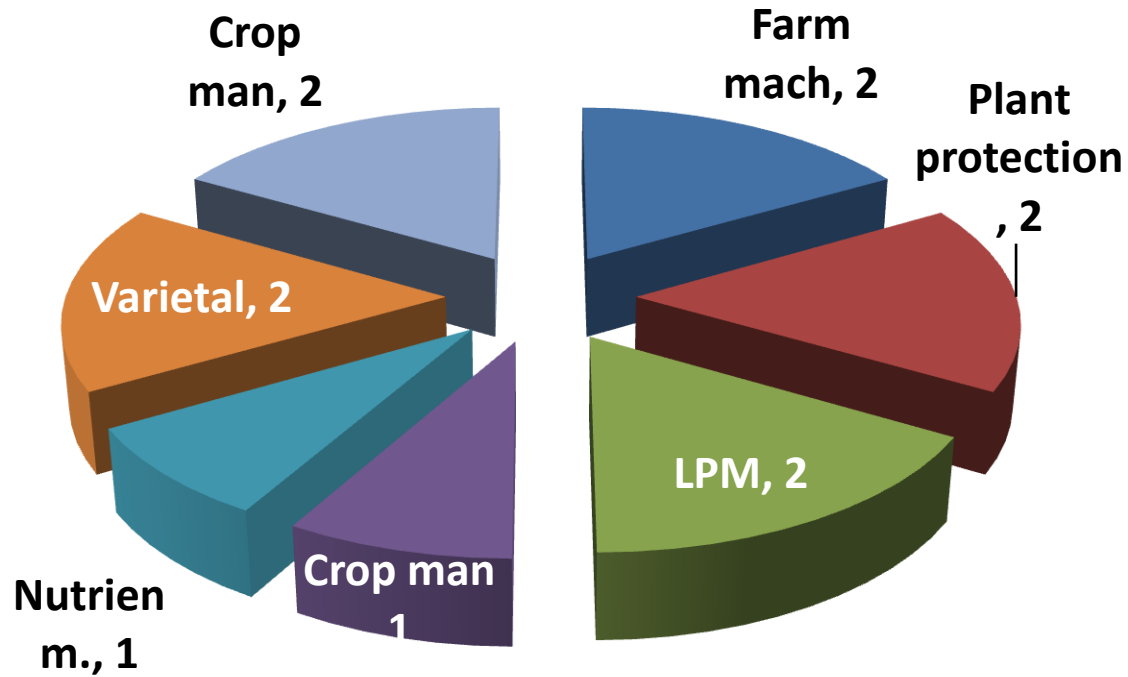
(SAC meeting on 29.07.2022)

Suggestion	Action
Formation of maize based FPO (District Collector)	Formation of FPO under process
Demonstration on mechanical threshing of millets crop (Progressive farmer)	Proposed in OFT
Demonstration/Promotion of Perennial vegetable crops (by-Dean CARS Kanker)	Proposed in FLD
Agriculture Engineer suggested for demonstration of Baller machine in guidance of KVK Scientist	Activity planned in FLD
Progressive asked for organizing training on Natural farming	Included in Action Plan under training, awareness and

Action Plan 2023

Name	Designation & Discipline	OFT	FLD	Farmer Training	In-service training
S. K. Markam	Horticulture	2	2	12	2
Dr. N. H. Tayade	FPME	2	2	10	-
Dr. D. Suryam Dora	LPM	2	2	14	1
Dr. K. S. Keram	Soil Science	2	2	18	-
Dr. C. L. Thakur	Agronomy	2	4	12	2
U. K. Nag	Plant protection	2	2	12	2
Hemant Bhuarya	Agromet	-	-	8	-

Proposed On Farm Trials for the year 2023



**Total OFTs –
12**

Varietal evaluation

	Rice
Title of on-farm trial	Assessment of improved variety of Rice MTU 1318
Problem diagnosed	Low yield
Farming situation	Irrigated
Production system and thematic area	Varietal evaluation
Farmers' practices	Rice variety Swarna
Details of technologies selected for assessment/refinement Treatments	T1 - Rice Variety MTU 1318
Source of technology	IGKV, Raipur
No. of farmers	5
Area of each trial	0.40
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Seed
Performance indicators Observation to be recorded	No of effective tiller/sqm, No. of grains per panicle, Panicle length cm, Yield (q/ha), B:C ratio
Cost of input	Rs. 1500/- per trial
Total cost	Rs. 7500.00

Crop Management

	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
Farming situation	Irrigated
Production system and thematic area	Crop management
Farmers' practices	No protocol for sowing in Rabi season
Details of technologies selected for assessment/refinement Treatments	T1 - 15 December T2 - 25 December
Source of technology	IGKV, Raipur
No. of farmers	5
Area of each trial	0.40
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Seed
Performance indicators Observation to be recorded	No of effective tiller/sqm, No. of Panicle per plant, Yield (q/ha), B:C ratio
Cost of input	Rs. 1500/- per trial
Total cost	Rs. 7500.00

Natural Farming

	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
Farming situation	Irrigated
Production system and thematic area	Soil health and nutrient management
Farmers' practices	No use of fertilizer
Details of technologies selected for assessment/refinement Treatments	T1- Nutrient management practices <ul style="list-style-type: none">• Seed treatment with Beejamrit@5 L/5kg seed• Jeevamrit @ 500 L/ha• Ghanjeevamrit @ 250 L/ha
Source of technology	IGKV, Raipur
No. of farmers	5
Area of each trial	0.40 ha
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Plastic drum, Besan, Jaggery
Performance indicators Observation to be recorded	No. of effective tiller/plant, yield q/ha, change in fertility (N,P,K & OC) status of soil, B:C Ratio
Cost of input	Rs. 1000/- per trial

Nutrient management

	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.
Farming situation	Irrigated under shade
Production system and thematic area	Soil health and nutrient management
Farmers' practices	Injudicious raw feeding material
Details of technologies selected for assessment/refinement Treatments	T1- 50% cow dung + 50% crop/plant residue T2- 60% cow dung + 40% crop/plant residue
Source of technology	NIRDPR Hyderabad (TS)
No. of farmers	5
Area of each trial	6' x 4' x 3'
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Earthworm (<i>E. Fetida</i>)
Performance indicators Observation to be recorded	Earthworm population/sqm, Duration of vermicomposting days.
Cost of input	Rs. 1000/- per trial
Total cost	Rs. 5000.00

Plant protection

	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
Farming situation	Irrigated
Production system and thematic area	Plant Protection
Farmers' practices	Inadequate use of either chemical insecticide or Bio control agent
Details of technologies selected for assessment/refinement Treatments	T1 - Use of <i>Metarhizium anisopliae</i> 10ml/litre
Source of technology	IGKV, Raipur
No. of farmers	5
Area of each trial	0.40 ha
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	<i>Metarhizium anisopliae</i>
Performance indicators Observation to be recorded	Insect infestation/spm, Yield q/ha, B:C Ratio
Cost of input	Rs. 1000/- per demonstration
Total cost	Rs. 5000.00

Plant protection

	Chickpea
Title of on-farm trial	Assessment of use of biocontrol agent in chickpea
Problem diagnosed	High infestation of wilt disease in chickpea
Farming situation	Irrigated
Production system and thematic area	Plant protection
Farmers' practices	Inadequate use of either chemical insecticide or Bio control agent
Details of technologies selected for assessment/refinement Treatments	T1- Use of <i>Trichoderma</i> (1:10 <i>Trichoderma</i>:cowdung) and <i>Pseudomonas</i>(10g/kg of seed talc based formulation) T2- Use of Carbendazime 12% + Mancozeb 63% wp 2g/kg seed
Source of technology	IGKV, Raipur
No. of farmers	5
Area of each trial	0.40 ha
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	<i>Trichoderma, Pseudomonas and Carbendazime</i>
Performance indicators Observation to be recorded	Insect infestation/spm, Yield q/ha, B:C Ratio
Cost of input	Rs. 1500/- per demonstration
Total cost	Rs. 7500.00

Animal Husbandry

	Quail
Title of on-farm trial	Assessment of growth rate of quail in different rearing system
Problem diagnosed	Slow growth and lower egg production in deep litter system
Farming situation	-
Production system and thematic area	Housing management
Farmers' practices	Deep litter system
Details of technologies selected for assessment/refinement Treatments	T1- Multi layer Cage system
Source of technology	DSVCKV, Durg
No. of farmers	5
Area of each trial	-
No of trial	5
No. of animals (if animals are part of OFT)	300 per trial
Critical input	Multi layer cage
Performance indicators Observation to be recorded	Weight gain in one month(kg/birds), Egg production 50 days onwards (no.)
Cost of input	Rs. 5000/- per trial
Total cost	Rs. 25000.00

Animal Husbandry

	Poultry
Title of on-farm trial	Assessment of IDM module against poultry diseases
Problem diagnosed	High mortality of poultry birds due to diseases
Farming situation	-
Production system and thematic area	Disease management
Farmers' practices	No vaccination & medicine
Details of technologies selected for assessment/refinement Treatments	T1- Timely vaccination Ranikhet (F-strain, Gambaro, Lasota & R2B), multivitamin
Source of technology	DSVCKV, Durg
No. of farmers	5
Area of each trial	-
No of trial	5
No. of animals (if animals are part of OFT)	50 birds
Critical input	Chicks & Vaccine
Performance indicators Observation to be recorded	Weight gain in three months (kg/birds) Morbidity (%),Mortality (%)
Cost of input	Rs. 4000/- per Trial
Total cost	Rs. 20000.00

Farm Mechanization

	Finger millet
Title of on-farm trial	Assessment of Ragi (Finger Millet) Thresher
Problem diagnosed	Threshing of Ragi is labour intensive work
Farming situation	Rainfed
Production system and thematic area	Farm mechanization
Farmers' practices	Manually
Details of technologies selected for assessment/refinement Treatments	T1- Finger Millet Thresher (1 hp electric motor)
Source of technology	OUAT, Bhubneswar
No. of farmers	5
Area of each trial	0.40
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Thresher
Performance indicators Observation to be recorded	Field capacity (q/hr), Labour saving (man hr), Threshing Efficiency%, Cleaning Efficiency %
Cost of input	Rs. 1500/- per trial
Total cost	Rs. 7500.00

Farm Mechanization

	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
Farming situation	Rainfed
Production system and thematic area	Farm mechanization
Farmers' practices	Broadcasting Sowing Method
Details of technologies selected for assessment/refinement Treatments	T1 - Tractor drawn planter for sowing of Kodo millet
Source of technology	IGKV, Raipur
No. of farmers	5
Area of each trial	0.40
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Seed, Planter
Performance indicators Observation to be recorded	Yield (q per ha.), Field capacity (ha/hr), Labour Saving(man hr)
Cost of input	Rs. 1500/- per trial
Total cost	Rs. 7500.00

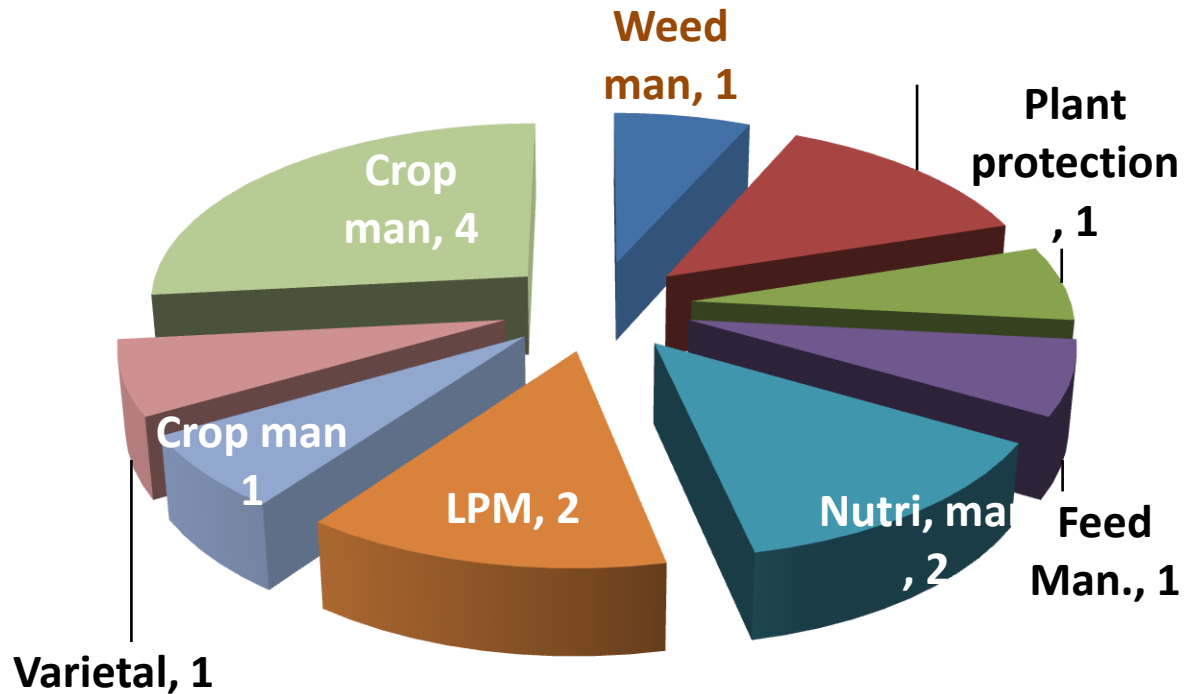
Varietal Evaluation

	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
Farming situation	Irrigated
Production system and thematic area	Varietal Evaluation
Farmers' practices	Hybrid variety available in Market
Details of technologies selected for assessment/refinement Treatments	T1 - Hybrid variety Arka Samrat
Source of technology	IIHR, Bangluru
No. of farmers	5
Area of each trial	0.20
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Seed
Performance indicators Observation to be recorded	Plant Height, No. of fruit per plant, Yield (q per plant),Yield q/ha, B:C Ratio
Cost of input	Rs. 400/- per trial
Total cost	Rs. 2000.00

Crop management

	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
Farming situation	Irrigated
Production system and thematic area	Crop management
Farmers' practices	Planting in June harvesting at Feb.
Details of technologies selected for assessment/refinement Treatments	T1- 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.
Source of technology	IGKV, Raipur
No. of farmers	5
Area of each trial	0.10 ha
No of trial	5
No. of animals (if animals are part of OFT)	-
Critical input	Planting material
Performance indicators Observation to be recorded	Plant Height, Stem girth, Yield per plant, Yield q/ha, Selling price, Shelf life tuber, B:C Ratio
Cost of input	Rs. 4000/- per trial
Total cost	Rs. 20,000.00

Proposed Front Line Demonstration for the year 2023



Total FLDs –
14

Plant protection

Crop	Rice
Thematic area	Disease management
Technology for demonstration	Demonstration of rice blast disease management through bio agent
Critical inputs	<i>Pseudomonas</i>
Season and year	Kharif 2023
Area (ha)	5.00
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration: <i>Pseudomonas</i> 10ml per litre water Local Check/ Farmer Practice: Improper use pesticides
Parameters identified	Yield (q/plants), Disease incidence %, B:C ratio
Cost of input	Rs. 750 per demonstration
Total cost	Rs. 7500.00
Extension and Training activities under FLDs	Training, Monitoring and observation, Field day

Natural Farming

Crop	Rice
Thematic area	Pest management
Technology for demonstration	Demonstration insect-pest management in rice under natural farming.
Critical inputs	Neemastra and Brahmastra
Season and year	Kharif 2023
Area (ha)	5.00
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration: Neemastra and Brahmastra (5-6 litre dissolved in 250 litre water) Local Check/ Farmer Practice: Improper use pesticides
Parameters identified	Yield (q/plants), Insect/pest incidence %, B:C ratio
Cost of input	Rs. 1000 per demonstration
Total cost	Rs. 10000.00
Extension and Training activities under FLDs	Training, Monitoring and observation, Field day

Nutrient Management

Crop	Rice
Thematic area	Nutrient Management
Technology for demonstration	Introduction of soil test based nutrient management in upland rice (T.Y. 40q/ha)
Critical inputs	Seed, Fertilizer, Plant protection Kit
Season and year	Kharif 2023
Area (ha)	4.00
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration: IPNS approach (STCR based fertilizer recommendation + 2 t FYM/ha)
	Local Check/ Farmer Practice: Imbalance use of chemical fertilizer
Parameters identified	Plant population/sqm, No. of tillers/sqm, Yield (q/ha), B:C Ratio, PHSTV
Cost of input	Rs. 4000/- per demonstration
Total cost	Rs. 40000.00
Extension and Training activities under FLDs	Training, Monitoring and observation, Field day

Nutrient Management

Crop	Maize
Thematic area	Nutrient Management
Technology for demonstration	Introduction of soil test based nutrient management in maize (T.Y. 60q/ha)
Critical inputs	Seed, Fertilizer, Plant protection measure,
Season and year	Kharif 2023
Area (ha)	4.00
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration: IPNS approach (STCR based fertilizer recommendation + 2 t FYM/ha) Local Check/ Farmer Practice: Imbalance use of chemical fertilizer
Parameters identified	Cob length (cm), No. of grains per cob, Yield (q/ha), B:C Ratio, PHSTV
Cost of input	Rs. 4000/- per demonstration
Total cost	Rs. 40000.00
Extension and Training activities under FLDs	Training, Monitoring and observation, Field day

Farm Mechanization

Crop	Rice
Thematic area	Farm Mechanization
Technology for demonstration	Introduction of Baler machine in rice crop.
Critical inputs	Baler machine
Season and year	Kharif 2023
Area (ha)	4.00
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration: Make bales by using baler machine for safe storage and easy handling
	Local Check/ Farmer Practice: Not collect residues after harvesting of paddy crop
Parameters identified	Capacity (bundles/hr), Avg. weight of bundle(Kg), Cost of operation (Rs/hr)
Cost of input	Rs. 1000/- per demonstration
Total cost	Rs. 10000.0
Extension and Training activities under FLDs	Monitoring and observation

Farm mechanization

Crop	Finger millet
Thematic area	Farm mechanization
Technology for demonstration	Introduction of tractor drawn planter for sowing of Finger millet
Critical inputs	Seed, Planter
Season and year	Kharif 2023
Area (ha)	4.00
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration: Tractor drawn planter for sowing millet crop
	Local Check/ Farmer Practice: Broadcasting Sowing Method
Parameters identified	Yield (q per ha.), Field capacity (ha/hr), Labour Saving(man hr)
Cost of input	Rs. 1500/- per demonstration
Total cost	Rs. 15000.00
Extension and Training activities under FLDs	Training, Monitoring and observation, Field day

Feed Management

Crop	Fodder crops
Thematic area	Feed Management
Technology for demonstration	Introduction of round the year fodder production model
Critical inputs	Seed/planting material
Season and year	Round the year
Area (ha)	1.00
No. of farmers/ demonstration	4
Data on parameter in relation to technology demonstrated	Demonstration: Hybrid Napier (Kharif) – Berseem (Rabi) – Cowpea (Summer) + hay and silage (maize)
	Local Check/ Farmer Practice: Natural grazing and stall feeding of paddy straw round the year
Parameters identified	Yield (q/ha), Milk production (litre/day), B:C Ratio
Cost of input	Rs. 4000/- per demonstration
Total cost	Rs. 16,000/- per demonstration
Extension and Training activities under FLDs	Training, Monitoring and observation, Field day

Crop Management

Crop	Finger millet
Thematic area	Crop management
Technology for demonstration	Demonstration of improved variety of Finger millet with ICM Practices
Critical inputs	Seed, Bio fertilizer
Season and year	Kharif 2023
Area (ha)	4.00
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration: Improved variety CG Ragi 2 with ICM
	Local Check/ Farmer Practice: Use of age old variety
Parameters identified	Plant population/sqm, No. of tillers/sqm, Yield (q/ha), B:C Ratio
Cost of input	Rs. 2000/- per demonstration
Total cost	Rs. 20,000.00
Extension and Training activities under FLDs	Training, Monitoring and observation, Field day

Crop Management

Crop	Kodo millet
Thematic area	Crop management
Technology for demonstration	Demonstration of improved variety of Kodo millet with ICM Practices
Critical inputs	Seed, Bio fertilizer
Season and year	Kharif 2023
Area (ha)	4.00
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	Demonstration: Improved variety Indira Kodo 1 with ICM Local Check/ Farmer Practice: Use of age old variety
Parameters identified	Plant population/sqm, No. of tillers/sqm, Yield (q/ha), B:C Ratio
Cost of input	Rs. 2000/- per demonstration
Total cost	Rs. 20,000.00
Extension and Training activities under FLDs	Training, Monitoring and observation, Field day

Weed Management

Crop	Maize
Thematic area	Weed management
Technology for demonstration	Introduction of Weed Management in Maize
Critical inputs	Herbicide
Season and year	Kharif 2023
Area (ha)	4.00
No. of farmers/ demonstration	10
Data on parameter in relation to technology demonstrated	<p>Demonstration:</p> <p>1 - Application of Pre emergence Atrazine @1 kg a.i. per ha</p> <p>2 - Application of Post emergence Tembotrion @125 ml a.i. per ha</p> <p>Local Check/ Farmer Practice: Farmers are not using herbicides</p>
Parameters identified	Weed biomass (sqm), Yield (q/ha), B:C ratio
Cost of input	Rs. 2000/- per Demonstration
Total cost	Rs. 20,000.00
Extension and Training activities under FLDs	Training, Monitoring and observation, Field day

Animal Husbandry

Enterprise	Goat
Thematic area	Housing management
Technology for demonstration	Low cost bamboo floor shed for goat
Critical inputs	Low cost bamboo floor shed
Season and year	2023
Area (ha)	-
No. of farmers/ demonstration	5
Data on parameter in relation to technology demonstrated	Demonstration: Low cost bamboo floor shed
	Local Check/ Farmer Practice: Kachha floor
Parameters identified	Body growth in six months (kg), Morbidity %, Mortality %
Cost of input	Rs. 6,000/- per demonstration
Total cost	Rs. 30,000.00
Extension and Training activities under FLDs	Training, Monitoring and observation

Animal Husbandry

Enterprise	Dairy animals
Thematic area	Nutritional management
Technology for demonstration	Demonstration of improved silage making technique from maize fodder
Critical inputs	Culture for making silage and Silage bag
Season and year	2023
Area (ha)	-
No. of farmers/ demonstration	5
Data on parameter in relation to technology demonstrated	Demonstration: Demonstration of silage making technique
	Local Check/ Farmer Practice: Feeding of low quality roughage
Parameters identified	Milk yield (litre), Cost saving (Rs.)
Cost of input	Rs. 4,000/- per demonstration
Total cost	Rs. 20,000.00
Extension and Training activities under FLDs	Training, Monitoring and observation

Crop Management

Enterprise	Marigold
Thematic area	Crop management
Technology for demonstration	Demonstration of pinching effect on yield of African Marigold
Critical inputs	Seed
Season and year	Rabi 2023
Area (ha)	0.20
No. of farmers/ demonstration	5
Data on parameter in relation to technology demonstrated	Demonstration: First pinching at 20 DAT, Second pinching 15 days after first pinching
	Local Check/ Farmer Practice: Non pinching
Parameters identified	Plant height, No. of Branches, Duration of Flowering, No of Flower per plant, Flower Yield per plant
Cost of input	Rs. 4,000/- per demonstration
Total cost	Rs. 20,000.00
Extension and Training activities under FLDs	Training, Monitoring and observation

Crop Management

Enterprise	Ivy Gourd
Thematic area	Intensive cropping
Technology for demonstration	Demonstration of Multi story cropping
Critical inputs	Planting material
Season and year	Kharif 2023
Area (ha)	0.10
No. of farmers/ demonstration	4
Data on parameter in relation to technology demonstrated	Demonstration: Ivy gourd along with Radish, coriander, Amaranthus
	Local Check/ Farmer Practice: Seasonal vegetable
Parameters identified	Economics, LER, B:C ratio
Cost of input	Rs. 5000/- per demonstration
Total cost	Rs. 20000.00
Extension and Training activities under FLDs	Training, Monitoring and observation

Activities to be conducted during International Year of Millets 2023

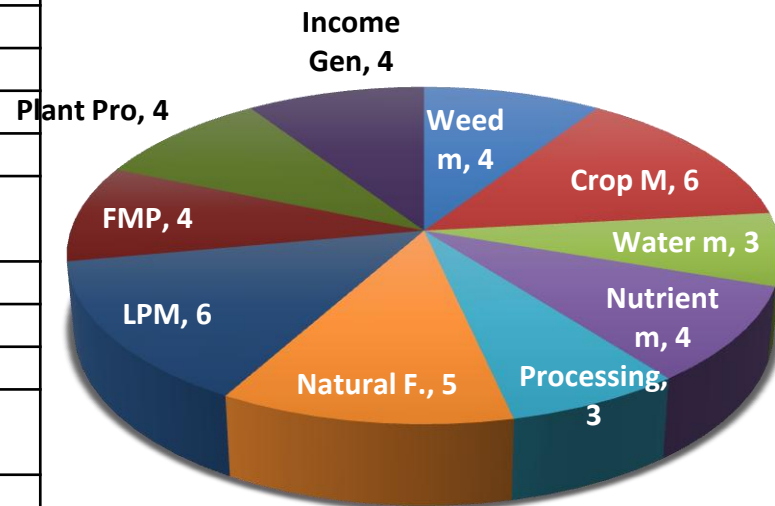
Activity	Month	Details	Expected No of participants/ beneficiaries
To be organized Awareness programme for farmers, College and School students	January, February, March	Three programmes per month	2000
Training on improved cultivation practices of millets	May, June	One day training program Five Trainings	500
Demonstration on Improved sowing technique, Improved variety	June, July	50 Demonstration	50
Training and demonstration on post harvest management	October, November	3 programmes	150
Seed Production programme by farmers participation	July - Nov	50 acre	50
To be organized millet recipe competition	8th March	One day programme	100 women

Extension Activities & Awareness programmes to be conducted by KVK

Details of Extension Activity	No. of activities	Expected No of farmers	Expected No of extension functionaries
Animal Health Camp	2	100	20
Monthly workshop	10	300	300
Awareness programme	15	800	50
Diagnostic visits	50	200	50
Exhibition	15	Mass	-
Exposure visits	5	250	-
Field Day	10	500	25
Group meetings	5	250	10
Kisan Ghosthi/Sammelan	5	500	20
Kisan Mela	2	3000	50
Method Demonstrations	5	250	10
FPO conveners meetings	2	60	10
Soil test campaigns	2	150	10
TV talks	5	Mass	-

Trainings to be conducted 2023

SN	Thematic Area	Month	Duration in days	Exp. Participants
1	Weed Management on rice and Black gram	June	1 day	30
2	Production technologies of millet	June	1 day	30
3	Crop Diversification in upland situation	June	1 day	30
4	Integrated Farming Systems	June	1 day	30
5	Fertigation in Micro irrigation	June	1 day	30
6	Seed production of pulses	June & October	2 days	60
7	Weed Management in chickpea	October	1 day	30
8	Importance of Soil & water conservation	May	1 day	30
9	Integrated nutrient Management in rice	July	1 day	30
10	Integrated nutrient Management in chickpea	November	1 day	30
11	Off season vegetables	May	1 day	30
12	Nursery Management of vegetables	July	1 day	30
13	Processing and marketing of Minor millet crops	December	1 day	30
14	Training and Pruning of mango orchard	March, April	2 days	60
15	Layout and Management of Orchards	May-June	1 day	30
16	Rejuvenation of old orchards	July	1 day	30
17	Processing of scented rice	November	1 day	30
18	Water management in Rabi crops	November	1 day	30
19	Integrated Nutrient Management in maize	November	1 day	30
20	Production and use of organic inputs	February	1 day	30



Total Course - 43
Total No. of Training - 60

SN	Thematic Area	Month	Duration in days	Exp. Participants
21	Management of micro nutrient deficiency in rice	September	1 day	30
22	Natural Farming	July-December	6 days	180
23	Dairy Management	July, October, March	3 days	90
24	Poultry Management	June, August, April	3 days	90
25	Animal Nutrition Management	February, March	2 days	60
26	Disease Management on goat	July	1 day	30
27	Importance of Farm machinery & its maintenance	May	1 day	30
28	Installation and maintenance of micro irrigation systems	November	1 day	30
29	Introduction of small tools and implements	December	1 day	30
30	Repair and maintenance of farm machinery and implements	June, December	2 days	60
31	Small scale processing and value addition	January	1 day	30
32	Post Harvest Technology of millet crops	December	1 day	30
33	Mushroom production technique	October	3 days	90
34	Honey production and processing technique	March	3 days	90
35	Insect pest management in rice	July - August	2 days	60
36	Insect pest management in chickpea	December	1 day	30
37	Insect pest management in vegetables	July	1 day	30
38	Insect pest management in Oilseed	December	1 day	30
39	Production technology of chickpea	October	1 day	30
40	Production technology of linseed	October	1 day	30
41	Production technology of Black gram and Horse gram	June	1 day	30
42	Production technology of perenial vegetable	June	1 day	30
43	Production technology of Tuber crops	May	1 day	30

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

Crop Category	Name of Crop	Name of Variety	Targeted Quantity (qt.)
Cereal	Wheat	Ambar	10
Oilseed	Linseed	RLC 133	5
Pulses	Lathyrus	Pratik	4
Oilseed	Mustard	Chattisgarh Sarson	4
Oilseed	Safflower	Chattisgarh Kusum	8
Cereal	Paddy	CG Zinc Rice	200
Cereal	Paddy	Vikram TCR	100
Cereal	Paddy	Devbhog	100
Cereal	Paddy	Chirainakhi	15
Cereal	Paddy	CG Ragi 2	5
	Total	-	451
Grafted Fruit Plant	Mango, Guava, Custard apple, Sapota	Dashheri, Amrapali, Langda, Bombay green, Nandi raj L49, Cricket ball	6500
Vegetable saplings	Cucurbitaceous	-	800000

Planning for Crop Cafeteria 2023

Total Area of Crop cafeteria: 1000 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

	Particulars /details	Area/ Capacity	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		9 tanks	500 q
Earth Worm (E. Fetida)			100 kg
Azola production unit	Used as feed at KVK farm	3 tanks	800 kg

PROPOSED PROGRAMME FOR CFLD 2023

Technology to be demonstrated -

Improved variety, Seed treatment, Line sowing, Weed management and IPM practices

Name of Crop	Variety	No of Demonstration	Area to be Covered
Pulses			
Black gram	Indira Urd 1	125	50 ha
Horse gram	Indira Kulthi 1	50	20 ha
Chick pea	Indira Chana 1	125	50 ha
Green gram	IPM 2-3	25	10 ha
Oilseeds			
Linseed	Indira Alsi 32/ RLC 133	100	40 ha
Niger	JNC 6/9	25	10 ha

PROPOSED PROGRAMME FOR CLUSTER DEMONSTRATION OILSEED – 2023

Name of Crop	Variety	No of Demonstration	Area to be Covered	Technology to be demonstrated
Linseed	Indira Alsi 32/ RLC 133	100	40 ha	Improved variety, Seed treatment, Line sowing, Weed management and IPM practices
Niger	JNC 6/9	25	10 ha	

Action Plan of Flagship programme 2023 "ARYA"

Sl. No.	Particulars	Kadaknath Poultry Rearing	Goat farming	Entrepreneurship on Lac production and processing	Processing and value addition of minor millets	Total
1	Proposed trainings	02	02	02	02	08
2	No. of youth to be trained	60	60	60	60	240
3	Entrepreneurial units to be Established	5	5	2	2	14

Proposed seed production for the year 2023 Under Seed Hub

Season	Crop	Variety	Class of Seed to be produced	Area (ha.)	Target for seed production (q)
Kharif	Black gram	Pratap urd 1	F/s	30.00	100.00
	Horse gram	Indira Kulthi 1	F/s	20.00	50.00
Rabi	Chickpea	JG 14 and availability of other seed variety	F/s	150.00	750.00
	Lathyrus	Pratik/ Ratan	F/s	10.00	25.00
	Lentil	IPL-316	F/s	10.00	25.00
Summer	Green gram	IPM 2-3	F/s	10.00	50.00
	TOTAL			230.00	1000.00

Proposed programme of NGGB

S.No.	Name of Gothan	Block	Activates planned and to be started
1	Gitpahar	Charama	Vermi compost, Vegetable Production
2	Potgaon	Kanker	Vermi compost, Fodder production
3	Aanwri	Charama	Vermi compost, Layer farming, Vegetable Production
4	Saradhunawagaon	Charama	Vermi compost, Mushroom, Layer farming
5	Bewarti	Kanker	Vermi compost, Community Vegetable Seed Production, Layer Farming, Goatry
6	Nawagaon Bhavgir	Kanker	Vermi compost, Mushroom, Vegetable Production
7	Chilhathi	Bhanupratapur	Vermi compost, Millet processing unit
8	Donde	Koylibeda	Vermi compost, Layer farming
9	Kulgaon	Kanker	Vermi compost, Mushroom, Layer Farming, Fish feed unit
10	Shriguhan	Narharpur	Vermi compost, Vegetable production

Name of New villages identifies for Intensive field level activities of KVKs during 2023

S. No.	Name of Villages	Block	Distance of villages from KVK	Activities planned
1	Kumhankhar	Kanker	20 km	Trainings, Demonstrations, Participatory Seed production, Exposure visit, Field Day, Krishan Sangosthi,
2	Ghotulmunda	Kanker	80 km	
3	Bewarti	Kanker	8 km	
4	Devgaon	Narharpu r	35 km	
5	Saradhu nawagaon	Charama	25 km	

District Agrometeorological Unit

1. Generate crop weather calendar.
2. Mainting of agrometeorological observatory and AWS .
3. Farmer awareness programme to be organized.
4. Increasing number of farmers >6000 in whatsapp group for distribution of Weather forecasting & agroadvisory .

