

ACTION PLAN 2024-25

1. Name of the KVK:BOKARO

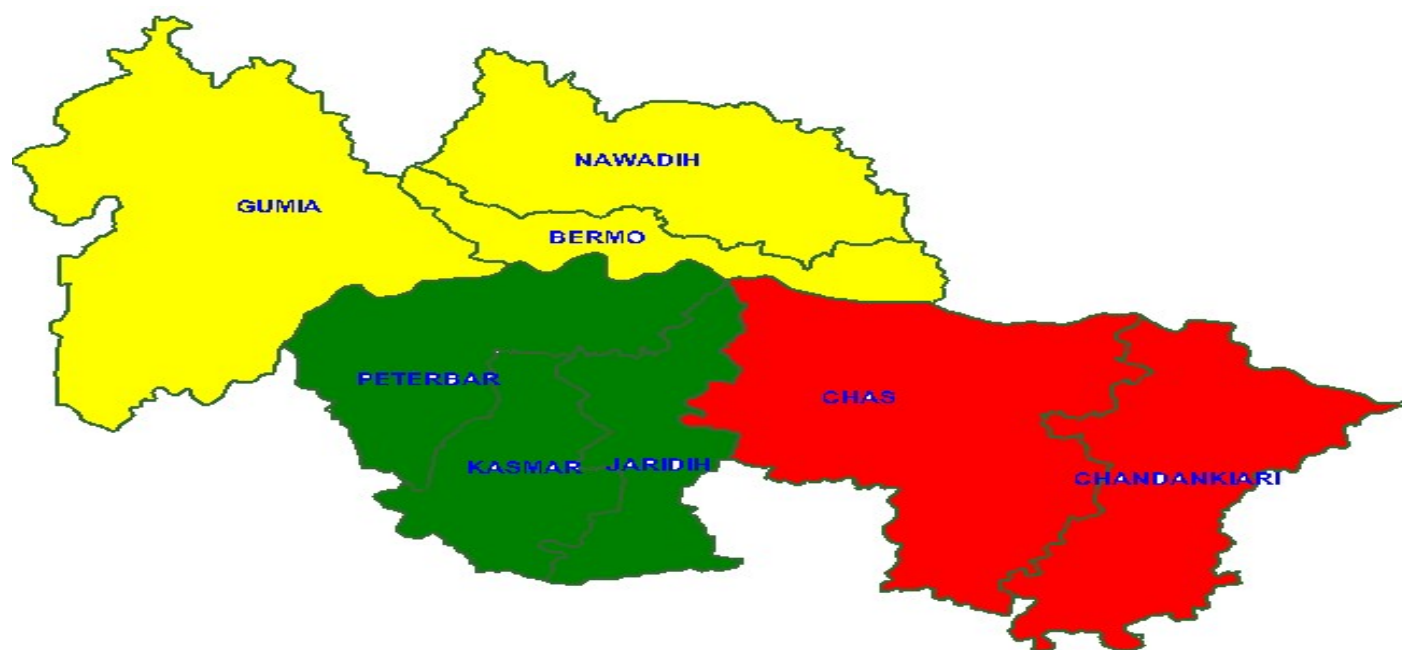
Address	Telephone		E mail
KrishiVigyan Kendra, Bokaro P.O.-Petarwar Pin- 829121	06549-265048 (O) 09431176741 (M)		kvk_bokaro@yahoo.co.in

2. Name of host organization:

Address	Telephone		E mail
	Office	FAX	
Birsa Agricultural University, Jharkhand, Kanke, Ranchi Pin-834006	(VC) 0651- 2450500(O)	0651- 2450850	vc@bauranchi.org vc_bau@rediffmail.com
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I. Introduction

KrishiVigyan Kendra Bokaro established in 2004 is located on National Highway No.23 about 35 KM of district headquarter of Bokaro (Jharkhand). There are 2 subdivision (Bermo & Chas) 9 blocks, 200 panchayats and 733 villages in Bokaro district, Total population of the district is 17,75,961. Total geographical area of the district is 2,88,970 ha out of which only 25840 ha is under crop having cropping intensity of 116 %.



II. District Profile

Land holding pattern.

1. Number of Holding (000)	:	116.41
2. Average Size of Holding (Hectare/holding)	:	1.18
3. Marginal farmer's holding (No. in ,000)	:	81.49
4.Small & Medium farmer (No. in 000)	:	30.64
5. Large farmer, holding (No. in 000)	:	4.28

District profile

1.	Location		
	Latitude	:	23 ⁰ 24'34" N to 23 ⁰ 59'05"N
	Longitude	:	85 ⁰ 35'00" E to 86 ⁰ 38'47"E
2.	Average Annual Rainfall	:	1252.62 mm
3.	Administrative Units		
	3.1 No. of Subdivision	:	2 (Bermo, Chas)
	3.2 No. of Blocks	:	9
	3.3 No. of Panchyets	:	200
	3.4 No. of Villages	:	733
4.	Land use (000ha)		
	4.1 Total geographical	:	288.97
	4.2 Total Forest area	:	72.23
	4.3 land Barren and uncultivated	:	25.01
	4.4 Cultivated waste land	:	119.29
	4.5 Net Sown area	:	15.81
	4.6 Total cropped area	:	25.84
	4.7 Irrigated area	:	0.90
	4.8 Cropping Intensity	:	116%
5.	Population 2001		
	5.1 Total population (in lakh)	:	17.75
	5.2 Total Rural population (in lakh)	:	9.71
	5.3 Population Density (Number/ Sq Km)	:	621
	5.4 Literacy (%)	:	62.90
	5.5 Male Literacy (%)	:	76.99
	5.6 Female(%)	:	47.17
	5.7 Total ST Population (lakh)	:	2.19
	5.8 Total Sc Population (lakh)	:	2.36
6.	Working population		
	6.1 Total working population (in lakh)	:	5.10
	6.2 Total cultivators (lakh)	:	1.19
	6.3 Total agricultural laborer (lakh)	:	1.09
	6.4 Total labours engaged in cottage industry(lakh)	:	0.20
	6.5 Other workers(lakh)	:	2.62

7.	Operational holding			
	7.1 Number of Holding (000)	:		116.41
	7.2 Average Size of Holding (Hectare/holding)	:		1.18
	7.3 Marginal farmer's holding (No. in ,000)	:		81.49
	7.4 Small & Medium farmer (No. in 000)	:		30.64
	7.5 Large farmer, holding (No. in 000)	:		4.28
8.	Livestock (in, 000)			
	8.1 Total Population	:		673.47
	8.2 Total Cattle	:		327.23
	8.3 Total Buffalow	:		61.30
	8.4 Total sheep	:		34.49
	8.5 Total Goat	:		207.16
	8.6 Total pig	:		43.21
	8.7 Total Poultry	:		600.14
9.	Fishery			
	9.1 Government Ponds			
		Number		1710
		Total Area		1621 ha
		Average Size		0.95 ha
	9.2 Private Ponds			
		Number		745
		Total Area		402 ha
		Average Size		0.54 ha
	9.3 Total			
		Number		2455
		Total Area		2023 ha
	9.4 Annual Fish Production			2000 Tons
	9.5 Average Productivity	:		0.81 Tons/ha
10	Information on credit			
	10.1 No. of Commercial Banks	:		77
	10.2 No. of RRB	:		08
	10.3 No. of Co-operative Banks	:		05
	10.4 No. of Land development Banks	:		92
11.	Total No. of Hat /Bazar	:		97
12.	Crop Production			
	Name of crop	Area (ha)	Production (ton)	Productivity (kg/ha)
	Total Cereals	19121	22084	1155
	Total Pulses	1129	823	729
	Total Oilseeds	115	77	670
	Total Vegetable	5551	83972	1513
	Total Fruits	952	11240	1181

13.	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Crop	Area (ha)	Production (MT)	Productivity (q/ha)
		Maize (Hybrid)	3075	12300	40.00
		Maize	26113	40088	15.50
		Wheat	1300	1272	10.00
		Maize	4746	7595	16.00
		Arhar	2130	1374	6.50
		Gram	1309	1149	8.25
		Mustard	1615	388	6.00
		Pea	325	387	12.00
		Mustard	1540	847	5.5
		Brinjal	497	12860	2558.75
		Tomato	1011	28380	280.71
		Cauliflower	1303	35660	273.7
		Bottle gourd	480	8000	166.6

III. Priority Thrust Areas of Bokaro District

S. No	Thrust area
1.	Popularization of Soil and water conservation techniques
2.	Intensification in crop production system
3.	Development of seed production system.
4.	Value addition of locally available fruits & vegetables.
5.	Improvement of indigenous poor breeds of livestock.
6.	Soil Fertility Management
7.	Insect pest and disease management of major crops
8.	Entrepreneurship development through mushroom, vermi compost production.
9.	Farm Mechanization

3. Training programme to be organized (April 2023 to March2024)

ACTION PLAN ABSTRACT OF TRAINING PROGRAMME

Clientele	On Campus		Off Campus		Total	
	No. of course	Participants	No. of course	Participants	No. of course	Participants
Farmers and Farm Women	40	1200	40	1440	80	2640
Rural Youth	20	300	-	-	20	300
Extension Functionaries	6	180	4	200	10	380
Total	66	1680	44	1640	110	3320

Farmers and Farm Women:

Thematic Area*	Title	No.	Duration	Venue On/Off	Tentative Date	No. of Participants									
						OTH		SC		ST		Total			
						M	F	M	F	M	F	M	F	T	
Crop production															-
Production and Management Technology	Production Techniques of Babycorn/ Maize	1	2	On	May	10	20	-	-	-	-	10	20	30	
	Cultivation practice of kharif oilseed- and pulses	2	2	On	June	20	10	-	-	10	20	30	30	60	
Soil and water conservation	Control of Soil erosion & moisture Conservation	2	2	On	Aug.	20	10	-	-	20	10	40	20	60	

technique	Technique													
Total		5	6			50	40			30	30	80	70	150
Soil health & fertility management														
Integrated nutrient management	Integrated nutrient management module of vegetable crops	1	2	On	Oct	30	-	-	-	-	-	30	-	30
Soil fertility management	Balance use of nutrients in rice & Maize	1	2	On	June-July	-	30	-	-	-	-	-	30	30
Total		2	4			30	30					30	30	60
Horticulture														
Floriculture	Nursery raising for flower crops	1	2	On	Oct.	-	15	-	-	-	15	-	30	30
Fruit crop	Cultivation of high value fruit crops Capsicum & Watermelon	1	2	On	Nov	-	-	-	-	-	30	-	30	30
Exotic vegetables	Cultivation practice of Exotic vegetable (broccoli, red cabbage, salad crops etc)	1	2	On	Sept.	20	10	-	-	-	-	20	10	30
Tuber crops	Production technology of tuber and bulb crops	1	2	On	May	-	-	-	-	20	10	20	10	30
Kitchen gardening	Kitchen gardening	1	2	On	Oct.	15	15	-	-	15	15	30	30	60
Total		05	10			35	40			35	70	70	110	180
Plant Protection														
Integrated Pest Management	Technique for healthy and	2	2	On	June & Nov..	-	30	-	-	-	30	-	60	60

	disease free seedling of vegetables													
	Integrated pest & disease management in kharif&rabi cereals crops	2	2	On	May & Nov	15	15	-	-	15	15	30	30	60
Mushroom	Mushroom cultivation	1	2	On	Sept.	10	-	-	-	10	10	20	10	30
Lac cultivation	Production technology of kusmi lac	1	2	On	June	-	30	-	-	-	-	-	30	30
Integrated disease management	Control of bacterial and fungal disease in Tomato & Brinjal	2	2	On	June & Dec.	25	20	-	-	25	20	50	40	90
Total		08	10			50	95			50	75	100	170	270
Agril. Engg.														
Farm Mechanization	Use of farm machinery implements in agriculture.	2	2	On	July & Aug.	15	15	-	-	15	15	30	30	60
Installation & maintenance of micro irrigation system	Micro irrigation and mulching in vegetable cultivation	2	2	On	Sept. & Oct	30	30	-	-	-	-	30	30	60
Soil &* Moisture Conservation	Use of Mulching in vegetable Production	2	2	On	May & June	30	-	-	-	30	-	60	-	60
	Soil moisture conservation technique	2	2	On	March & April	30	-	-	-	30	-	60	-	60
PHT	Post-harvest processing of seeds and grains	1	2	On	Jan	30	-	-	-	-	-	30	-	30
	Storage technique and storage structure for seeds and grains	1	2	On	Feb.	15	-	-	-	15	-	30	-	30
Total		10	12			150	45			90	15	240	60	300

Home Science/ women empowerment														
Capacity Building	Mahua Based Products development for rural women	1	1	on	April-May	-	25	-	-	-	-	-	25	25
	Different kind of badi and papad making from cereals, pulses and vegetables	1	2	On	Nov. & Dec.	-	25	-	-	-	-	-	25	25
	Benefits of developing nutria-garden for Rural family	1	1	on	Feb-March	-	25	-	-	-	-	-	25	25
	Income generating areas for farm women post covid period	2	1	on	April-May	-	20		15	-	-	-	35	35
Value addition	Technique of Amda pickle making for rural	1	1	on	Feb-March	-	25	-	-	-	-	-	25	25
PHT	Preservation of seasonal fruits for income generation	1	2	on	May-June	-	25	-	-	-	-	-	25	25
Total		5	7				145	-	15	-	-	-	160	125
Live stock														
Disease and feed management	Disease and feed management in poultry &Goatry	1	2	On	June	-	-	30	-	-	-	30	-	30
Total		1	2					30	-	-	-	30	-	30
Fisheries														
Fish farming	Composite fish farming	2	2	On	July	30	-	-	-	-	-	30	-	30
Total		2	2			30	-	-	-	-	-	30	-	30

Grand total		40	56			345	340	30		205	280	580	620	1200
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B. Farmers and farmwomen – Off Campus

Thematic Area*	Title	No. of course	Duration	Venue On/Off	Tentative Date	No. of Participants								
						OTH		SC		ST		Total		
						M	F	M	F	M	F	M	F	T
Crop production														
Weed management	Weed management in kharif crops	1	1	Off	July	30	-	-	-	-	-	30	-	30
Integrated crop management	Green manuring in rice cultivation	2	1	Off	Nov.	30	-	-	-	30	-	60	-	60
	ICM of Mustard & Linseed	2	1	Off	Oct.	-	30	-	30	-	-	-	60	60
Production and Management Technology	Cultivation practice of kharif oilseed-Production Technology of forage crops berseem& Maize	2	1	Off	July& Oct	30	-	-	-	-	30	30	30	60
	Production Technique of millets	1	1		June	15	5	5	5	-	-	20	10	
Total		8	5			105	35	5	5	30	30	140	100	210
Soil health & fertility management														
Soil & water testing	Method of soil sampling	1	1	Off	Sept.	15	-	-	-	15	-	30	-	30
Integrated nutrient management	Sulphur and phosphate management in oilseed crops	1	1	Off	July	-	30	-	-	-	-	-	30	30
Total		2	2			15	30	-	-	15	-	30	30	60
Horticulture														
Integrated crop management	Cultivation practice of	2	1	Off	April & May	15	15	-	-	15	15	30	30	60

	bulbs and cole crops													
	Cultivation of Cucurbitaceous vegetables	1	1	Off	Nov.	-	15	-	-	-	15	-	30	30
Nursery management	Nursery management & seedling production of vegetable & fruit	2	1	Off	July	15	15	-	-	15	15	30	30	60
Hi- tech horticulture	Organic vegetable production	2	1	Off	July & Oct.	15	15	-	-	15	15	30	30	60
Fruit	Papaya cultivation	2	1	Off	July	30	-	-	-	30	-	60	-	60
Total		9	5			75	60			75	60	150	120	270
Plant Protection														
Integrated pest management	Integrated pest management of pulses and oilseeds.	2	1	Off	April & Nov.	-	30	-	-	-	30	-	60	60
	Integrated pest management in Tomato & Brinjal	3	1	Off	June , July & Aug.	30	60	-	-	-	-	30	60	90
Seed treatment	Seed treatment of field crops	2	1	Off	Nov. & Dec.	30	15	-	-	20	15	50	30	80
Bio-control	Use of bio-pesticide in rabi vegetable	2	1	Off	Nov. Dec.	-	30	-	-	-	30	-	60	60
Disease Management	Control method of blights disease in potato	1	1	Off	Dec	-	30	-	-	-	-	-	30	30
Total		10	5			60	165			20	75	80	240	320
Agril. Engg.														
Farm mechanization	Zero Till wheat cultivation technique	2	1	Off	Oct	15	15	-	-	20	15	35	30	65
Soil and Water Conservation	Low cost water harvesting	2	1	Off	May & June	25	15	-	-	20	15	45	30	75

	technique													
Installation and maintenance of micro irrigation systems	Mulching and drip irrigation in vegetable production	2	1	Off	Nov. & Dec.	25	15	-	-	20	15	45	30	75
PHT	Post-harvest management of vegetable for value addition	2	1	Off	Sept. & Oct.	20	15	-	-	15	15	35	30	65
	Storage technique and storage structure for seeds and grains	1	1	Off	March & April	15	-	-	-	15	-	30	-	30
Total		9	6			100	60			90	60	180	120	300
Home Science/ women empowerment														
Food security														
Design & development of low cost diet	Importance of balance diet for immunity development	1	1	Off	June & Dec.	-	20	-	-	-	15	-	35	35
Minimization of nutrient loss in processing	Nutrient saving cooking Practice	1	1	Off	July & Aug.	-	20	-	-	-	20	-	40	40
Women & child care	Nutri-Garden lay out & designing for farm women	1	2	off	Feb-March	-	20	-	15	-	-	-	35	35
	Common medicinal & herbal plant to boost immunity	1	1	Off	July-Oct.	-	20	-	-	-	15	-	35	35
Drudgery reduction	Technique for Drudgery reduction	1	2	off	Sept.	-	-	-	25	-	25	-	50	50
Total		5	7	-	-	-	80	-	40	-	75	-	195	195
Grand total		44	27			330	470		35	225	345	560	850	1440

(C) Rural youths/Skill development

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						OTH		SC		ST		Total		
						M	F	M	F	M	F	M	F	T
Seed production	Quality Seed production technology	1	5	On	June	15	-	-	-	15	-	30	-	30
Doubling farming income	Doubling farming income through Integrated farming system	1	5	On	June	25	-	-	-	25	-	50	-	50
Commercial fruit production	Establishment of nursery and mali training	2	5	On	July	30	-	-	-	30	-	60	-	60
Mushroom Production	Production technology of Mushroom	2	5	On	Nov. & Dec.	-	20	-	-	-	20	-	40	40
Drafting and stitching of female garment	Drafting and stitching of female garment	1	5	On	June, July & Jan.21	-	15	-	-	-	15	-	30	30
Value addition of locally available seasonal fruit & vegetables	Small scale processing and preservation of locally available seasonal fruits and vegetable	1	5	On	June – sept.	-	15	-	-	--	15	-	30	30
Bee keeping	Cultivation of bee keeping	1	5	On	May	15	-	-	-	15	-	30	-	30
Repair and maintenance of farm machinery and implements	Repair and maintenance of farm implement	1	15	On	June	20	-	5	-	5	-	30	-	30
Total		10	50			105	50	5		90	50	200	100	300

(D) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						OTH		SC		ST		Total		
						M	F	M	F	M	F	M	F	T
Installation and maintenance of micro irrigation systems	Micro irrigation system for vegetable production	1	1	On	May	15	-	-	-	15	-	30	-	30
Farm Mechanization	Role of farm mechanization in increasing productivity	1	1	On	Aug. Oct.	20	-	-	-	20	-	40	-	40

	and profitability													
Soil and Water Conservation	Water harvesting and soil moisture conservation technique	1	1	On	July	20	-	-	-	20	-	40	-	40
Women & child care	Awareness programme on common medicinal herbs like giloy ,tulsi and neem in daily routine for immunity development.	1	1	On	April & Aug.	-	15	-	-	-	15	-	35	35
	Awareness programme on need of nutrition / community garden in anganbari in school related to MDM Programme.	1	1	On	July	-	15	-	-	-	15	-	35	35
Production of organic inputs	Promotion of organic farming in vegetable production	2	1	On	Aug,	20	-	-	-	20	-	40	-	40
Production of bio control agents and bio pesticides	Use of Bio-pesticides in vegetable production	1	1	On	Sept.	20	-	-	-	10	-	30	-	30
Seed production	Doubling farmer income through Seed production of pulses	2	1	On	July & Oct.	40	-	-	-	20	-	60	-	60
Total		10	8			135	30			105	30	240	60	300

4. Seed production at KVK farm (2024-25)

Crop	Variety	Type of Seed	Area (ha.)
Rice	IR-64 DRT-1	F/S	2.0
	R. Masuri	F/S	2.0
	Total		4.0
Pulse	Lentil	F/S	1.0
Oil seed			
Other	Elephant Yam		0.1
Rabi 2024-25	Mustard	F/S	2.0
	Linseed	F/S	1.0
	Total		3.1
	Grand Total		8.1

5. Plant Seeding and grafted plants Production at KVK farm (2024-25)

Crop	Variety	No.
Mango	Amrapali	2000.
	Mallika	2000
	Langra	1000
	Dusheri	1000
Vegetables	Tomato, Brinjal Chillies	50000
	Grand Total	56000

6. Seed production under Seed Hub Programme (2024-25)

Crop	Variety	Type of Seed	Area (ha.)
Pulse	Arhar (IPA203)	F/S	3.0
	Lentil (PusaAgeti L-4717)	F/S	8.0
	Total		11.0

7. Natural Farming demonstration to be conducted (2024-25)

Season	Crop/Enterprise	Variety	No. of area (ha)	No. of Demo.
Kharif	Paddy	IR-64 DRT1	6	15
	Ragi	A- 404	3	40
	Vegetable	Hybrid	3	40
Rabi	Vegetable	Hybrid	6	80
	Total		18.Ha	175

8. Frontline demonstration to be conducted (2024-25)

Season	Crop/Enterprise	Variety	No. of area (ha)	No. of Demo.
Kharif	Rice	IR-64 DRT1	20	50
	Ragi	A- 404	10	25
	Watermelon	Icebox	02	10
	Cucurbits	Malo, Pali	02	10
Rabi	Capsicum	Indira, Super wonder	02	10
	Mushroom	Oyster	10 units	05
	Milk Processing		10 Unit	10
	Total		36.0 ha 20 Units	120

9. Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participant
Training	Production technology of high value crop	01	PF	01	On	30
Training	Orchard management	03	PF	01	On	90

10. Action Plan: Cluster Frontline Demonstration on Oilseed and Pulses 2024-25

Season	Crop	Variety	No. of area (ha)	No. of Demo.
Kharif	Pulse			
	Black gram	WBU-109	20	50
	Green Gram	HUM-16	20	50
	Pigeon pea	Rajiv Lochan	20	50
	Horse gram	Indra Kulthi-1	20	50
Rabi	Lentil	IPL221	20	50
		Total	100	250
Kharif	Oilseed			
	Sesame	Shekhar/Improved	20	50
	Niger	Puja-1	20	50
Rabi	Oilseed			
	Rapeseed & Mustard	P-30	60	150
	Linseed	Priyam	20	50
		Total	120	300
		Grand Total	220	550

11. Extension Activities

Sl. No	Activities	No. of activities proposed	Farmers				Extension Officials			Total		
			M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day	10										600
2.	KisanMela	4										4000
3.	KisanGhoshi	6										500
4.	Exhibition	5										500
5.	Film Show	30										1500
6.	Method Demonstrations	5										100
7.	Farmers Seminar	0										0
8.	Workshop	0										0
9.	Group meetings	2										200
10.	Lectures delivered as resource persons	50										
11.	Newspaper coverage	10										
12.	Radio talks	5										
13.	TV talks	12										
14.	Popular articles	5										
15.	Extension Literature	15										
16.	Advisory Services	100										60
17.	Scientific visit to farmers field	150										1000
18.	Farmers visit to KVK	1500										1500
19.	Diagnostic visits	30										250
20.	Exposure visits	4										100
21.	Ex-trainees Sammelan	1										100
22.	Soil health Camp	2										200
23.	Animal Health Camp											
24.	Agri mobile clinic	0										0
25.	Soil test campaigns (Analysis)	1										100
26.	Farm Science Club Conveners meet											
27.	Self Help Group Conveners meetings	2										100

28.	MahilaMandals Conveners meetings	0										0
29.	Celebration of important days (specify)	2										200
30.	Help line service	2000										2000
31.	Any Other (Technology Week)	2										500
	Total	3953										13510

On-Farm Trials - 1

- i. Season:** Kharif
- ii. Title of OFT: -** Assessment of Preparation methods of Jack Fruit papad
- iii. Thematic Area:-** Value Addition
- iv. Problem diagnosed:** Jack fruit is heavily produced in local area of Bokaro district but not properly utilized due to lack of processing knowledge.
- v. Important Cause:** Heavy wastage of jack fruit.
- vi. Production System:** Rainfed Upland
- vii. Micro farming system: -**
- viii. Technology for Testing:** Preparation methods of different jack fruit based papad.
- ix. Existing Practice:** Local people consume jack fruit as pickle upon maturity.
- x. Hypothesis:** Papad developed from mature unripe jack fruit may increase both income and its utilization.
- xi. Objective:** To increase utilization by developing papad from matured unripe jack fruit and income.
- xii. Treatments:**
- F.P. :** Local people consume mature unripe jack fruit just s pickle.
- T.O.1:** Preparation of plain papad from mature unripe Jack Fruit.
Formulation —Mature unripped Jack fruit bulb 500gmsalt -2 teaspoon –, Cumin seed – 2 tea spoon
- T.O. 2:** Preparation of masala papad from mature unripe Jack Fruit
Formulation – Ingredients Mature unripped Jack fruit bulb 500gm, Green chillies-6 no., curry leaves -2 springs, Garlic 6 cloves, Ginger 1inch, salt -according to taste –, Cumin seed – 2 tea spoon
- Xiii. Critical Inputs:** Mature unripped Jack fruit, Green chillies-, curry leaves Garlic, Gingersalt - Cumin seed
- xiv. Unit Size:** Papad per kg
- xv. No. of Replications: 10**
- xvi. Unit Cost: Rs. 300**
- xvii. Total Cost: Rs. 15000**
- xviii. Monitoring Indicator:**
1. Nutritive value
 2. Self life (storage duration) in days
 3. Sensory evaluation
 4. Economics
 5. B:C ratio
- xix. Source of Technology:-**A guide on Jack fruits, Technical Bulletin No. 41 ICAR Goa
- xxx. Coordinating Scientist :Dr. Nandana Kumari**

On-Farm Trials - 2

Season: Kharif/Rabi 2023

- i. **Title of the OFT:** Assessment of preparation methods of Bhupaladoo (A Traditional Tribal recipe made up of Mahua (Sun dried) and Finger millet)
 - ii. **Thematic Area:** Preservation
 - iii. **Problem diagnosed:** Heavy wastage of Mahua.
 - iv. **Important Cause:** Lack of knowledge regarding processing and preservation of mahua and finger millets
 - v. **Production system:** Road side , Uncultivated and Marginal land plants.
 - vi. **Micro farming system:** Rain-fed medium.
 - vii. **Technology for Testing:** Preservation of ladoo from mahua and finger millets.
 - viii. **Existing Practice:** Local people consume bhupaladdoo in winter season
 - ix. **Hypothesis:** Use of Bhupaladdoo developed from scientific method may increase consumption and income
 - x. **Objective(s):** To increase utilization and income.
 - xi. **Treatments:**
Farmers Practice: Local people consume bhupaladdoo in winter season
- TO1:** Preparation and preservation of finger millets based bhupaladdoo scientific method.
TO2: Preparation and preservation of pearl millets based bhupaladdoo scientific method.
- xii. **Critical Inputs—**Mahua, finger millets , Pearl Millets, Sugar and ghee
 - xiii. **Monitoring Indicator:**
 1. Nutritive value
 2. Self life (storage duration) in days
 3. Sensory evaluation
 4. Economics
 5. B:C ratio
 - xiv.
 - xv. **Source of Technology:** Technical Bulletin on Millets, GBPAUT Pant Nagar
 - xvi. **Coordinating Scientist :Dr. Nandana Kumari**

On farm Trial-3

- i. Season:** Kharif
- ii. Title of OFT:- :** **Assessment of biomass mulching in mango.**
- iii. Thematic Area:-** Management of orchard
- iv. Problem diagnosed:-**Low soil fertility decrease the quality and yield of mango.
- v. Important Cause:** Low fertility, and poor vegetative growth.
- vi. Production System:** **Fruit based production system, INM**
- vii. Micro farming system:** **Rice-Fallow**
- viii. Existing Practice:** No mulching
- ix. Hypothesis:** Biomass mulching or other mulching may increase the quality and yield of fruits

xi. Objective: To improve soil and moisture content

xii. Treatments:

Farmers Practice .) No Mulching

T.O.1– Taphrosia 1 Kg dry biomass/m²

T.O.2– Grass/ Paddy straw/ any other local available mulching 15cm thick (greece band 30 cm from ground level)

Mango- Variety : **Amrapali**

xiii. Critical Inputs: Taphrosia, Other mulch material

xiv. Unit Size: **7 per unit**

xv. No. of Replications: **08**

xvi. Unit Cost: **Rs. 1500**

xvii. Total Cost: **Rs.10500**

xviii. Monitoring Indicator:

1. No. of fruits set per panicle and penicle length
2. Average fruit weight (g)
3. Fruit yield (t/ha)
4. TSS (° brix)
5. B:C ratio

xix. Source of Technology:- ICAR, RCER, Ranchi.

xxx.Coordinating Scientist :Dr. Anil Kumar

On Farm Trials-4

- i. Season:** Kharif
- ii. Title of OFT:- :** Assessment of microbial consortia against wilting in Solanaceous crop(Brinjal)
- iii. Thematic Area:-** Disease management
- iv. Problem diagnosed:-** Mortality in brinjal due to wilting
- v. Important Cause:** High mortality and severe yield loss
- vi. Production System:** **vegetable production system**
- vii. Micro farming system:** Rice-Fallow
- viii. Existing Practice:** No use of microbial consortia
- ix. Hypothesis:** Use of microbial consortia may reduce mortality and increase yield
- xi. Objective:** To reduce the wilting problem and increase the yield

xii. Treatments:

FP : Farmers Practice: chemical pesticides

TO.1: IIHR consortia (Arka microbial consortia)

TO.2: NRC litchi *triconderma*

- Variety :** JK8081
- xiii. Critical Inputs:** Seed,microbial consortia
- xiv. Unit Size:** 100SM²
- xv. No. of Replications:** 08
- xvi. Unit Cost:** Rs. 2500
- xvii. Total Cost:** Rs.12500

xviii. Monitoring Indicator:

1. Mortality percentage
2. No. of fruits/plant
3. Average fruit weight (g)
4. Fruit yield (t/ha)
5. B:C ratio

xix. Source of Technology:- ICAR, IIHR Bangluru

xxx.Coordinating Scientist :Dr. Anil Kumar

On Farm Trials-5

i.	Season:	Kharif/Rabi
ii.	Title of the OFT:	Assessment of Natural farming ingredient for rice var. IR64 DRT1
iii.	Thematic Area:	Capacity Building
i.	Problem diagnosed:	Hazards of chemical fertilizers and pesticide
ii.	Important Cause:	Lack of natural farming knowledge and direct impact
iii.	Production system:	Rice - fellow -fellow
iv.	Micro farming system:	Rainfed/Irrigated.
v.	Technology for Testing:	
	Existing Practice:	There is use of chemical fertilizer and chemicals
vi.	Hypothesis:	Use of natural farming may increase yield of farmers
vii.	Objective(s):	To develop habit of using natural farming ingredients among farmers
viii.	Treatments:	
	Farmers Practice (FP)	: Use of chemical fertilizers and pesticides
	Technology option-1	: Use of Beejamrit, Jeevamrit, Ghanjeevamrit Brahmastra, Nimastra, Amritpani, Dashparniyark
xii	Critical Inputs	: Seed, drum, Printed literature
	Unit Size:	: 5 farmers
xiii	No of Replications:	: 5
xiv	Unit Cost:	Rs. 2,000/-
xv.	Total Cost:	Rs. 10,000/-
xvi.	Monitoring Indicator	i- Organic carbon content of soil. ii- Fertilizer saving iii- Pesticide saving iv- Yield, Rate of produce vii- Scientist feedback
xvii.	Source of Technology	: Acharya Devvrit Ji
xviii.	Co-ordinating Scientist	: Dr. Adarsh Srivastava And Dr Anil Kumar

On Farm Trials-6

- i. **Season:** **Kharif/Rabi 2024-**
- ii. **Title of the OFT:** Assessment of Effectiveness Extension Methods for dissemination of commercial Vegetable Production Technologies.
- iii. **Thematic Area:** Vegetable Production
- iv. **Problem diagnosed:** Lack of technical knowledge vegetable production
- v. **Important Cause:** :Lack of knowledge scientific cultivation of vegetables
- vi. **Production system:** Rice-fellow- fellow
- vii. **Micro farming system:** Rain-fed medium.
- viii. **Technology for Testing:** Effectiveness of teaching methods
Existing Practice: Farmers use traditional method of vegetable production
- ix. **Hypothesis:** : Effective use of extension methods may increase vegetable production
- x. **Objective(s):** : To increase commercial vegetable production
- xi. **Treatments:**
Farmers Practice: Without Extension Education Methods
TO1: individual contact method (farm and home visit)
TO2: Group contact Method (Demonstration, Lecture, Participatory Discussion/Training)
TO3: Mass Contact (Leaflet, Mobile Advisory, A/V film)
- Xii Critical Inputs:** : Training,
- xii. **Unit Size:** : **120(60 farmers + 60 extension personnel)**
- xiii. **No of Replications:** :10
- xiv. **Unit Cost:** Rs. 1,000/-
- xv. **Total Cost:** Rs. 10,000/-
- xvi. Monitoring Indicator**
1. Pattern of use of Extension Methods among farmers.
 2. Effectiveness Intensity Index of methods perceived by Farmers
 3. Effectiveness Intensity Index of methods perceived by Extension Personnel.
- xvi. **Source of Technology :** BAU, Ranchi
- xvii. **Coordinating Scientist :Dr. Adarsh Kumar Srivastava**

On Farm Trials-7

- i. **Season:** Kharif/Rabi
- ii. **Title of the OFT :** Assessment of effectiveness of KISANSARTHI for management of Stem borer in maize
- iii. **Thematic Area :** ICT
- iv. **Problem diagnosed:** Non availability of technical knowledge in critical time
- v. **Important Cause:** lack of timely information
- vi. **Production system:** Rice - fellow -fellow
- vii. **Micro farming system:** Rain-fed medium.
- viii. **Hypothesis:** Use of Kisansarthi may increase knowledge and interest of farmers
- ix. **Objective(s):** To increase knowledge and interest among farmers
- x. **Technology for Testing:**
- T₁. Farmers practice:-** Nouse of social media for upgradation of knowledge about improved cultivation technique
- T₂. KISANSARTHI,** a quick, cheaper and faster medium for information delivery to the farming community.
- xi. **Critical Inputs:-** Technical message twice in a week.
- xii. **Unit Size:** : 50 farmers
- xiii. **No. of replication** :- 50 Farmers
- xiv. **Monitoring** **Indicator** :
- Knowledge level, Understanding, Need & Time based, Clarity, Applicability, Extent of utilization, Extent of dissemination
- xv. **Source of Technology** : JNKV, Jawalpur
- xvi. **Co-ordinating Scientist** : Dr. Adarsh Kumar Srivastava & Dr Anil Kumar

10. List of Projects to be implemented by funding from other sources (other than KVK fund)

Sl. No.	Name of the project	Fund expected (Rs.)
1.		

11. No. of success stories proposed to be developed with their tentative titles
05 Nos. of success stories to be developed

12. Scientific Advisory Committee

Date of SAC meeting held during 2022-23	Proposed date during 2023-24
	17.07.2023

13. Soil and water testing

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	1000	50	50	300	100	300	200	650	350	1000	10	5000
Water Samples												
Total	1000	50	50	300	100	300	200	650	350	1000	10	5000