

ANNUAL PROGRESS REPORT

(01.04.2023 to 31.03.2024)



KRISHI VIGYAN KENDRA
BOKARO, PETARWAR
DIST. - BOKARO
BIRSA AGRICULTURAL UNIVERSITY
RANCHI, JHARKHAND.

PROFORMA FOR ANNUAL REPORT 2023 (01st January- 31st December 2023)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Name and address of KVK	Telephone		E-Mail
	Office	FAX	
KrishiVigyan Kendra, Bokaro P.O.-Petarwar Pin- 829121	06549-265048 (O) 09431176741 (M)	FAX	KrishiVigyan Kendra, Bokaro P.O.-Petarwar Pin- 829121

1.2. Name and address of host organization with phone, fax and e-mail

Name and address of Host Organization	Telephone		E mail
	Office	FAX	
Birsa Agricultural University, Jharkhand, Kanke, Ranchi Pin-834006	(VC) 0651- 2450500(O)	0651-2450850	Birsa Agricultural University, Jharkhand, Kanke, Ranchi Pin-834006

1.3. Name of Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Anil Kumar	9431176741	9431176741	anilkvk4@gmail.com

1.4. Year of sanction of KVK with council order No. and date:

(Reference of Sanction Order)

2004. Vide letter No. of ICAR- F.No. 6-5/2000-AE-1 dated 24-6-2004

1.5. Year of start of KVK: --2004

1.5. Staff Position (as on 31st December 2023))

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Sr. Scientist & Head	Dr. Anil Kumar	I/C Sr. Scientist & Head Scientist	Horticulture	79800-211500 Basic: 117100	19-07-04	Permanent	Others
2	Scientist	Dr. Adarsh Kumar Srivastava	Scientist	Agril. Extension	Basic:117100 79800-211500	01.03.23	Permanent	Others
3	Scientist	Sri Uday Kumar	Scientist	Agronomy	Basic: 110400 79800-211500	19-07-04	Permanent	Others
4	Scientist	Sri Vinay Kumar	Scientist	Agril. Engg.	Basic: 110400 79800-211500	20-07-04	Permanent	Others
5	Scientist	Mrs Neena Bharti	Scientist	Plant Protection	Basic: 110400 79800-211500	20-07-04	Permanent	ST
6	Scientist	Dr. Nandana Kumari	Scientist	Home Science	Basic: 120600 79800-211500	19-07-04	Permanent	Others
7	Programme Assistant	Dr. Rupa Rani	Programme Assistant	Horticulture	35400-112400 Basic: 64100	16-03-05	Permanent	Others
8	Computer Programmer	Naman Kandulna	Computer Assistant	-	35400-112400 Basic: 62200	20-07-04	Permanent	ST
9	Farm Manager	Rashmi Kandulna	Farm Manager	-	35400-112400 Basic:66000	20.07.04-	Permanent	ST
10	A.V Aids Astt.	Sunil Kr. Pandey	Audio Visual Aid	-	35400-112400 Basic: 62200	20.07.04	Permanent	Others
11	Accountant / Superintendent	Sri Abhay Kumar Singh	O.S.cum Accountant	-	11000.00		Contractual Staff	Others
12	Stenographer	Sri Ratnesh Kumar Mishra	Stenographer	-	9000.00		Contractual Staff	Others
13.	Driver	Sri Ranchandra Lohar	Driver	-	9000.00		Contractual Staff	ST
14.	Driver	Sri Panchanand Mahto		-	9000.00		Contractual Staff	Others
15.	Supporting staff	Sri Ruplal Marandi		-	7000.00		Contractual Staff	ST
16.	Supporting staff	Sri Durga Prasad Mahto		-	7000.00		Contractual Staff	Others

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)	Name of infrastructure
1	Under Buildings Under Demonstration Units	2.0	Administrative Building, Farmers Hostel, Staff Quarters
2.	Under Crops	6	Cereal, Pulse, Oilseed, Vegetable etc
3.	Orchard/Agro-forestry	1	Mango, Guava, Awanla, Bel etc.
4.	Technology park	0.4	
5.	Pond	0.2	Fish and irrigation
6.	Unutilized land due to undulating	0.4	
	Total	10	

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					Completed	500		I.C.A.R.
2.	Farmers Hostel					Completed	300		I.C.A.R.
3.	Staff Quarters (6)			Completed up to lintel level		Incomplete	400		I.C.A.R.
4.	Piggery unit	Not yet started							
5	Fencing					Completed			District Administration
6	Rain Water harvesting structure					Incomplete (Micro irrigation system is not installed)	120x120x10 ft pond		I.C.A.R.
7	Threshing floor					Completed			I.C.A.R.
8	Farm godown					Completed			I.C.A.R.
9.	Farm godown					Completed			District Administration
10.	Preservation unit					Completed			I.C.A.R.
11.	Dairy unit					Completed			I.C.A.R.
12.	Poultry unit	Not started							
13.	Goatry unit	Not started							
14.	Mushroom Lab	Not started							
15.	Mushroom production unit								
16	Shade house	Not started							
17.	Soil test Lab					Completed			District Administration

* If not in use, then since when and reason for non-use

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Jeep	2005	431129.00	369715.0 K.M.	Required to be replaced Condemnation certificate sent to ATARI for replacement
Tractor	2006	361200.00	4100.0hrs	Required to be replaced (Maintenance cost is very high)
Bike	2017	50000		Running
Bike	2017	50000		Running

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Refrigerator	2007	11990.00	Good	I.C.A.R.
Food processor	2007	4995.00	Good	I.C.A.R.
Commercial gas cylinder	2008	3000.00	Good	I.C.A.R.
Weighing machine	2008	7540.00	Good	I.C.A.R.
Weighing machine	2010	12740.00	Good	I.C.A.R.
Weighing machine	2010	7260.00	Good	I.C.A.R.
Aqua soft dispenser	2012	20000.00	Good	I.C.A.R.
Crown corking machine	2013	19700.00	Good	I.C.A.R.
Tomato Pulpar	2013	29800.00	Good	I.C.A.R.
Screw type Juice Extractor	2013	22000.00	Good	I.C.A.R.
Refractometer	2013	43000.00	Good	I.C.A.R.
b. Farm machinery				
c. AV Aids				
Computer	2006	45000.00	Good	I.C.A.R.
UPS	2006	7000.00	Good	I.C.A.R.
Laser Printer	2006	8000.00	Good	I.C.A.R.
Fax Machine	2006	8000.00	Not installed	I.C.A.R.
Xerox	2007	72000.00	Not functioning	I.C.A.R.
2 KVA Stabilizer	2007	4850.00	Good	I.C.A.R.
Stabilizer 500 VA Manual Auto-cut	2007	1750.00	Good	I.C.A.R.
Camera	2005	12650.00	Good	
Camera	2007	14512.50	Not functioning properly	I.C.A.R.
LCD Projector	2007	51989.00	Good	I.C.A.R.
HAKIM Audio Visual Trolley	2007	8534.00	Good	I.C.A.R.
Projector Screen 8'x6'	2007	7550.00	Good	I.C.A.R.
15Mtrs special imported moulded VGA cable	2007	7500.00	Good	I.C.A.R.
Laser pointer torch with duel effect	2007	2200.00	Good	I.C.A.R.
AHUJA Medium Power Amplified -120 Watt	2013	8847.36	Good	I.C.A.R.
AHUJA 2 way compact PA wall Speaker	2013	8694.72	Good	I.C.A.R.
AHUJA Reflex Horn-WFA-21" Bell Dia	2013	986.84	Good	I.C.A.R.

AHUJA Driver unit –Model-AU40XT	2013	1408.77	Good	I.C.A.R.
AHUJA PA Microphone-Model AUD 101XLR	2013	1693.85	Good	I.C.A.R.

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Seed drill cum fertilizer drill	2005	775.00	Good	I.C.A.R.
Birsaridger plough	2005	485.00	Good	I.C.A.R.
Japanese paddy weeder	2005	525.00	Good	I.C.A.R.
Drylandweeder	2005	300.00	Good	I.C.A.R.
Birsa potato digger	2005	625.00	Good	I.C.A.R.
Paddy transplanter	2006	-	Good	
Cultivator 9 tine	2006	14200.00	Good	I.C.A.R.
Land leveler	2006	8080.00	Good	I.C.A.R.
Offset disk	2006	28020.00	Good	I.C.A.R.
Trailer 4 wheel with tyre tube	2006	76500.00	Good	I.C.A.R.
Disc plough 2 furrow	2007	26995.00	Good	I.C.A.R.
Grass cutter	2007	38500	Good	I.C.A.R.
M.B. Plough	2007	26993.00	Good	I.C.A.R.
Rottary tiller	2007	88585.00	Good	I.C.A.R.
Power sprayer	2007	48500.00	Good	I.C.A.R.
Cage wheel nut bolt type	2007	5250.00	Good	I.C.A.R.
Zero till fertilizer drill	2010	-	Good	I.C.A.R.
Power Tiller	2011		Good	I.C.A.R.
Field king laser Guided Land Leveler Machine	2012		Good	I.C.A.R.

1.8. Details SAC meeting* conducted in the year

Date	Number of Participants	Total statutory member present (State line dept.)	Salient Recommendations	Action taken	If not conducted, state reason
20.12.2023	35	35	Suggestions emerged for production of value-added products with maintaining complete chain of value addition process like market acceptability, market importance etc.	Jam and squash of Jackfruit and papaya jam produce and marketed by SHG under the guidance of KVK Scientist	
			As there is demand of vegetables and fruit cultivation in the Petarwar region, suggestions for production and sale of seedlings and saplings of new vegetables and fruits through of KVK, Bokaro	KVK Petarwar prepared 6000 mango sapling of Amrapali, Mallika, Langra, Malda and Himsagar for sale and distribution under different schemes. More than 50000	

			Center	seedling produced by trainees trained by KVK of tomato, brinjal chillies has been distributed under SCSP and TSP 1054 farmers	
			Dried product of Jackfruit was discussed briefly and suggested for its popularization	One OFT on dried product of jackfruit is planned and to be conducted during this year	
			It was decided to promote bel cultivation under limited water condition in the district. Suggested for training and demonstration on bel	Two training programme conducted in which 56 beneficiaries on plant propagation techniques of bael.	
			It was suggested that there is need of training and demonstration on milk processing, as there is availability of milk in the villages of Petarwar	One training of 24 participants of milk producing farmers conducted on processing of milk and their product like Paneer, sweets and ghee	
			It was decided to promote the fodder production programme for milch animals	Two training on production of fodder crop has been planned in this year	
			Suggestions emerged for development of natural/organic farming model at KVK Bokaro	KVK has already conducted one training of 40 farmers and 15 awareness programme were already organized. One Bio Resource Centre has been established at KVK and one female lady Soni Devi. 8 demonstration on Natural Farming has been conducted. At KVK 0.4 Ha. Plot for natural farming established	
			Strengthening of Farmer Produce Organization (FPO) with linking of farmers working at ground level was decided. KVK Bokaro should give the technical back stopping	Technical backstopping and guidance is already been given to all FPO of the district formed by NABARD. One exposure visit has been conducted of 100	

				members on 20.09.2023 INNRG Namkum Ranchi. They also given foundation seed for seed production programme of lentil and arhar	
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* Salient recommendation of SAC in bullet form

Attach a copy of SAC proceedings along with list of participants

2.a. District level data on agriculture, livestock and farming situation (2023)

Sl. No.	Items	Information
1	Major Farming system of the district	<ol style="list-style-type: none"> 1. Agriculture + Horticulture (Vegetable) + Animal Husbandry 2. Agriculture + Horticulture (Vegetable) 3. Agriculture + Animal Husbandry 4. Agriculture + Horticulture (Vegetable) + Animal Husbandry+ Fishery 5. Agriculture + Horticulture (Vegetable) + Animal Husbandry+ Lac culture 6. Agriculture + Animal Husbandry+ Lac culture Agriculture + Labour
2	One district one product (NITI Ayog)	
2	Agro-climatic Zone	<p>IV- Central North Eastern Plateau Zone</p> <p>Characteristics:</p> <p>Geographical area of Zone = 41293 K.m² Mining dominates in central part. Damodar, Barakar, More and Ajay are the main rivers of this zone. Damodar basin is famous for coal. This zone is characterized by having humid & sub humid tropical monsoon type of climate. Average rainfall of the zone is 1320 m.m. Monsoon breaks in the second week of June. In normal years pre monsoon rains are received in the month of May about 60 m.m. Apart from this winter rain during December- February is sparse. Soil developed on Rajmahal traps are dark, heavy textured, neutral in reaction and moderately well drained to poorly drained and moderately rich in N but poor in P&K. Soils of Dhanbad&Giridih areas are light textured, moderately to slightly acidic and moderately well drained and poor in N & P and moderate to fairly rich in K. Upland Soils of Ranchi and Hazaribagh areas are gravely to sandy, shallow, acidic and of very poor fertility status where as medium land soil are yellow coloured, slightly to moderate acidic, some what poorly drained & moderately fertile where as the soils of Koderma side are light textured, silty in nature, yellowish to reddish in colour& neutral to moderately acidic in reaction. These are poor to moderate in N, poor in available P and rich to very rich in K. Very limited irrigation potential has been exploited in this zone. Although it is claimed that 8-9% area is irrigated. Larger part of agricultural land is rainfed. Less than 55% area comes under net cultivated area. Good forest is available on 12-13 percent land. Rice, maize, wheat, potato, linseed, rapseed and mustard, til, niger, ground nut and vegetables are major crops of the region.</p> <p>Climate of the Bokaro district is sub humid with water deficiency in winter. Temperature ranges from 2^oC in winter to 45^oC in hot summer. The main drainage system is Damodar&Swarnrekha rivers. Only 5-8% of net sown area is irrigated. The average annual rainfall of the district is 1275 mm. Upland soils are red to brownish red in colour, light textured, well drained, acidic in reaction and poor in organic carbon, N, Ca, Mg., P & S. Medium land soils are yellow, yellowish in colour, light to medium texture,</p>

		moderately acidic and poor in N, Ca, Mg and organic matter. Whereas the low land soils are gray to grayish in colour, heavy textured, neutral to slightly alkaline in reaction, poorly drained and medium in N and organic matter. The major crops of the district are rice, maize, wheat, potato, lentil, linseed, rapeseed & mustard, groundnut, potato and vegetables like lady's finger, tomato, brinjal, French bean, radish, cauliflower, cabbage & cucurbits.					
3	Agro ecological situation	<ol style="list-style-type: none"> 1. Red sandy loam, gravely undulating topography with mines and forests: Undulating topography, having red sandy loam soil, full of gravels, covered with perennial forests, having mines 2. Sandy loam rainfed: Upland sandy loam soil, no irrigation facility, agriculture only depend on rain water 3. Sandy loam irrigated: Medium land, sandy loam soil, having irrigation facility Clay loam rainfed :Low land, clay loam soil, agriculture depend only rain water					
4	Soil type	<ol style="list-style-type: none"> 1. Stony and gravely soil: Found in the foot hill prone to intensive erosion low water holding capacity highly acidic low in fertility status and organic matter content only suitable for pasture and recreation purpose. 2. Light texture soil (Sandy soil) :Found in upland, coarse texture soil, highly acidic in reaction, low water holding capacity, low in organic matter content and poor in fertility status, rich in micronutrient except Boron and Molybdenum, prone to erosion. 3. Medium texture soil (Loamy soil): Found in medium land, soil texture is mainly sandy loam to sandy clay loam, soils are moderately acidic, poor in fertility status and low in organic matter content and water holding capacity is moderate. Fine textured soil (Clayey soil) :Heavy texture soil , found in low land, soils are fairly acidic to neutral in reaction, water holding capacity is high, organic matter content is medium and moderate in fertility status.					
5	Productivity of major crops of districts	Crop	Area (ha)	Productivity (Qtl /ha)			
		Summer Rice	148	19.3			
		Kharif Rice	41576	29.5			
		Maize	2386	25.0			
		Wheat	2789	22.34			
		Finger millet	125	6.8			
		Chick pea	4815	15			
		Potato	1056	296			
		Onion	849	188.6			
		Oilseed					
		Veg. (name)					
		Fruit (Name)					
		Others					
6	Mean yearly temperature, rainfall, humidity of the district	Month	Rainfall (mm)	Temperature °C		Relative Humidity(%)	
				Maximum	Minimum	7.00AM	2.00PM
7	Production of major livestock products	Category		Population			
		Cattle					

	like, , etc.	<i>Crossbred</i>	24176
		<i>Indigenous</i>	458804
		Buffalo	78806
		Sheep	
		Crossbred	200
		<i>Indigenous</i>	43166
		Goats	224396
		Pigs	224326
		<i>Crossbred</i>	2054
		<i>Indigenous</i>	686137
		Rabbits	463
		Poultry	
		Hens	
		<i>Desi</i>	177167
		<i>Improved</i>	59932
		Ducks	14141
		Turkey and others	411

Note: Please give recent data only

2.b. Details of operational area / villages (2023)

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified(Crop wise)	Identified Thrust Area
1.	Bermo	Petarwar	Ambadih, Chargi, Jaruatanr , Bundu, Lukaiya, Koh, Jaradih, Itke, Chanpi, Angwali, Kojram, Rukam etc.	Paddy Maize Groundnut Vegetables Potato Sweet potato Onion Mustard Poultry Goatry	1. Low productivity in cereals & pulses 2. Low profitability in vegetable cultivation 3. Low productivity in poultry & goatry	1. Introduction of high yielding and hybrid varieties of paddy 2. INM & IPM in paddy 3. Introduction of disease resistant variety of vegetable specially in tomato & brinjal
2.	Bermo	Kasmar	Durgapur, Raghunathpur, Madhukarpur, Mayapur, Kurko, Chandipur, Baraikala, Ranitanr, Manjura, Rangamati, Hisim, Kedla.	Paddy Maize Wheat Arhar Gram Niger Mustard Groundnut Vegetable Potato Sweet potato Lac Poultry Goatry	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in oilseed crops 5. Low productivity in lac	4. Introduction high yielding variety of Arhar gram, groundnut, mustard and Niger 5. Management of soil acidity through furrow application of lime and sweet potato cultivation with integrated nutrient management 6. Income generation activity for rural youth & farm women
3.	Bermo	Gomia	Saram, Dhedhe, Tulbul, Mahuatanr, Lalpaniya,	Paddy Vegetable Maize Wheat	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops	7. Rain water harvesting.

			Kander	Arhar Niger Mustard Sweet potato Poultry Goatry Lac	3. Low productivity in poultry & goatry 4. Low productivity in oilseed crops 5. Low productivity in lac	8. INM & IPM 9. Post harvest management, marketing & value addition 10. Farm mechanization
4.	Bermo	Bermo	Jaridih, Govindpur	Paddy Maize Arhar Niger Vegetable Potato Lac Goatry	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in lac	11. Introduction of high yielding variety of maize and wheat with integrated crop management 12. Moisture conservation and micro irrigation system
5.	Bermo	Chandrapura	Taranari, Narra, Telo, Jarua, Kurumba, Paranga	Paddy Maize Arhar Vegetable Potato Lac Poultry Goatry	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in lac	13. Breed improvement in goatry and piggery 14. Disease and feed management in poultry and goatry 15. Organic vegetable cultivation 16. Popularization of sweet corn and baby corn
6.	Bermo	Nawadih	Alargo, Bhalmara, Chapri, Narayanpur, Penk, Kothi	Paddy Maize Arhar Niger Vegetable Potato Lac Poultry Goatry Piggery	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry, goatry & piggery 4. Low productivity in oilseed crops 5. Low productivity in lac	17. Popularization of low volume high value vegetable crops such as broccoli, coloured capsicum, 18. Popularization of mushroom production
7.	Chas	Chas	Dharpura, Pokhanna, Jhopro, Ulgoda, Pindrajora, KasiJ haria,	Paddy Maize Wheat Arhar Gram Mustard Vegetable Poultry Goatry Lac	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in oilseed crops 5. Low productivity in lac	
8.	Chas	Chandankiyari	Chandankiyari, Bansgari, Lanka, Machatanr, Siyaljori, Bermo	Paddy Maize Groundnut Vegetables Potato Poultry Goatry	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in oilseed crops 5. Low productivity in lac	

9.		Jaridih	Tilaiya, Bhaski, Beldih, Araju, Gangjori, Pichri	Paddy Maize Wheat Arhar Gram Mustard Vegetable Poultry Goatry	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in oilseed crops 5. Low productivity in lac	
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2. c. Details of village adoption programme during 2023:

Name of the villages adopted by Sr. Scientist & Head and SMS (in year 2023) for its development and action plan

Name of village	Block	Action taken for development
Raghunathpur	Kasmar	Base line survey is completed for knowing the existing condition of the village. Problems have been identified and accordingly some steps have been taken through our mandated activities. Scientists are regularly visiting these adopted villages and providing timely advice for crops related problems.
Chandipur	Kasmar	
Jaruatanr	Petarwar	
Manjura	Kasmar	
Koh	Petarwar	
Ambadih	Petarwar	

2.1 Priority thrust areas of KVKs

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

3.2 ACHIEVEMENTS ON TECHNOLOGIES ASSESSED AND REFINED (OFT)

3.2.1 Technology Assessed by KVK (Discipline wise)

Technologies assessed under various crops by KVKs (Crop Production)				
	Thematic areas	Number of the technologies (Technology Interventions)	No. of trials	No. of Locations
1	Integrated Nutrient Management	2	20	20
2	Varietal Evaluation			
3	Integrated Pest Management			
4	Integrated Crop Management			
5	Integrated Disease Management			
6	Small Scale Income Generation Enterprises			
7	Weed Management			
8	Resource Conservation Technology			
9	Farm Machineries			
10	Integrated Farming System			
11	Seed / Plant production			
12	Post Harvest Technology / Value addition	2	10	10
13	Drudgery Reduction			
14	Storage Technique			
15	Others (Pl. specify)			
16	Cropping Systems			
17	Farm Mechanization			
18	Others	1	10	10
	Total	5	40	40
Technologies assessed under livestock by KVKs				
	Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
1	Disease Management			
2	Evaluation of Breeds			
3	Feed and Fodder management			
4	Nutrition Management			
5	Production and Management			
6	Processing and value addition			
7	Others (Pl. specify)			
	Total	0	0	0
Technologies assessed under various enterprises by KVKs				
	Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
1	Drudgery reduction			
2	Entrepreneurship Development			

3	Health and nutrition			
4	Processing and value addition			
5	Energy conservation			
6	Small-scale income generation			
7	Storage techniques			
8	Household food security			
9	Organic farming			
10	Agroforestry management			
11	Mechanization			
12	Resource conservation technology			
13	Value Addition			
14	Others			
	Total	0	0	0
Technologies assessed under various enterprises for women empowerment				
	Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
1	Drudgery Reduction			
2	Entrepreneurship Development			
3	Health and Nutrition			
4	Value Addition			
5	Others			
	Total	0	0	0

3.2.2 OFT (All discipline)

OFT-1 Home Science

1.	Title of On farm Trial	Assessment of Preparation methods of ripe Jack Fruit papad (Bar).
2.	Problem diagnosed	Jack fruit is heavily produced in local area of Bokaro district but not properly utilized due to lack of processing knowledge.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<p>F.P. :Local people consume ripe jack fruit just as such as ripe.</p> <p>T.O.1: Preparation of Bar from ripe Jack Fruit.</p> <p>Formulation --Jack fruit pulp 1 kg, Sugar – 100g, Citric acid - 5.0g, Sodium Benzoate-1.0g</p> <p>T.O. 2: Preparation of Bar from ripe jack fruit blended with mango</p> <p>Formulation – Ingredients-Well ripened jack fruit pulp juice – 500 g ,Mango pulp–500gm, Sugar – 100g, Citric acid -5.0g, Sodium Benzoate-1.0g</p>
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-CARI, Goa
5.	Production system and thematic area	Rainfed Upland and Value Addition
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Personal contact and group discussion.

OFT – I Jack Fruit Based Papad

Table – 1 Nutritive value of all Three food Produce per 100g of the OFT

Nutrients T.options	Protein (g)	Fat (g)	Mineral (g)	Fiber (g)	CHO	Energy (kal)	Calcium (mg)	Phos (mg)	Iron (mg)
F.P. (Jack Fruit) Bulb	1.9	0.1	0.9	1.1	19.8	88	20	41	0.56
T.O.I Jack Fruit Bar	4.41	0.23	2.10	2.54	18.18	295.15	35.6	37.18	3.03
T.O. II Jack Mango	3.15	0.62	1.65	2.25	70.72	302	45.5	71.5	2.36

Table – 2 Sensory Evaluation of all three food Produce of OFT

Para metars T.O PH	Appeara nce	Colour	Flavour	Taste	Overall Acceptability	Overall grading
F.P.	5.12	4.87	4.75	4.25	6.65	5.12
T.O. I	7.15	7.02	7.12	7.25	7.75	7.25
T.O. II	8.52	8.65	8.52	8.77	8.65	8.62

Table – 3 Economics Involved in the preparation of all three food Produce of the OFT

Nutrients T.options	Cost of Produce/ kg	Market Price of Produce/ kg	Net Profit/kg	B:C ration
F.P.	25 Rs/kg	50 Rs/kg	25 Rs/kg	2:1
T.O.I	100 Rs/kg	250 Rs/kg	150 Rs/kg	2.5:1
T.O. II	150 Rs/kg	550 Rs/kg	400 Rs/kg	3.66:1

Please provide all the OFTs in same format Photographs in jpg. (Attach separately also with captions)

OFT-2 Home Science

1.	Title of On farm Trial	Preparation and Preservation of ripe wood apple fruit as squash
2.	Problem diagnosed	Heavy wastage of ripe wood apple fruit and sold in local market very very low price.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<p>Farmers Practice: Local people consume ripe wood apple as homemade drink known as sharbat</p> <p>TO1: Preparation and preservation of squash develop from ripe wood apple having formulation given below. Formulation: Fruit pulp: 1 kg, sugar-820gm, citric acid-15gm, water-165ml, KMS-1.2gm</p> <p>TO2: Preparation and preservation of squash develop from ripe wood apple blended with ripe mango. Formulation: Fruit pulp: 500gm, ripe mango pulp-500gm, sugar-820gm, citric acid-15gm, water-165ml, KMS-1.2gm</p>
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	Hand Book of Horticulture ICAR, New Delhi.
5.	Production system and thematic area	Rainfed Upland and Preservation
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Personal contact and group discussion.

Beal Square and Beal Mango Square

Nutrients T.options	Protein (g)	Fat (g)	Mineral (g)	Fiber (g)	CHO	Energy (kal)	Calcium (mg)	Phos (mg)	Iron (mg)
F.P. Beal Sherbat	1.99	0.52	1.68	2.88	46.59	198.92	98.62	54.93	0.77
T.O.I Beal Square	0.39	0.05	0.37	0.56	44.98	182.01	21.26	10.14	0.17
T.O. II Beal Mango Square	0.25	0.03	0.23	0.36	28.82	116.62	13.62	6.50	0.11

Table – 2 Economic Involved in Beal based Square pre Ph

Nutrients T.options	Cost of produce/ kg unit	Market Price of Produce/ kg unit	Net profit of Produce per kg unit	B:C ration
F.P. (Beal Shar-beat)	60 Rs/Liter	200 Rs/ liter	140 Rs/ liter	3.33:1
T.O.I Beal Square	80 Rs/ liter	315 Rs/liter	238 Rs/liter	3.93:1
T.O. II Beal Square blended with Mango	95 Rs/ liter	450 rs/liter	355 Rs/liter	4.73:1



OFT-3: Horticulture

1.	Title of On Farm Trial	Assessment of Biomass mulching in Mango
2.	Problem diagnosed	Low fruit yield due to poor floor/surface and nutrient management in mango
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP-No mulching/ Litter fall of trees TO ₁ - Tephrosia 1 kg dry biomass/meter square canopy- (plant spread) TO ₂ : Grass/ paddy straw/ Any local available mulching 15 cm thick (plant spread) + Greece band 30 cm from GL Mango- Variety : Amrapali
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR, RCER, Ranchi
5.	Production system and thematic area	Fruit based production system, INM
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	Mulching of mango tree with TO ₁ - Tephrosia 1 kg dry biomass/meter square canopy- (plant spread) has resulted maximum moisture retention capacity, increase of soil organic carbon and yield of mango compared to No mulching/ Litter fall of trees and paddy straw.
8.	Constraints identified and feedback for research	Unavailability of CuSO ₄ in local market.
9.	Process of farmers participation and their reaction	Personal contact and group discussion.

Thematic area: Integrated Nutrient Management

Problem definition: Deficiency of micronutrient like zinc, boron contributing towards poor yield and quality of Mango.

Technology assessed:

Table-1: Effect of micronutrient on yield and quality of Mango.

Technology option	No. of trials	Yield component					Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of initial fruit/panicle	No. of final fruit set	Fruit wt. (g)	Yield (q/ha)	TSS				
FP-No mulching/ Litter fall of trees	07	32.50	1.60	132.00	5.4	18.5	51000.00	135000.00	84000.00	2.64
TO ₁ - Tephrosia 1 kg dry biomass/meter square canopy- (plant spread)		48.00	2.50	152.00	8.8	21.20	56000.00	220000.00	164000.00	3.92
TO ₂ : Grass/ paddy straw/ Any local available mulching 15 cm thick (plant spread) + Greece band 30 cm from GL		65.00	3.25	170.50	8.3	22.00	54000.00	207500.00	153500.00	3.84

Results: Mulching of mango tree with TO₁- Tephrosia 1 kg dry biomass/meter square canopy- (plant spread) has resulted maximum moisture retention capacity, increase of soil organic carbon and yield of mango compared to No mulching/ Litter fall of trees and paddy straw.



Without nutrients Mango tree

Application of Nutrient in Mango tree

• **OFT-4: Horticulture**

1.	Title of On farm Trial (OFT)	Assessment of microbial consortia against wilting in Brinjal
2.	Problem diagnosed	Low yield from Brinjal due to heavy incidence of wilt disease infection in Bokaro district
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers' practice: Use of Carbandazim@2gm /lit. of water Technology option 1: Arka Microbial Consortium (N fixing, P & Zn Solubilizing and plant growth microbes) use with FYM (1:100) ratio at root zone. Technology option 2: NRC Litchi Consortium (Arbuscular Mycorrhiza, Azotobacter Chroococcum and Trichoderma Virideisolate NRCL(T01) use with FYM (1:150) ratio at root zone.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-IIHR Bangaluru & NRC, Litchi Muzafarpur
5.	Production system and thematic area	IDM, Production Technology
6.	Performance of the Technology with performance indicators	Disease incidence %, yield/ha , and B:C Ratio
7.	Final recommendation for micro level situation	According to parameters result indicates that T2 is superior than T1
8.	Constraints identified and feedback for research	Arka microbial consortium and NRC Litchi Consortium both of these are not available in Bokaro market only available in ICAR institute.
9.	Process of farmers participation and their reaction	Farmers are very interested in this technology because of low incidence of Brinjal wilt and getting benefited by this technology

- **Thematic area:** IDM, Production Technology
- **Problem definition:** Low yield from Brinjal due to heavy incidence of wilt disease infection in Bokaro district

Name of OFT: Assessment of microbial consortia against wilting in Brinjal

Thematic area	Technology options with detailed treatments	Area (ha in crop & Fodder)/ Nos (in livestock)		Initial Plant Population / subplot	15 Days (Number of Plants wilted)	30 Days (Number of Plants wilted)	45 Days (Number of Plants wilted)	60 Days (Number of Plants wilted)	75 Days (Number of Plants wilted)
		Proposed	Actual						
IDM, Production Technology	1.Farmers' practice: Use of Carbandazim@2gm /lit. of water	01	01	311	0	3.9 (1.25%)	22.2 (7.14%)	28.2 (9.07%)	36.4 (11.70%)
	Technology option 1 Arka Microbial Consortium (N fixing, P & Zn Solubilizing and plant growth microbes) use with FYM (1:100) ratio at root zone			311	0	3.2 (1.03)	5.6 (1.80%)	6.5 (2.09%)	8.7 (2.80%)
	Technology option 2: NRC Litchi Consortium (<i>Arbuscular Mycorrhiza</i> , <i>Azotobacter Chroococcum</i> and <i>Trichoderma Virideisolate NRCLT01</i>) use with FYM (1:150) ratio at root zone.			311	0	2.8 (0.90%)	5.2 (1.67%)	6.2 (1.99%)	7.9 (2.54%)
	CD (5%)						1.19	2.45	2.68
	S.Em ±						0.58	1.2	1.31

Please provide all the OFTs in same format Photographs in jpg. (Attach separately also with captions) **Price of brinjal is @ 1000/quintal.**

Thematic area	Technology options with detailed treatments	Area (ha in crop & Fodder)/ Nos (in livestock)		Observation detail of yield attributing characters		
		Proposed	Actual	Plant Height (cm)	Av. Fruit weight (g)	Yield Qt/Ha
IDM, Production Technology	1.Farmers' practice: Use of Carbandazim@2gm /lit. of water	01	01	58.2	88.4	164
	Technology option 1Arka Microbial Consortium (N fixing, P & Zn Solubilizing and plant growth microbes) use with FYM (1:100) ratio at root zone			60.4	88.4	216
	Technology option 2:NRC Litchi Consortium (<i>Arbuscular Mycorrhiza</i> , <i>Azotobacter Chroococcum</i> and <i>Trichoderma Viride</i> isolate NRCLT01) use with FYM (1:150) ratio at root zone.			61	90	226
	CD (5%)			0.67	2.47	2.41
	S.Em ±			0.33	1.21	1.18

Thematic area	Technology options with detailed treatments	Area (ha in crop & Fodder)/ Nos (in livestock)		Yield (q/ha)	Cost of cultivation(Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Proposed	Actual					
IDM, Production Technology	1.Farmers' practice: Use of Carbandazim@2gm /lit. of water	01	01	164	61000	164000	103000	2.68
	Technology option 1 Arka Microbial Consortium (N fixing, P & Zn Solubilizing and plant growth microbes) use with FYM (1:100) ratio at root zone			216	65000	216000	151000	3.32
	Technology option 2: NRC Litchi Consortium (<i>Arbuscular Mycorrhiza</i> , <i>Azotobacter Chroococcum</i> and <i>Trichoderma Viride</i> isolate NRCLT01) use with FYM (1:150) ratio at root zone.			226	69000	226000	157000	3.27

Please provide all the OFTs in same format Photographs in jpg. (Attach separately also with captions) **Price of brinjal is @ 1000/quintal.**



Farmers' practice



1Arka Microbial Consortium



NRC Litchi Consortium

OFT-5

1.	Title of On Farm Trial	Assessment of Effectiveness Extension Methods for dissemination of commercial Vegetable Production Technologies.
2.	Problem Diagnose	Lack of technical knowledge vegetable production
3.	Details of Technologies selected for assessment/refinement	Farmers Practice: individual contact method (farm and home visit) TO1: Group contact Method (Demonstration, Lecture, Participatory Discussion/Training) TO2: Mass Contact (Leaflet, Mobile Advisory, A/V film)
4.	Source of Technology	IARI, ICAR New Delhi, ATARI, Patna
5.	Replication	10
6.	Production System & Thematic Area	Rainfed and upland, Vegetable Production
7.	Performance of the Technology with performance indicators	i. Adoption ii. Knowledge iii. Attitude towards extension methods
8.	Final recommendation for micro level situation	Farmers admitted that Group contact Method (Demonstration, Lecture, Participatory Discussion/Training) was found very effective in comparison to other technological option
9.	Constraints identified and feedback for research	Farmers have no reading habits or little reading habit due to illiteracy and lack of good literature in local language. KVK providing literature in local language to understand the technology of the vegetable production
10.	Process of farmers participation and their reaction	Personal contact' Training and goshi with farmers.

Table: - 1

Technology option	Technical Parameter			Effective ness Intensity (N=60)	Economic Parameter			
	Effectiveness of extension method(%)				Cost of cultivation (Rs./ha.)	Gross income(Rs./ha.)	Net income(Rs./ha.)	B:C ratio
	Less Effective(N=20)	Effective(N=20)	Most Effective(N=20)					
Farmers Practice (TO-I): Individual contact method (farm and home visit)	5(25)	8(40)	7(35)	1.65	75800	168500	92700	2.22
TO-II : Group contact Method (Demonstration, Lecture, Participatory Discussion/Training)	3(15)	7(35)	10(50)	2.45	78900	225600	146700	2.85
T0-III : Mass Contact (Leaflet, Mobile Advisory, A/V film)	14(70)	2(10)	4(20)	1.30	71500	190800	119300	2.66
Result: TO-II : Group contact Method should be adopted by Extension and experts for effective and easy transfer of Agriculture Technology on Farmers Field.								



Farmers Practice



Technology Option-I



Technology Option-II

ACHIEVEMENTS OF FRONTLINE DEMONSTRATIONS (FLD)

A. Overall achievements of FLDs conducted during the year 2023

S.No	Crop category		No. of FLD	Area	No of beneficiaries	Yield in Demo (q/ha)	Yield in check (q/ha)
	Cereals	Paddy	50	20	50	32.6	28.4
		Finger millet	28	10	28	18.2	14.8
	Oil Seed						
	Pulses						
	Horticulture Crops	Brinjal	15	1.0	15	107.20	65.0
		Cauliflower	20	1.0	20	250.0	150.0
		Okra	50	1.5	50	150.0	74
	Other crops						
	Hybrid crop						
	Livestock						
	Fisheries						
	Other enterprises						
	Women empowerment						
	Farm Machinery						
	Grand Total						

B. Details of FLDs conducted during the year 2023

A. Cereals

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1.	Paddy	Crop Production	Var- IR64drt, seed treatment, line sowing	20.0	20.0	-	-	18	-	32	-	50	-	50	
2.	Ragi	Crop Production	Var- A-404, seed treatment, line sowing	10.0	10.0	-	-	16	-	12	-	28	-	28	

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Paddy	Crop Production	Var- IR64 drt, line sowing, seed treatment	180	75	32.6	28.4	14.79	-	-	29600.00	65200.00	35600.00	2.20	29600.00	56800.00	27200.00	1.91
Ragi	Crop Production	Var- A-404, line sowing, seed treatment	28	10	18.2	14.8	22.9	-	-	16500.00	54600.00	38100.00	3.30	16000.00	44400.00	28900.00	2.77
		Total															

Details of farming situation

Sl. No.	Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)				Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
					N	P ₂ O ₅	K ₂ O	OC					
1.													
2.													
3.													
4.													
5.													

In both the Tables, information of same crop should be provided. For example, if in Table 3.2A crops are mentioned as a,b,c,d etc., in the table for Details of farming situation, the same crop should be mentioned in the identical sequence.

1. Oilseeds

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)				
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Total																

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

2. Pulses

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)				
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
	Total															

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Field bean											
Others (Pl. specify)											
Total Veg. Crops											
Commercial Crops											
Cotton											
Coconut											
Others (Pl. specify)											
Total Commercial Crops											
Fodder crops											
Napier (Fodder)											
Maize (Fodder)											
Sorghum (Fodder)											
Others (Pl. specify)											
Total Fodder Crops											

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

7. Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	
Buffalo																	
Poultry																	
Rabbitry																	
Piggery																	
Sheep and goat																	
Duckery																	
Others (Pl. specify)																	
Total																	

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

8. Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	
Mussels																	
Ornamental fishes																	
Others (pl. specify)																	
Total																	

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

9. Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit				
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Oyster mushroom	Enterprise development																
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl. specify)																	
Total																	

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

planting tools and machineries										
Total Sowing and planting Machineries										
Intercultural operation tools and machineries										
Irrigation management tools and machineries										
Plant protection tools and machineries										
Harvesting tools and machineries										
Postharvest processing tools and machineries										
Total mechanization tools and machineries										
Others										
Total of Others										

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
2.	Farmers Training				
3.	Media coverage				
4.	Training for extension functionaries				

A. PERFORMANCE OF THE DEMONSTRATION UNDER CFLD ON PULSE AND OILSEED CROPS (CFLD)
(During Kharif, Rabi and Summer)

a. Oilseed:

Sl. No	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha) 7 years	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			% Increase	Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.		D	S	P
1	Sesame	Local Til	3.76	3.2	3.0	8	GT-4+ Line sowing + Seed treatment + IPM	44	10	6.2	3.4	4.8	41.17	50	21.6	(-) 40
2	Niger	Local Niger	4.5	2.9	4.0	7.5	IGPM 8004+ Line sowing + Seed treatment + IPM	81	20	4.8	3.7	4.25	14.86	31.7	6.25	(-)43.3
3	Linseed	Local Tisi	4.1	3.0	4.2	18	Divya+ Line sowing + Seed treatment + IPM	53	20	9.4	6.3	7.8	23.80	47.1 6	34.48	-35
4	Mustard	Local	5.5	6.0	8.19	12	BBM-1+ Line sowing + Seed treatment	169	60	13.8	9.7	11.7	20.61	25.8	32.95	-19.86

+ IPM

B. Economic parameters

Sl. No.	Crop	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
			Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1.	Sesame	GT-4, Line sowing, Seed treatment, Sulphur, Pest & Disease management	10500	24000	13500	2.28	13500	38400	24900	2.8
2.	Niger	IGPM 8004, Line sowing, Seed treatment, Sulphur, Pest & Disease management	14500	31185	16685	2.15	18600	42966	24366	2.31
3.	Linseed	Var- Divya, Line sowing, Sulphur, pest & disease management	14600	29300	14700	2	21400	45800	24400	2.14
	Mustard	BBM-1, Line sowing, Sulphur, pest & disease management	18900	39500	20600	2.08	24600	61400	36800	2.49

C. Socio-economic impact parameters 2023

Sl. No.	Crop	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1.	Sesame	Var- GT-4, Line sowing, Sulphur, pest & disease management	4800	108	80	480	400	Education, Health, Daily expenses	40
2.	Nigar	Var- IGPM 8004, Line sowing, Sulphur, pest & disease management	850	72	60/	12	40	Seed and house hold	10
3.	Linseed	Var- Divya, Line sowing, Sulphur, pest & disease management	14500	210	75	22	85	Livelihood	35
4.	Mustard	Var-BBM-1, Line sowing,	64200	2200	48	56	320	Livelihood	35

		Sulphur, pest & disease management							
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D. Oilseed Farmers' perception of the intervention demonstrated 2023

Sl. No.	Crop	Technologies demonstrated (with name)	Farmers' Perception parameters					Suggestions, for change/improvement, if any
			Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	
1.	Sesame	Var- GT-4, Line sowing, Sulphur, pest & disease management	Yes	Yes	75%	No	Yes	Good variety
2.	Niger	Var- IGPM 8004, Line sowing, Sulphur, pest & disease management	Yes.	Yes	Yes	No	This technology is acceptable to all villages.	No
3.	Linseed	Var- Divya, Line sowing, Sulphur, pest & disease management	Yes	Good	80	No	74%	No
4.	Mustard	Var-BBM-1, Line sowing, Sulphur, pest & disease management	Yes	Good	75	No	75%	No

Photo



Details of budget utilization

Sesame	i) Critical input	45000	45000	NIL
	ii) TA/DA/POL etc. for monitoring	1000	1000	
	iii) Extension Activities (Field day)	3000	3000	NIL
	iv) Publication of literature	1000	1000	
	Total	50000	50000	NIL
Niger	i) Critical input	90000	90000	NIL
	ii) TA/DA/POL etc. for monitoring	2000	2000	
	iii) Extension Activities (Field day)	4000	4000	NIL
	iv) Publication of literature	4000	4000	
	Total	100000	100000	NIL
Linseed	i) Critical input	90000	90000	NIL
	ii) TA/DA/POL etc. for monitoring	2000	2000	
	iii) Extension Activities (Field day)	4000	4000	NIL
	iv) Publication of literature	4000	4000	
Mustard	i) Critical input	324000	324000	NIL
	ii) TA/DA/POL etc. for monitoring	8000	8000	
	iii) Extension Activities (Field day)	20000	20000	NIL
	iv) Publication of literature	8000	8000	
Grand Total		610000	610000	NIL

b. Pulses

A. Technical Parameters:

Pulses:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha) /years	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			% increase	Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.		D	S	P
				1	Black gram	Local				6.19	6.5	5.5	14	WBU109 Sulata	81	30
2	Pigeon pea	Local	9.5	7.5	7.0	18	IPA203	163	40	14.8	8.6	11.7	36.04	56	67.1	(-)35
3	Lentil	Local	7.88	6.5	6.0	19	IPL321	69	20	12.9	7.5	10.2	36.0	56.9	70	(-)46.3

E. Economic parameters

Sl. No.	Crop	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
			Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1.	Black gram	WBU109(Sulata)	16400	42250	25850	2.8	19000	67600	48600	3.5
2.	Pigeonpea	IPA203	30500	82400	51900	2.70	34000	107300	73300	3.15
3.	Lentil	IPL321	26000	63000	37000	2.42	31000	81600	50600	2.63

F. Socio-economic impact parameters 2023

Sl. No.	Crop	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Man days/house hold)
1.	Black gram	WBU 109 Sulata	6400	286	65	1050	1000	Education, Health, Daily expenses	45
2.	Pigeon pea	IPA203	5500	650	70	1500	800	Education, Health, Daily expenses	60

3.	Lentil	IPL321	7400	850	72	550	1200	Education, Health, Daily expenses	55
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G. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Black gram -Branching of plant is good	The performance of this variety is good in yield in comparison to local variety	Yield is better in comparison to Local check	It is good variety in kharif season due to its resistant to mosaic
Pigeon Pea -Branching of Plant is good	The performance of this variety is good in yield in comparison to local variety	Yield is better in comparison to Local check	It is good variety in kharif season due to its resistant to mosaic
Lentil Branching of Plant is good	The performance of this variety is good in yield in comparison to local variety	Yield is better in comparison to Local check	It is good variety in kharif season due to its resistant to mosaic

H. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.Blackgram	Training and Field Day	8.07.23, 04.08.2023 and 15.10.23	76, 32 and 81
2.Pigeon Pea	Training and Field Day	24.06.2023, 04.07.2023 and 19.07.2023	36,28 and 24
3.Lentil	Training and Field Day	11.10.2023, 28.10.2023 and 07.11.2023	36,24 and 26

I. Sequential good quality photographs (as per crop stages i.e. growth & development)

J. Farmers' training photographs





K. Quality Action Photographs of field visits/field days and technology demonstrated.

J. Details of budget utilization

Pigeon Pea	i) Critical input	324000	324000	NIL
	ii) TA/DA/POL etc. for monitoring	8000	8000	
	iii) Extension Activities (Field day)	20000	20000	NIL
	iv) Publication of literature	8000	8000	
	Total	360000	360000	NIL
Blackgram	i) Critical input	243000	243000	NIL
	ii) TA/DA/POL etc. for monitoring	8000	8000	

	iii) Extension Activities (Field day)	10000	10000	NIL
	iv)Publication of literature	9000	9000	
	Total	270000	270000	NIL
Lentil	i) Critical input	162000	162000	NIL
	ii) TA/DA/POL etc. for monitoring	5000	5000	
	iii) Extension Activities (Field day)	8000	8000	NIL
	iv)Publication of literature	5000	5000	
Grand Total		810000	810000	NIL

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Enterprise development													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post-Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
TOTAL	2	30	20	50	-	25	25	-	5	5	30	50	80

C) Extension Personnel Including the sponsored training programmes (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops	1	24	26	50	25	-	25	24	-	24	73	26	99
Value addition													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs	1	-	46	46	-	4	4	-	4	4	-	54	54
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
TOTAL	2	24	72	96	25	4	29	24	4	28	73	80	153

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Production of organic inputs	1	-	20	20	-	-	-	-	-	-	-	20	20
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops	1	-	30	30	-	25	25	-	5	5	-	60	60
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition	1	-	21	21	-	-	-	-	8	8	-	29	29
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology	1	12	5	17	-	-	-	-	-	-	12	5	17
Fry and fingerling rearing													
Small scale processing													
Post-Harvest Technology	1	8	12	20	-	-	-	-	-	-	8	12	20
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (ICT application in agriculture)													
TOTAL	5	50	58	108	-	25	25	-	13	13	50	96	146

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops	1	24	26	50	25	-	25	24	-	24	73	26	99
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology	1	16	26	42	6	12	18	10	14	24	32	52	84
Formation and Management of SHGs	1	-	46	46	-	4	4	-	4	4	-	54	54
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security	1	-	20	20	-	-	-	-	-	-	-	20	20
Women and Child care													
Low cost and nutrient efficient diet designing	2	7	46	53	-	-	-	-	-	-	7	46	53
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any													
TOTAL	5	47	164	211	31	16	47	34	18	52	112	198	310

Please furnish the details of training programmes as Annexure in the proforma given below

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of SC/ST			Number of participants (others)			Over all participants
					M	F	Total	M	F	Total	
	PF	Mango Cultivation	1	Off				26	-	26	26
	PF	Training on Jackfruit and Mango Pickle	1	Off				-	25	25	25
	PF	Cucurbits Production Technology	1	On	30	-	30	-	-	-	30
	PF	Production technology of Ole	1	On	30	-	30	-	-	-	30
	PF	Training on Kharif crops	1	On	2	4	6	5	11	16	22
	PF	Preparation of Mango Pickle	1	Off				-	22	22	22
	PF	Preparation of Mango Pickle	1	Off				-	33	33	33
	Pf	Water management in summer crops	1	Off	10	15	25	1	-	1	28
	Pf	Kharif vegetable Production techniques	1	On	-	53	53	-	-	-	53
	EF	Formation and Management of SH1 group leaders	1	On	-	8	8	-	46	46	54
	Pf	Scientific cultivation of kharif crops under watershed development	1	On				0	50	50	50
	Pf	Scientific cultivation of kharif crops under watershed development	1	On	2	-	2	0	48	48	50
	Pf	Training on processing of mushroom	1	Off				-	29	29	29
	Pf	Scientific cultivation of kharif crops under watershed development	1	On	1	-	1	24	25	49	50
	Pf	Scientific cultivation of kharif crops under watershed development	1	On		35	35	6	9	15	50
	Pf	Scientific cultivation of kharif crops under watershed development	1	On	4	30	-	5	11	16	50
	Pf	Scientific cultivation of Ragi	1	Off	7	12	19	2	12	14	33
	RY	Training on Entrepreneurship	1	Off				8	12	20	20
	Ef	Fodder cultivation in kharif season	1	On	49	-	-	24	26	50	99
	PF	Scientific cultivation of Paddy	1	On	34	-	34	-	-	-	34
	PF	Scientific cultivation of Paddy	1	On				23	-	23	23
	PF	Scientific cultivation of Rainy Season Tomato	1	On	-	53	53	-	-	-	53
	RY	Scope of Fish farming based enterprises development	1	Off				12	5	17	17
	PF	Scientific cultivation of cucurbitaceous crop	1	On	4	23	27	-	--	-	27
	PF	Scientific cultivation of Pigeon Pea	1	On	10	10	20	20	7	27	47
	PF	Scientific cultivation of black gram	1	On	7	4	11	20	4	24	35
	PF	Scientific cultivation of Pigeon Pea	1	On	8	17	25	23	16	39	64
	PF	Scientific cultivation of sesame	1	On	8	21	29	7	4	11	40
	PF	Scientific cultivation of paddy	1	On				-	-	-	33
	PF	Scientific cultivation of rainy season Tomato	1	On	13	4	17	-	-	-	17

	PF	Scientific cultivation of black gram	1	On	6	13	19	16	11	27	46
	PF	Training on Natural farming	1	On				-	-	-	60
	PF	Scientific cultivation of Pigeon Pea	1	On	13	7	20	18	14	32	52
	Pf	Cultivation of Finger millet	1	Off	-	20	20	-	-	-	20
	RY	Scientific cultivation of sesame	5	On				-	1	1	21
	PF	Vermi compost Production Technology & meri gold cultivation	1	On	8	13	21	-	20	20	20
	Ef	Scientific cultivation of Niger	1	Off				14	23	37	58
	PF	Importance of millets in present scenario	1	On				-	17	17	17
	Pf	Production Technology horse Gram	1	Off	-	1	1	-	30	30	30
	PF	Preparation of Millet based Recipe	1	Off				-	20	20	21
	Pf	Effect of parthenium on human and animals	1	Off				12	15	27	27
	Pf	Training programme on Parthenium eradication	1	On		29	29	12	18	30	30
	Ef	Production Technology Cole crops	1	Off				-	-	-	29
	PF	Millets Recipe Competition	1	On	8	-	8	7	29	36	36
	PF	Soil Testing and Soil Health card	1	Off	1	-	1	12	11	23	23
	RY	Contingency Crop Planning	5	Off		8	8	27	-	27	28
	Pf	Preparation of Ragi based product	1	On				-	21	21	29
	PF	Cultivation practices of cole crops	1	On		32	32	26	-	26	26
	Pf	Training programme on nutrients management	1	Off				2	42	44	76
	EF	Importance of Bajra`	1	Off	16	26	42	-	17	17	17
	PF	Scientific cultivation of Rabi season Vegetables	1	Off	4	-	4	16	26	42	84
	PF	Commercial Flower cultivation techniques	2	Off				10	13	23	27
	PF	Two days Farmers training under watershed development Programme in crop & Vegetables	2	Off				63	137	200	200
	PF	Two days Farmers training under watershed development Programme in crop & Vegetables	2	Off	54	93	147	41	109	150	150
	PF	Two days Farmers training under watershed development Programme in crop & Vegetables	2	Off	9	121	130	3	-	3	150
	PF	Two days Farmers training under watershed development Programme in crop & Vegetables	2	Off	28	58	86	8	12	20	150
	PF	Two days Farmers training under watershed development Programme in crop & Vegetables	2	Off				23	41	64	150
	PF	Two days Farmers training under watershed development Programme in crop & Vegetables	2	Off	28	63	91	14	86	100	100

		Vegetables									
	PF	Two days Farmers training under watershed development Programme in crop & Vegetables	2	Off				4	5	9	100
	PF	Two days Farmers training under watershed development Programme in crop & Vegetables	2	Off				78	72	150	150
	PF	Two days Farmers training under watershed development Programme in crop & Vegetables	2	Off	14	89	103	22	128	150	150
	EF	Two days Farmers training under watershed development Programme in crop & Vegetables	1	On		20	20	16	31	47	150
	PF	New Areas for income generation for rural women	2	Off	12	16	28	-	19	19	39
	PF	Two days Farmers training under watershed development Programme in Rabi crop & Vegetables	2	Off				26	46	72	100
	PF	Two days Farmers training under watershed development Programme in Rabi crop & Vegetables	2	Off				34	66	100	100
	PF	Two days Farmers training under watershed development Programme in Rabi crop & Vegetables	2	Off				33	67	100	100
	PF	Two days Farmers training under watershed development Programme in Rabi crop & Vegetables	2	Off	43	107	150	27	73	100	100
	PF	Two days Farmers training under watershed development Programme in Rabi crop & Vegetables	2	Off	28	72	100	-	-	-	150
	PF	Two days Farmers training under watershed development Programme in Rabi crop & Vegetables	1	Off		21	21	-	-	-	100
	PF	Need of small millets in present scenario	2	Off		34	66	-	-	-	21
	PF	Two days Farmers training under watershed development Programme in Rabi crop & Vegetables	2	Off	22	78	100	-	-	-	100
	PF	Two days Farmers training under watershed development Programme in Rabi crop & Vegetables	2	Off				14	36	50	150
	PF	Two days Farmers training under watershed development Programme in Rabi crop & Vegetables	2	Off				43	57	100	100
	PF	Two days Farmers training under watershed development Programme in Rabi crop & Vegetables	1	Off	2	19	21	20	35	55	100
	PF	Two days Farmers training	2	Off				26	53	79	100

		under watershed development Programme in crop									
	Pf	Two days Farmers training under watershed development Programme in crop & Vegetables	1	On	6	34	40	15	85	100	100
	Pf	Commercial cultivation of Rabi season vegetables	1	On	2	20	22	-	9	9	49
	PF	Scientific cultivation of Linseed	1	On				-	-	-	22
	Pf	Training on crop and Vegetable Production	1	On				30	-	30	60
	Pf	Training on Adivashi Gourav Divas	1	Off				-	-	-	53
	Pf	Commercial vegetable Production	1	On	3	-	3	-	-	-	32
	PF	Scientific cultivation of Mustard	1	On	22	22	44	-	-	-	53
	PF	Scientific cultivation of Mustard	1	On		4	4	18	8	26	29
	EF	Training on Adivashi Gourav Divas	15	On	5	-	5	-	-	-	44
	Pf	Scientific cultivation of Lentil	1	Off				16	12	28	32
	Pf	Training on crop and Vegetable Production	1	On				-	24	24	30
	Pf	Integrated Nutrients management	1	Off	7	-	7	40	0	40	45
	Pf	Care and management of rabi season vegetables	1	On				0	26	26	26
	PF	Soil sampling and soil Health card	3	On				23	10	33	33
	Pf	Training on crop and Vegetable Production	1	Off				-	60	60	60
	PF	Fertigation of cole crops	1	On					22	22	29
	PF	Training on natural farming	1	On				-	-	-	60
	PF	Commercial vegetable production	1	On				11	8	19	23
	Pf	Training on natural farming	1	Off				-	60	60	60
	PF	Scientific cultivation of summer moong	1	On				-	-	-	36
	PF	Training on natural farming	3	Off				-	80	80	80
	PF	Training on natural farming	3	On				-	-	-	80
	PF	Training on crop and Vegetable Production	3	Off				-	54	54	60
	PF	Training on natural farming	3	On							80
	RY	Training on crop and Vegetable Production	4	On				-	60	60	60
	PF	Cultivation of vegetables	3	On				30	-	30	60
	PF	Training on crop and vegetable Production	3	On				-	43	43	60
	Pf	Training on crop and vegetable Production	3	On				-	47	47	64
	PF	Training on Natural Farming	3	On				26	137	163	163
	PF	Training on Natural Farming	3	On					-	-	60
	PF	Training on crop and vegetable Production	1	On				15	15	30	60



H) Vocational training programmes for Rural Youth

Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self-employed after training			Number of persons employed elsewhere
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
	Gardening	Mali training	25	8	0	8	Nursery	1	2	2

*Training title should specify the major technology /skill transferred

I) Sponsored Training Programmes

Sl.	Title	Thematic area	Month	Duration (days)	Client PF/RY/EF	No. of courses	No. of Participants										Sponsoring Agency
							Male			Female			Total				
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
	Integrated Nutrients management	Nutrients managements	Dec. 2023	15	EF	60	40	1	4	0	0	0	40	1	4	45	DCO Bokaro
	under watershed development Programme in crop & Vegetables	Water managements	Octo - Nov	2	PF	2	510	103	191	1139	309	519	1649	412	710	2750	DDC Bokaro
	Training on crop and vegetable production	Crop & vegetable production	Jan-March	3	PF	13	45	14	-	249	50	36	294	64	36	394	ATM A Bokaro



Fisheries Nutrition																			
Fisheries Management																			
Other																			
Total																			
Home Science																			
Household nutritional security																			
Economic empowerment of women																			
Drudgery reduction of women																			
Other																			
Total																			
Agricultural Extension																			
Capacity Building and Group Dynamics																			
Other																			
Total																			
Grant Total																			

J. Information on ASCI Skill Development Training Programme funded by ICAR undertaken during 2023-24

Total no of training organised	Name of QP/Job role	Title of the training	Duration (in hrs.)	No. of participants										Fund utilized for the training (Rs.)					
				SC		ST		Other		Total									
				M	F	M	F	M	F	M	F	T							

K. Information on Skill Development Training Programme (other agency if any) if undertaken

Total no of training organised	Name of QP/Job role	Title of the training	Duration (in hrs.)	No. of participants										Fund utilized for the training (Rs.)					
				SC		ST		Other		Total									
				M	F	M	F	M	F	M	F	T							

3.5. A. ACHIEVEMENTS OF EXTENSION/OUTREACH ACTIVITIES

(Including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers					Extension Officials					Total							
		M	F	Total	SC (no.)	ST (no.)	M	F	Total	SC (no.)	ST (no.)	M	F	Total	SC (no.)	ST (no.)			
Kisan Mela organized																			
Kisan Mela participated	6	2240	1824	4066	659	825	7	5	12	2	2	2247	1829	4076	6610	827			
Field Day	26	800	138	925	221	123	12	6	18	3	1	812	144	956	224	124			



B. Other Extension/content mobilization activities

Nature of Extension Activity	No. of activities
Newspaper coverage	26
Radio talks	0
TV talks	7
Popular articles	0
Extension Literature	7
Electronic media	0
Animal health camp	0

C. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology

D. Celebration of important days in KVKs

Celebration of Important Days	No. of activities	Farmers			Extension Officials			Total		
		M	F	Total	M	F	Total	M	F	Total
Republic day (26 th Jan.)	1	70	8	78	25	8	33	95	16	111
International Women's Day (8 th Mar.)	1	-	52	52	-	-	-	-	52	52
AmbedkarJayanti (14 th Apr.)	1	26	-	26	5	-	5	31	-	31
International Yoga Day (21 st Jun.)	1	22	-	22	-	-	-	22	-	22
Independence Day (15 th Aug.)	1	130	-	130	33	7	40	163	7	170
Parthenium Awareness Week	2	19	23	42	5	2	7	24	25	49
Hindi Diwas (14 th Sep.)	1	14	-	14	2	-	2	16	-	16
Gandhi Jayanti (2 nd Oct.)	1	26	-	26	-	-	-	26	-	26
MahilaKisanDiwas (15 th Oct.)	1	58	-	58	-	5	5	58	5	63
World Food Day (16 th Oct.)	1	32	-	32	2	-	2	34	-	34
Vigilance Awareness Week	2	18	11	29	3	-	3	21	11	33
National Unity Day (31 st Oct.)	1	19	-	19	-	-	-	19	-	19
World Science Day (10 th Nov.)	1	12	4	16	3	3	6	15	7	22
National Education Day (11 th Nov.)	1	16	-	16	4	3	7	20	3	23
National Constitution Day (26 th Nov.)	1	17	-	17	3	-	3	20	-	20
World Soil Day (5 th Dec.)	1	55	-	55	3	-	3	58	-	58
Kisan Diwas (23 rd Dec.)	1	98	8	106	4	4	8	102	12	114



E. Interaction/Live telecast programme of Hon'ble PM/Hon'ble or Argil Minister

Sl.	Date of event	Name of Event/Programme	Interaction of Hon'ble PM/AM	Participants			
				Farmers	Staffs	VIP/Others	Total
	18.03.2023	International Year of Millets	Interaction of Hon'ble PM	125	6	0	131
	30.04.2023	PM Mann ki baat	Interaction of Hon'ble PM	45	7	0	52
	23.05.2023	Production Technology of Millet Farming		25	4		29
	30.05.2023	Rainwater Harvesting Technique		22	8		30
	16.07.2023 to 18.07.2023	95th ICAR foundation Day, Ag Exhibition & Farmers Field Visit	Interaction of Hon'ble AM	76	7	-	83
	27.07.2023	PM Kisan Samman Sammelan	Interaction of Hon'ble PM	185	8	9	202
	30.09.2023	Sankalp Week	Interaction of Hon'ble PM	68	5	0	73
	15.11.2023	PM Kisan Samman Sammelan 15 Installments	Interaction of Hon'ble PM	88	7	0	95
	09.12.2023	Vikshit Bharat Sankalp yatra	Interaction of Hon'ble PM	342	7	0	349
	16.12.2023	PM Programme	Interaction of Hon'ble PM	446	6	0	454





3.5 a. Production and supply of Technological products

A. Seed production at seed village

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farmers to whom seed provided			
					SC	ST	Other	Total
Paddy	IR64DRT							
	Rajendra mansuri							
Finger Millet	A404		18180					
Mustard	BBM1							
Total								

B. Seed production at KVK farm

Type of seed produced		Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
					SC	ST	Other	Total
Cereals	Paddy	Rajendra Mansoori	48.92	225032				
		IR 64 DRT1						
	Finger millet	A404	4.04	18180				
Oil seed- Mustard								
Pulses								
Green Manure								
Commercial crop								
Vegetables								
Fodder								
Spices								
Fruits								
Forest crop								
Ornamental/flower								
Medicinal								
Grand Total								

--	--	--	--	--	--	--	--

E. Fodder crops saplings

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total

F. Production of Bio-Products

Name of product	Quantity (Kg)	Value (Rs.)	No. of Farmers benefitted			
			SC	ST	Other	Total
Bio-fertilizers						
Bio-food (Spirulina etc)						
Bio-pesticide						
Bio-agents (Trichocard etc)						
Worms (earthworm, silk worms etc)						
Bio-fungicide						
Others, please specify (Mushroom spawn, Culture Mineral Mixture, Coir pith compost, Cow dung, Cow urine						
Total						

G. Production of livestock & fisheries materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted			
				SC	ST	Other	Total
Dairy animals							
Cows							
Buffaloes							
Calves							
Others (Pl. specify)							
Small ruminants							
Sheep							
Goat							
Other, please specify							
Poultry							
Broilers							
Layers							
Duals (broiler and layer)							
Japanese Quail							
Turkey							
Emu							
Ducks							
Others (Pl. specify)							
Piggery							

Piglet							
Hog							
Others (Pl. specify)							
Rabbitry							
Fisheries							
Indian carp							
Exotic carp							
Mixed carp							
Fish fingerlings							
Spawn							
Others (Pl. specify)							
Grand Total							

H. SOIL & WATER TESTING

a. Details of equipment available in Soil and Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.

b. Details of samples analyzed so far

Total number of soil samples analyzed till now		
Through mini soil testing kit/labs	Through soil testing laboratory	Total
1570	0	1570

c. Detail of Soil, Water and Plant analysis at KVK (2023)

Sl.	Analysis	No. of Samples analyzed	No. of Villages covered	No. of Farmers benefitted	Amount realized (Rs.)
1.	Soil	1570	88	1570	
2.	Water				
3.	Plant				
4.	Fertilizers				
5.	Manures				
6.	Food				
7.	Others (if any)				

d. Details of World Soil Day Celebration

Sl. No.	No. of Activity conducted	Soil Health Cards distributed	No. of farmers benefitted	No. of VIPs Number of	Name (s) of VIP(s) involved if any	Total No. of Participants attended the program
	1	25	25	0	0	55



I. Activities under Rain Water Harvesting structure and micro irrigation system

S.No	No of training programme conducted	No. of demonstrations	No. of plant material produced	Visit by the farmers (No.)	Visit by the officials (No.)

3.5. b. Seed Hub Programme - “Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India”

Name of Seed Hub Centre:

Name of Nodal Officer :	Uday Kumar Singh
Address :	KrishiVigyan Kendra, Bokaro
e-mail :	kvk_bokaro@yahoo.co.in
Phone No. :	06549-265048 (O)
Mobile :	9431176741 (M) 7992322648 (M)

1. Quality Seed Production of Pulses

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2023	Pigeon Pea	IPA 203				
	Black Gram	WBU 109				
Rabi 2023	Lentil	IPL 221				
Summer/Spring 2023						

2. Financial Progress

Fund received (2016-17, 2017-18, 2019, 2020 and 2021)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2016-17				
2017-18				
2018-19				
2019				
2020				
2021				
2022				
2023				

3. Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	
Nursery	
Animal sector	
Mushroom / other enterprises	
Others	

3.6 PUBLICATIONS, HUMAN RESOURCES DEVELOPMENT & AWARDS & RECOGNITION

A. Details of Research papers published by KVK (with full title, author & journal)

S.No	Item	Details of publication bibliographic form	NASS Rating
1	Research paper	<p>“The co-relationship between iron and zinc and their importance as micronutrients in the agricultural land of Baliapur region, Dhanbad, Jharkhand” by Sonam Bharti and Adarsh Kumar Srivastava</p> <p>International Journal of Statistics and Applied Mathematics 2023; SP-8(6): 1429-1431</p>	4.49

B. Details of Other Publications

Particulars	Details of publication bibliographic form	No of copies published (if any)	No of copies distributed (if any)
Seminar/conference/symposia papers			
Books			
Book Chapter	<p><i>Adarsh Kumar Srivastava</i> <i>Chanchala Verma</i> “Overcoming Malnutrition Through Increasing Pulse</p>	100	50

	Production Among Children in Jharkhand “ Page No 01-19		
Popular articles			
success story			
Bulletins			
Agro-advisory bulletins			
Extension Folders			
Technical reports	Annual Report Annual Action Plan SAC Report CFLD Report Zonal Workshop Report	10	
News letter			
Electronic Publication (CD/DVD etc)			
TOTAL			

C. Details of HRD programmes undergone by KVK personnel

Sl. No.	Name of KVK personnel and designation	Name of course/training program attended	Date and Duration	Organizer/Venue
1.	Dr Adarsh Kumar Srivastava Scientist (Agril. Extension)	Convergence of Institution, Intervention and Technology for Doubling Farmers Income”	01.- 03.03.2023	DEE, BAU Ranchi
2	Dr Rupa Rani Programme Assistant	Convergence of Institution, Intervention and Technology for Doubling Farmers Income”	01.- 03.03.2023	DEE, BAU Ranchi
3.	Dr Adarsh Kumar Srivastava Scientist (Agril. Extension)	Training cum Workshop on Oilseeds, Pulses & Millets”	27- 28.03.2023	BAU, Ranchi
4.	Dr Adarsh Kumar Srivastava Scientist (Agril. Extension)	International Conference on Decarbonizing Agriculture ICDA-2023,	25- 27.11.2023	TMA International Convention Hall Manglore Karnataka Bharat
5.	Dr Adarsh Kumar Srivastava Scientist (Agril. Extension)	Training on Extension Methodologies and Motivational Skill for Extension Personals”	08.01.2024 to 12.01.2024 at	Directorate of Extension Education BAU Ranchi

D. Details of attachment training (RAWE/ FET for ARS/Others) through KVK

Type of attachment	No of student trained	No of days stayed
RAWE Programme		

E. Awards/Recognition**Institutional Award received by KVK**

Sl. No.	Name of the Award	Conferring Authority	Amount	Purpose

Award received by KVK Scientists

Sl.	Name of the Award	Name of the Scientist	Value in Amount/	Purpose	Conferring Authority
	Outstanding Achievement Award	Dr Adarsh Kumar Srivastava	----		International Conference on Decarbonizing Agriculture ICDA-2023

Award received by Farmers

Sl.	Name of the Award	Name of the Farmer	Address	Contact No.	Aadhar No.	Amount	Purpose	Conferring Authority

3.7. TECHNOLOGY DEVELOPMENT**A. Give details of Innovative Methodology/Process/Product or Innovative Technology developed by KVK**

Sl. No.	Name/ Title of the technology	Brief details of the Innovative Technology	Impact of the technology	Status of commercialization/Patent

B. Give details of Organic farming practiced/Indigenous Technology/ITK practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

Sl. No.	Enterprise	Brief details of the ITK Practiced	Purpose/Impact of ITK	Impact of the technology

Give details of by the farmer (if Any)

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)

C. Indicate the Specific Training Need Analysis Tools/Methodology followed by KVKs

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed

4. IMPACT

4.1 Impact of KVK activities till now (Not to be restricted for reporting period).

Name of specific technology/skill transferred/training	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
System of rice intensification	2356	31		
System of wheat intensification	285	22		
Seed treatment	729	28		
Seed production	287	35		
Commercial flower production	25	9		
Mushroom production	759	21		
Vermi-culture and composting	523	24		
Soil Sampling	401	44		
Safe use of Plant protection measure	277	18		
Vegetable nursery raising	398	23		

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants

4.2. Cases of large-scale adoption (Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread

Give information in the same format as in case studies

4.3. Details of impact analysis of KVK activities carried out during the reporting period

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms

4.4. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	
Name & complete address of the entrepreneur	
Role of KVK with quantitative data support:	
Timeline of the entrepreneurship development	
Technical Components of the Enterprise	
Status of entrepreneur before and after the enterprise	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	
Horizontal spread of enterprise	

4.5. Success stories/Case studies, if any (two- or three-pages write-up on 1-2 best case(s) with suitable action photographs)

Name of farmer	
Address & Contact details (Phone, mobile, email Id)	
Assets (Landholding (in ha.)/Livestock)	
Name and description of the farm/ enterprise	
Achievement of the farmers	
KVK intervention (planning & Implementation)	
Impact (Economic/ Social/Environmental)	
Outcome (Horizontal/ Vertical spread)	

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

S.No	Name of organization	Nature of linkage
1	DRDA, Bokaro	Infrastructure & sponsored training programme.
2	District Agriculture Office, Bokaro	Participation in training, FLD, Joint survey.
3	District Animal Husbandry Office Bokaro	Joint training programme & participation in meeting.
4	District Fisheries Office, Bokaro	Joint training programme & participation in meeting.
5	District Horticulture Office, Bokaro	Joint training programme & participation in meeting.
6	District Plant Protection Office Bokaro	Joint diagnostic survey & participation in meeting.
7	District Forest Office, Bokaro	Participation in meeting.
8	Agricultural produce market committee (Bazaar Samiti), Bokaro	Joint training programme, participation in meeting & joint Krishak Gosthi.
9	Lead Bank Manager office, Bokaro	Financial support from banks to trained persons for entrepreneur development.
10	Zonal Office, Bank of India Bokaro	Financial support from banks to trained persons for entrepreneur development.
11	NABARD Bokaro	Formation of SHG, Kisan Club & Training.
12	Tata Steel Rural Development Society, Bokaro	Joint training programme & participation in meeting.
13	NGO Samarpan	Joint training programme.
14	Krishi Bikash Shilpa Kendra, Birbhum(W.B)	Joint training programme.

5.2. Details of Externally funded project & Programmes during 2023 (Eg. ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies) (information of previous years should not be provided)

a) Programmes for infrastructure development

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
DMFT Fund of Administration Bokaro	Repairing of Administrative building, Boundary wall of KVK , Pond Rejuvenation	December 2023	District Administration Bokaro	97,00,000

(b) Programme for other activities (training, FLD, OFT, Mela, Exhibition etc.)

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
WCDC Bokaro	Training	October 2023	JJY, Bokaro	11,00,000.00
Computerization of PACS	Training	October,2023	DCO, Bokaro	6,15,000.00
District Level Training	Training	December 2023	ATMA Bokaro	4,68,000.00
Extension Reforms Scheme	Farmers-Scientist Interaction Programme	December 2023 to March 2024	ATMA Bokaro	80,000.00

6. PERFORMANCE INDICATORS

6.1. Performance of demonstration units (other than instructional farm)

Sl. No.	Name of demo Unit	Year of estt.	Area(Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety /breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Vermicom post unit	2019	4.0		Vermi compost				
2.	Azolla	2019	4.0			--		----	
3.	Mother Plant Nursery	2007	10000		Fruits			50907	
4.									
5.									
6.									
7.									
	Total								

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Paddy	12.08.2023	24.11.2023	1.0	IR64 DRT	F/S	23.22			
Paddy	16.08.2023	28.11.2023	0.75	R Masoori	F/S	28.70			

Mandua	25.07.2023	30.10.2023	1.0	A404	F/S	4.04			
Mustard	02.11.2023	standing	1.0	BBM1	F/S				

6.3. Performance of Production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.					

6.4. Performance of Instructional Farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.							
2.							
3.							

6.5. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
	IMD	Working

6.6. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
March 2023	8	25	
October 2023	45	15	
Total:			

(For whole of the year)

6.7 Utilization of staff quarters

- Whether staff quarters have been completed:
- No. of staff quarters:
- Date of completion:
- Occupancy details:

Months	Q I	Q II	Q III	Q IV	Q V	Q VI
NIL						
NIL						
NIL						
NIL						

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Main Account	State Bank of India	Petarwar Bokaro	11472450621
Revolving	State Bank of India	Petarwar Bokaro	11472450632

CFLD Pulse	State Bank of India	Petarwar Bokaro	42317474040
CFLD Oilseeds	State Bank of India	Petarwar Bokaro	42317561488
Natural farming	State Bank of India	Petarwar Bokaro	42148475157
Seed Hub	State Bank of India	Petarwar Bokaro	36065817352

7.2. Utilization of funds under CFLD on Oilseed (*Rs. In Lakhs*)

Item	Released by ICAR		Expenditure		Unspent balance as on -
	Kharif	Rabi	Kharif	Rabi	
Sesame	50000		50000		Nil
Niger	100000	-	100000		Nil
Mustard		360000		360000	Nil
Linseed	-	100000		100000	Nil

7.3. Utilization of funds under CFLD on Pulses (*Rs. In Lakhs*)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2022
	Kharif	Rabi	Kharif	Rabi	
Pigeon pea	360000		360000		Nil
Black Gram	270000		270000		Nil
Lentil		180000		180000	Nil

7.4. Utilization of KVK funds during the year 2023 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	15218800	1,21,75,000	1,24,84,411
2	Traveling allowances	40000		
3	Contingencies			
A				
B		1010000	5,30,000	6,08,554.00
C				
D				
E				
F				
G				
H				
I				
J	Swachhta Expenditure			
TOTAL (A)				
B. Non-Recurring Contingencies				
1				
2				
3				
4				
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

7.5. Status of Revolving fund (Rs. in lakh) for last three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2021	849094.00	290040	780816	358318
2022	358318	447501	1066720	(-)243589
2023	1216577	1930437	1639132	1507882

- 7.6. (i) Number of SHGs formed by KVKs
(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities
(iii) Details of marketing channels created for the SHGs

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activities	Season	With line department	With ATMA	With both
Field Days	10	Kharif & Rabi	Agriculture		both
Farmers Scientist Interaction	2	Kharif & Rabi	Agriculture	ATMA	both
Krishak Gosti	13	Kharif & Rabi	Agriculture		both
Workshop	2	Kharif & Rabi	Agriculture		both
Kisan mela		Rabi	Agriculture		both
Awareness programme	12	Kharif & Rabi	Agriculture		both
Combined visit under FLD programme	16	Kharif & Rabi	Agriculture		both
Training	3		Agriculture		both

7.8 Revenue generation

Sl.No.	Name of Head	Income (Rs.)	Sponsoring agency
1.	lodging charge	12000.00	IINRG (
2.	Mustard	20400.00	Mustard
3.	Paddy Seed	36900.00	Paddy Seed
4	Ragi Seed	4800.00	Ragi Seed
5	Soil Testing (PRADAN)	7500.00	Soil Testing (PRADAN)
6	SARDA	17500.00	SARDA
7	Lodging charge	8000.00	ICAR (NF)
8	Institutional	70000.00	PMKSY (WS)
9	Paddy straw	7000.00	Paddy straw
10	KVK Pond Fish	5000.00	Umesh Kr. Nayak ()
11	Institutional charge	4000.00	JREDA, Ranchi
12	Vegetable Sale	4760.00	Vegetable (KVK Farm)
13	Mango fruit Sale	50907.00	Mango fruit (KVK Farm)
14	Institutional charge	3500.00	NSC, Ranchi
15	lodging & Institutional)	20000.00	Mali Training (
16	Institutional Charge	25000.00	Watershed ()

Sl.No.	Name of Head	Income (Rs.)	Sponsoring agency
17	Paddy Seed	272800	Paddy seed 62 qt booked under TSP & SCSP
18	Seed sale	39,600	Paddy Seed
19	Seed Sale	37000	Paddy seed
20	Institutional Charge	67500	PACS Training
21	Hall Charge/Hostel	67500	PACS Training
22	Institutional	275000	JJY Training
23	Mango Plants	8000	
24	Natural farming BRC	60000	
	Total	11,24,667.00	

7.9 Resource Generation

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
	DMFT Fund	Infrastructure Development	District Administration	97,00,000	Boundary wall construction of KVK, Rejuvenations of Administrative building, Rejuvenations of Fish ponds

8. MISCELLANEOUS INFORMATION

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)

8.2. Prevalent diseases in Livestock/Fishery

Name of the disease	Species affected	Date of outbreak	Number of death/ Morbidity rate (%)	Number of animals vaccinated	Preventive measures taken in pond (in ha)

8.3. Nehru Yuva Kendra (NYK) Training

Title of the training programme	Period		No. of the participant		Amount of Fund Received (Rs)
	From	To	Male	Female	

8.4. PPV & FR Sensitization training Programme

Date of vaccination programme	Resource Person	No. of participants	Registration (crop wise)	
			Name of crop	No. of registration

No. of Events added by KVK	No. of Facilities added by KVK	No. of filled Report on Package of Practices				No. of filled Profile Report									95
		Crop	Horticulture	Livestock	Fisheries	Employees	Posts	Finance	Soil Health Cards	Appliances	Crops	Resources	Fish		

8.5. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	
2.	No. of farmers registered in the portal	
3.	Mobile Apps developed by KVK	
4.	Name of the App	
5.	Language of the App	
6.	Meant for crop/ livestock/ fishery/ others	
7.	No. of times downloaded	

8.6 Details of KVK Portal

No. of Events added by KVK	No. of Facilities added by KVK	No. of filled Report on Package of Practices				No. of filled Profile Report								
		Crop	Horticulture	Livestock	Fisheries	Employees	Posts	Finance	Soil Health Cards	Appliances	Crops	Resources	Fish	

8.7 Kisan Mobile Advisory Services/KMAS (m-Kisan Portal/National Farmers Portal/ SMS Portal)

Sl. No.	Discipline	No. of Advisories	No. of Messages (text+ videos)	Total messages	No. of Farmers
1.	Crop				
2.	Livestock				
3.	Weather				
4.	Marketing				
5.	Awareness				
6.	Enterprises				
7.	Others				
8.	Total				

8.5 Kisan Sarathi

Name of KVK	No. of Farmers Registered on Portal
KVK Bokaro	25500

8.6. a. Observation of Swachhta hi Sewa (2nd -31st Oct 2023)

Date/ Duration of Observation	Total No of Activities undertaken	No. of Participants			
		Staffs	Farmers	Others	Total
22	8	8	250	10	268

b. Observation of Swachta Pakhwada (15 Dec -31st Dec 2023)

Date/ Duration of Observation	Total No of Activities undertaken	No. of Participants			
		Staffs	Farmers	Others	Total
	Digitization of office records/ e-office	4	5	0	9
	Basic maintenance	8	12	2	22
	Sanitation and SBM	5	24	5	34
	Cleaning and beautification of surrounding areas	6	0	4	10
	Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	4	56	8	68
	Used water for agriculture/ horticulture application	2	22	18	42
	Swachhta Awareness at local level	3	32	54	91
	Swachhta Workshops	5	35	11	51
	Swachhta Pledge	8	14	3	25
	Display and Banner	2	8	0	10
	Foster healthy competition	2	32	4	38
	Involvement of print and electronic media	2	45	16	63
	Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	5	41	24	70
	No. of Staff members involved in the activities	8	0	0	8
	No of VIP/VVIPs involved in the activities	0	0	0	0

c. Details of quarterly budget expenditure on Swachh activities including SAP

S.No	Activities	No of village covered	Total Expenditure (Rs.in Lakhs)
1.	Vermicomposting	4	7000.00
2.	Other than vermicomposting activities under Swachata	6	5000.00

8.7. Details of 'Pre-Rabi Campaign' Programme

Date of programme	No. of Union Ministers attended the programme	No. of Hon'ble MPs (Lok Sabha/ Rajyasabha) participated	No. of State Govt. Ministers	Participants (No.)						Coverage by Door Darshan (Yes/No)	Coverage by other channels (Number)
				MLAs Attended the programme	Chairman Zila Panchayat	Distt. Collector/DM	Bank Officials	Farmers	Govt. Officials, PRI members etc.		

8.8 . Viksit Viksit Bharat Sanklap Yatra (LLB and ULB)

Sl.	No of events attended	No. of Gram Panchayat covered	Total no of farmer participated	No of Lecture Delivered on Soil Health/ Natural Farming
	52	248	33959	248





8.9. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Jharkhand	Bokaro	Crop production	6	388	Paddy cultivation through plastic drum seeder. 2. Bunding for water retention. 3. Use of cono weeder for weeding. 4. Ridge Furrow method should be followed for proper germination 5. Conservation of soil moisture. 6 Mechanical weeding 7. Staking for tomato and Dolichos Bean

9. Information on Visit of Ministers to KVKs, if any

Date of Visit	Name of Hon'ble Minister	Name of Ministry	Salient points in his/ her observation (2-3 bulleted points)

10. List of other visitors (MP/MLA/DM/VC/Zila Parishad/Other Head of Organization/Foreigners)

Date	Name of the person	Purpose of visit
24.04.2023	Dr. Lambodar Mahto MLA	Inauguration of Training Programme
17.09.2023	Dr. Lambodar Mahto MLA	Inauguration of boundary wall
17.12.2023	Dr J Oraon DEE BAU Ranchi	Review of KVK Activities
19.12.2023	Smt Kirtishree DDC Bokaro	Inspection of KVK Work and construction of Boundary wall



11. PROJECT-WISE REPORTING (Applicable for KVKs identified under the given project)

11.1. Details of Cereal Systems Initiative for South Asia (CSISA)

- Year:
- Introduction / General Information:

Trial Name	Area covered	Variety name	Duration	Method of planting	Sowing	Grain Yield	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	BCR
Kharif										
Rabi										

11.2 Details of Tribal Sub Plan (TSP)

a. Achievements of physical output under TSP

Sl.	Activities	Physical Achievement	
		No. of Trainings/Demos	No. of beneficiaries
1)	Trainings		
a.	Farmer	7	303
b.	Women		
c.	Rural Youths		
d.	Extension Personnel		
2)	OFT	No. of OFTs	No. of beneficiaries
3)	FLD	No. of FLDs	No. of beneficiaries
		303	303
4)	Mobile agro- advisory to farmers	No. of advisory	No. of beneficiaries
5)	Other activities		
a.	Participants in extension activities (No.)		
b.	Production of seed (q)		
c.	Production of Planting material (No. in lakh)		1000
d.	Production of Livestock strains (No. in lakh)		
e.	Production of fingerlings (No. in lakh)		
f.	Testing of Soil, water, plant, manures samples (Nos.)		22
g.	Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)		
h.	No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)		

Number of commodity-based organizations/ farmers' cooperative society/ FPO formed/ associated with during last one year (Details of the group/society may be indicated)

S.No	Name of the FPO	Registration No and Date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
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11.6. Nutri-Sensitive Agricultural Resources and Innovation (NARI)

a. Overall achievement

No. of Nutri smart village developed	Total Area covered	Total No of OFT organized	Total No. of FLD organized	No. of training/capacity development programme	Total No. of farmers/ beneficiaries	No of Extension programmes	Total No. of farmers/ beneficiaries
5	1.0 acre			10	420	10	420

b. Details of OFT/FLD

OFT			
Nutritional Garden			
Bio-fortified Crops			
Value addition (in no. of Unit or no. of Enterprise)			
Other Enterprises (in no. of Unit or no. of Enterprise)			
		Area (ha/ no. of Unit/Enterprise)	No. of farmers/ beneficiaries
FLD			
Nutritional Garden			
Bio-fortified Crops			
Value addition (in no. of Unit or no. of Enterprise)			
Other Enterprises (in no. of Unit or no. of Enterprise)			

c. Details of established Nutrition Garden in Nutri-Smart village

Sl.	Name of Nutri-Smart Village	Type of Nutrition Garden	Number	Area (sqm)	No. of beneficiaries
1.		Backyard/Kitchen Garden			
2.		Community level	5	1.2	420
3.		Terrace Garden			
4.		Vertical Garden			
TOTAL					

d. Details of Bio-fortified crops used in Nutri-Smart village

Name of Nutri-Smart Village	Season	Activity (OFT/FLD)	Category of crop (cereal/ pulses/oilseed/ fruits & veg./ others)	Name of Crop	Variety	Area (ha)	No. of beneficiaries

e. Details of Value addition in Nutri-Smart village

Name of Nutri Smart Village	Name of Crop/ veg./ fruits/ other	Name of Value-added product	Activity (OFT/FLD)	No. of farmers/ beneficiaries
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f. Training programmes in Nutri-Smart village

Name of Nutri Smart Village	Area of Training	No of courses	No. of beneficiaries
Koh, Katamkuli, Baradih, Raghunathpur ,Bunduzara	Balance Diet, food processing	10	420

g. Extension activities under NARI Project

Name of Nutri-Smart Village	Title of Activity	No. of activities	No. of beneficiaries
Koh, Katamkuli, Baradih, Raghunathpur ,Bunduzara	Balance Diet, food processing	10	420

h. Details of recipe contest (if applicable)

No of events organised	Name of location/village	No. of participants
1 25.08.2023	Uttasara, Petarwar	36
2 23.09.2023	Santhaldih Chas	42
3 01.11.2023	Khamhara Gomia	44

11.7 Attracting and Retaining Youth in Agriculture (ARYA)

Name of enterprises	No. of entrepreneurial units established	No. of Training programs organized	No. of rural youth trained		No. of youth established units		Total entrepreneurial units formed	Total entrepreneurial units Functional
			Male	Female	Male	Female		

11.8 Out-scaling of Natural Farming

a. Overall achievements

S.No	Name of Activity	No. of activities	No. of beneficiaries
1.	Awareness programme	12	1425
2.	Training programme	2	90
3.	Demonstrations	12	12

b. Details of Training programmes

S.No	Name of training programme	Date	Location/Venue	No. of beneficiaries
	Training	21-23.07.2023	KVK Petarwar	60
	Training	18.01.2024	KVK	30

c. Details of Awareness programmes

S.No	Name of Activity	Date	Location/Venue	No. of beneficiaries
1	Awareness	04.05.2023	Jena More	75
2	Awareness	4.07.2023	Kedla Kasmar	75
3	Awareness	14.07.2023	Hisim, Kasmar	75
4	Awareness	02.08.2023	Pachmo, Gomia	75
5	Awareness	11.08.2023	Jhumra, Gomia	75
6	Awareness	24.08.2023	Baritari, Gomia	225
7	Awareness	28.08.2023	Singhpur, Kasmar	75
8	Awareness	11.09.2023	Tangtona Kasmar	75
9	Awareness	13.09.2023	Kolbendi,	75
10	Awareness	15.09.2023	Mamarkuda	150
11	Awareness	15.01.2024	Durgapur, Kasmar	300
12	Awareness	19.01.2024	Chainpur Chas Jaichhanda Jaridih	150

e. Details of Demonstrations

S.No	Name of Crop	Location of Demo.	Mobile No	Area of Demo.
1	Paddy, Tomato, Brinjal Bhindi Ole, Cucurbites	Soni Devi Aarajua Petarwar BRC	9693820105	1.0
2	Paddy Tomato, Brinjal Bhindi Ole, Cucurbites	Jyoti Baske Aarajua Petarwar	8809163422	1.0
3	Paddy, Tomato, Brinjal Bhindi Ole, Cucurbites	Sukh Deo Manjhi Mayapur Petarwar	9661281494	1.0
4	Paddy, Tomato, Brinjal Bhindi Ole, Cucurbites	Sheela Devi Angwali Petarwar	8969839278	1.0
5	Paddy, Tomato, Brinjal Bhindi Ole, Cucurbites	Hira lal Hansda Chatugadda Mayapur	9661870092	1.0
6	Paddy, Tomato, Brinjal Bhindi Ole, Cucurbites	Bandhan Manjhi Chatugadda Mayapur	7319676180	1.0
7	Paddy, Tomato, Brinjal Bhindi Ole, Cucurbites	Bharti Devi, Gaga, Aarajua Petarwar	9631177040	1.0
8	Paddy, Tomato, Brinjal Bhindi Ole, Cucurbites	Pramila Devi Gaga Aarajua Petawrar	9835441434	1.0
9	Paddy, Tomato, Brinjal Bhindi Ole, Cucurbites	Lokesh tuddu Chatugadda Mayapur	9955138203	1.0
10	Paddy Tomato, Brinjal Bhindi Ole, Cucurbites	Shanti Devi Gaga Aarajua Petarwar	6200349751	1.0
11	Paddy, Mandua, Maize, Tomato, Brinjal Bhindi Ole	Shankar Soren Tand Balidih	9939189072	1.0
12	Paddy Tomato, Brinjal Bhindi Ole	Rameshwar Tuddu Tand Balidih	7004522368	1.0



11.13 Report on Digital Farming Initiatives in Agriculture/ Digital Ag. Extension Service

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I					
II					
Total					

11.14 Any other programme organized by KVK, not covered above

Sl. No.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants

12 Good quality action photographs with caption in JPEG FORMAT SEPARATELY of overall achievements of KVK during the year (best 10)









Latitude: 23.629095
 Longitude: 85.855003
 Elevation: 425.54±14 m
 Accuracy: 387.5 m
 Time: 05-10-2023 11:57
 Note: Tentative Training programme
 Sadmakala, Petarwar

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