



Annual Action Plan



Krishi Vigyan Kendra, Saraikela-Kharsawan

(estd : 2010)

**Directorate of Extension Education
Birsa Agricultural University, Ranchi
ATARI Zone-IV Patna, Bihar**

Brief information about the district

Name of Agro Climatic Zone	VII
Longitude	85°30'14" - 86°15'24"E
Latitude	22°29'26" - 23° 09'34"N
Temperature Maximum	42.9
Temperature Minimum	8°C
Geographical (ha)	299600.34
Total cultivable area (ha)	94803.15
Total Net sown area (ha)	92112.56
Area sown more than once (ha)	6.31
Kharif sown area (ha)	903472
Rabi sown area (ha)	34523
Summer sown area (ha)	1455
Gross cropped area (ha)	81,301
Cropping intensity (%)	109
Annual Rainfall (mm)	1275 mm
Rainy days	94
Total irrigated area (ha)	5728
Total rainfed area (ha)	89500
Irrigation per cent	11%
Soil type	Loam, sandy loam, and clayey loam
Upland (ha) & % of total cultivable area	92416 (62.34 %)
Midland (ha) & % of total cultivable area	35214 (23.45 %)

Lowland (ha) & % of total cultivable area	18416 (14.21%)
Soil organic carbon status of the district	(Low/Medium/High)-Low and Medium 60.4%
Nutrient status of soil of the district	N (Low/Medium/High) Medium 80.2%
	P (Low/Medium/High)-Low 94.9%
	K (Low/Medium/High)-Medium 64.8%
Micronutrient status of soil of the district	(Low/Medium/High)-Low Boron-55% Sulpher-40.9%
Fertilizer consumption (Kg/ha)	193 kg/ha
Total Population	1065056
Total SC population & (%) of total population	56195 (5.28%)
Total ST population & (%) of total population	3,74,642 (35.18%)
Male population	544411
Female population	520645
Literacy (%)	68.85%
No of Tehasil	02
No of blocks	09
No of Panchayat	132
No of villages	1148

Staff position

S. No.	Name of staff	Designation and discipline	Date of joining in present KVK
1.	Dr. Pankaj Seth	I/C Sr. Scientist & Head(Veterinary Science)	06 August, 2025
2.	Sri Gondra Mardi	Scientist (Plant Protection)	08 October, 2025
3.	Dr. Amresh Chandra Pandey	Scientist (Agril.Engg)	08 October,2025
4.	Mrs. Elishma Xaxa	Scientist (GPB)	10 October, 2025
5.	Sri. Lucky Oraon	Assistant	06 February, 2025
6.	Sri. Susheel purty	Peon	17 December, 2005
7.	Sri. Binod Tirkey	Peon	
8.	Kumari Seemran	Technical agent (Contractual)	

Farmer Category of the district

Name of Block	Geographical Area (ha)	Marginal Farmer (Nos.) Up to 1.0 ha	Small Farmers (Nos.) 1.0 – 2.0 ha	Semi-medium Farmers (Nos.) 2.0 – 4.0 ha	Medium Farmers (Nos.) 4.0 – 10.0 ha	Large Farmers (Nos.) 10.0 ha & Above	Total Farmers (Nos.)
Saraikela	36120.78	12954	3379	2991	1441	329	20994
Kharsawan	23463.53	9508	3847	1838	976	325	19794
Kuchai	38403.11	14989	5495	2232	1846	397	21959
Rajnager	53938.41	11686	4573	4915	2545	259	23978
Gamhariya	28129.27	8513	3824	1818	974	210	17839
Nimdih	29143.58	15187	10187	2248	1070	305	28797
Chandil	37369.67	9941	3717	1240	830	345	13873
Kukru	35289.00	6779	5842	1523	417	207	14250
Ichagarh	34976.44	10942	5670	4388	735	317	21852
Total no of farmers		93720	40692	21670	10417	2287	169086
% of Land holding		55.43	24.06	12.82	6.16	1.35	

Average land holding of the district (0.56 ha)

Source of information:DAO, Saraikela Kharsawan, 2025

Status of major field crops of the district

Season : Kharif			
Name of crop	Area (ha)	Production (MT)	Productivity (Q/ha)
Paddy	80406	2003457	24.70
Maize	2107	35034	25.6
Pigeonpea	9324	879200	16.25
Jowar	365	456.25	12.5
Ragi	1441	1800	12.5
Bajra	1298	1870.2	9.75
Groundnut	1635	1993	12.30
Season : Rabi			
Wheat	6630	16322	24.8
Mustard	24865	13675	6.8
Chickpea	14963	21432	11.50
Lentil	633	456	7.20
Sesame	565	746	7.15
Season: Summer			
Groundnut	478	948	11.85
Sesame	263	618	7.15
Moong	2349	16443	8.56

**Source of information: DAO, Saraikela-Kharsawan
(Source of Year: 2024)**

Status of major horticulture crops of the district

Vegetable crop			
Name of crop	Area (ha)	Production (MT)	Productivity (q/ha)
Okra	2200	31500	140
Chilli	1200	78000	80
Brinjal	1700	34400	180
Bottle guard	1180	182900	165
Elephant Foot Yam	632	34760	60
Cucumber	948	80580	95
Potato	2500	24700	96.95
Tomato	1700	35600	200
Cauliflower	1100	18300	160
Onion	1180	322730	210
Brinjal	1900	36600	220
Fruit crop			
Mango	2640	32832	123.45
Lemon	160	1600	95.65
Papaya	534	1255	11.80
Guava	1830	28138	122.74

Source of information: DHO, Saraikela-Kharsawan, 2025

Live stock status of the district

Name of livestock	Number
Total no. of Indigenous cattle	433000
Total no. of cross breed	120522
Total no. of Buffalo	196000
Total no. of Goat	364755
Total no. of Sheep	85299
Total no. of Pig	65111
Total no. of poultry	3457000
Total no. of commercial dairy unit	28
Total no. of commercial Goatery unit	16
Total no. of commercial poultry unit	48
Total no. of commercial pig units	18

Source of information: DAHO, Saraikela-Kharsawan
(Source of Year: 2024)

Details of Agro-Ecological situation

S. No	Name of Agro-Climatic Zone	Name of Agro-Ecological Situation	Agro-Ecological Situation features	Blocks covered
1.	VII	South Eastern Plateau Zone-VI	<ul style="list-style-type: none"> • Climate: Sub-humid to humid climate with lower rainfall compared to the Eastern Plateau & Hills - Eastern Plateau zone. • Terrain: A mix of hilly terrain and homogenous plains. • Land Use: In the northern plain areas, agriculture is prominent, with rice and wheat being major crops. Southern areas, particularly forested regions, have patches of agricultural land. • Crops: Common crops include rice, maize, wheat, and oilseeds. • Potential: The agro-climatic conditions favor the cultivation of fruits and vegetables. • Forests: Significant portion of the district is covered by forests, which play a vital role in the local economy. 	
2.		AES-I	Rainfed undulated, deciduous forest having sandy loam, Red laterite soil. Rice, Maize, Wheat, Vegetable, Pulse & Oilseed	Ichagarh, N imdih Kukru
3.		AES-II	Rainfed upper plateau, temperate forest areas having course texture red laterite. Rice Maize, Pulses, Vegetable	Kuchai, Kha rsawan
4.		AES-III	Rainfed undulated deciduous forest area having sandy loam laterite soil. Rice, Maize, Wheat	Gamharia, Chandil
5.		AES-IV	Rainfed undulated partial forest area having sandy loam laterite soil. Rice, Maize, Oilseed & Pulses	Rajnagar, Saraikela

MAJOR PROBLEMS IDENTIFIED

- Erratic rain fall
- Poor irrigation infrastructure
- Poor soil quality, acidic and soil erosion
- Pest and disease infestation
- High input cost
- Excessive dependence on the rice in all farming situation
- Dependency on subsidies
- Small and marginal farmers
- Low agriculture production
- Low production of dairy cattle, goat, pig and backyard poultry
- Poor resource farmers

MAJOR THRUST AREAS

- Popularization of Integrated Nutrient Management and IPM.
- Improvement of soil and water conservation practices for sustainable agricultural production.
- Replacement and improvement in crop productivity with new high yielding varieties
- Promotion of Oilseeds and Pulses
- Promotion and area expansion of Nutri cereals and millets
- Development of animal husbandry enterprises like dairy, piggery, goat and backyard poultry farming
- Fishery based Integrated Farming System
- Development of Hi-Tech Horticulture and Mushroom Cultivation.
- Development of fruits and vegetables nursery to obtain quality seeds/seedling
- Development of home science enterprises, processing and value addition to obtain extra income in lean period and practices for drudgery reduction.
- Promotion of Natural Farming.
- Promotion of fodder cultivation
- Formation of FIGs, Self-help groups, FPOs & village level organization for sustainable agricultural development
- Market linkage for SHGs, FPOs, and FIGs

Summary of the activities to be conducted during 2026-27

Activity	Target	
	Number of activity	No. of farmers to be covered
OFTs	08	80
FLDs – Oilseeds (activity in ha)	02	06
FLDs – Pulses (activity in ha)	02	06
FLDs – Other than Oilseed and Pulses crops (activity in ha)	03	14
FLDs – Other than Crops (activity in no. of unit/Enterprises)	03	40
Training – Farmers and farm women	43	2150
Training – Rural Youths	19	475
Training – Extension Functionaries	09	225
Extension activities	54	3600
Seed Production (Quintal)	160	70
No. of seedling/sampling Production	15000	50
Other Bio- products – Vermicompost (q)	50	15
Live stock products (Poultry chicks – nos.)	0	
(Fingerlings – nos.)	0	
No of Soil and Water Testing in Laboratory	800	800
No of advisory through Kishan Sarathi portal	08	3000
SAC Meeting (Date & no. of core/ official members)	01	23
Literature to be developed/ Published	05	2500
Convergence Programme / Sponsored Programme	02	150
KVK Progressive Farmers interaction	02	82
Outreach of KVK in the District (No. of blocks, no. of villages)	9 (18)	1500

Proposed OFT

2026-27

OFT No:1

**Goat population of district:364755,
District Av. yield: 13.68 kg/goat, State Av. yield: 17.25 kg/goat**

Enterprise	Goat Farming
Season	Kharif/Rabi/Summer 2026-27
Main problem	Unhealthy low birth weight and reduced survivability of kids
Main cause	Inadequate and low nutrient feeding management
Title of OFT	Assessment of concentrate ration feeding in pregnant does (Steaming Up)
Farming situation	Traditional goat rearing under rainfed production system
Thematic area	Livestock feeding management
Farmer practice	Free range grazing/browsing without any feed supplement
Technology option selected for assessment	To1: Farmers practice + Supplementation of 100 gm concentrate/day from 60 days before the expected day of kidding To2: Farmers practice + Supplementation of 150 gm concentrate/day from 60 days before the expected day of kidding
Source of technology	IVRI, Bareilly, 2023
No of trial	2 (10)
Detail of critical input	Concentrate feed
Cost of individual critical input	Rs. 500/-
Total cost of critical input	Rs. 5000/-
Performance indicator to be recorded	(i) Av. Birth weight (ii) Av. Body weight gain (iii) Mortality % (iv) B:C ratio

OFT No:2

Pig population of district:65111,

District Av. yield: 30.5 kg/pig, State Av. yield: 36 kg/pig

Enterprise	Pig farming
Season	Kharif/Rabi/Summer 2026-27
Main problem	Low body weight gain in pig
Main cause	Intense irritation, which leads to chronic stress, reduced feed intake, and wasted energy
Title of OFT	Assessment of Karanj oil and custard leaves extract to control external parasites in pig
Farming situation	Traditional pig rearing under rainfed production system
Thematic area	Livestock health management
Farmer practice	Use of karanj oil/ Neem oil
Technology option selected for assessment	To1: Neem Oil 100 ml + Sulphur 10g +Camphore 10g + Custard leaves extract for 3 alternative days To2: Karanj oil 100 ml + Sulphur 10g +Camphore 10g + Custard leave extract for 3 alternative days
Source of technology	BAU, Ranchi, 2020
No of trial	2 (10)
Detail of critical input	Sulphur, Camphore, Karanj oil, Neem oil
Cost of individual critical input	Rs. 100/-
Total cost of critical input	Rs. 1000/-
Performance indicator to be recorded	(i) Av. Body weight gain (ii) B:C ratio

OFT No. 3
Crop area of district in ha 81361 (ha) ,
District yield –(24.70q/ha) State yield (26.72q/ha)

Crop	Rice
Season	Kharif 2026
Main Problem	Low yield of Rice
Main Cause	Severe infestation of yellow stem borer (<i>Scirpophaga incertulas</i>) on rice resulting 20-30% yield losses.
Title of OFT	Assessment of insecticide for the management yellow stem borer (<i>Scirpophaga incertulas</i>) on rice.
Farming situation	Sandy loam, mid and low land, rain fed farming situation
Thematic area	Integrated pest management
Farmer Practice	Spray of chlorpyrifos or cypermethrin @ 2.5 ml/lit. of water when dead heart appear in the field
Technology option selected for assessment	T1- Fipronil 0.3G at 20 DAT @ 25 Kg/ha and the foliar spray with flubendamide 480% SC at 50 DAT @ 0.4ml/lit. of water T2- Chlorantraniliporle 0.4G at 20 DAT @ 10 Kg/ha and the foliar spray with flubendamide480% SC at 50 DAT @ 0.4ml/lit. of water
Source of technology	ANGRAU,ARS 2025
No. of Trial	3 (10)
Details of critical input	Chlorantraniliporle, fipronil and flubendamide
Cost of individual critical input	1000
Total cost of Critical input	10000
Performance indicator to be recorded	(i) Technical indicator (infestation %, number of tiller, no. of dead heart per hill , grain per panicle, Yield q/ha) (ii) Economic indicator (Cost of cultivation, Gross return, Net return and B:C Ratio) (iii) Farmer perception

OFT No. 4
Chickpea crop area of district in ha (14963 ha) ,
District yield –(16.5 q/ha) State yield (q/ha)

Crop	Chick Pea
Season	Rabi
Main Problem	Low yield of Chickpea
Main Cause	Pod borer (<i>Helicoverpa armigera</i>) heavily infested pod during pod formation resulting heavy losses . Estimated avoidable yield losses due to pod borer in chickpea to range between 30-50%.
Title of OFT	Assessment of insecticides for the management of pod borer in Chickpea
Farming situation	Sandy and Sandy loam, medium land, lowland Rainfed
Thematic area	Integrated Pest management
Farmer Practice	Chemical pesticide available in the market like Dimethoate, chlorpyriphos spray @ 2.5 ml/lit.of water etc. spray when symptoms of infestation appear in the field
Technology option selected for assessment	T1- Spray of Lambda cyhalothrin 5% EC @ 2.0 ml/lit. of water with two sprays applied first spray when pest population exceed the ETL and 15 days thereafter. T2- Spray of Chlorantraniliprole 18.5% SC @ 0.5 ml/lit. of water with two sprays applied first spray when pest population exceed the ETL and 15 days thereafter.
No. of Trial	10 (plot size 250 sq-m)
Details of critical input	Chlorantraniliprole & Lambda cyhalothrin
Cost of individual critical input	1000 /-
Total cost of Critical input	10000 /-
Performance indicator to be recorded	(i) Technical indicator (No. of pod per plant, % pod damage and yield Q/ha) (ii) Economic indicator (Cost of cultivation, Gross return, Net return and B:C Ratio) (iii) Farmer perception

OFT No:5
Crop area of district 9324 ha,
District yield (12 Q/ha) State yield (Q/ha)

Crop	Pigeonpea
Season	Kharif 2026
Main problem	Low yield
Main cause	Farmers use local seed
Title of OFT	Assessment of performance of climate resilient Pigeonpea varieties
Farming situation	sandy loam to loam soil, upland , rainfed farming situation
Thematic area	Pulse production
Farmer practice	Local seed - Chaitali (No seed treatment)
Technology option selected for assessment	T1- Birsa arhar 2 Spacing 45*30cm (Seed treatment with Rhizobium 7 - 10 gm/kg seed) T2- IPAE 15-6 Spacing 45*30cm (Seed treatment with Rhizobium 7-10 gm/kg seed)
Source of technology	BAU,Ranchi , ICAR-IIPR,Kanpur (2023)
No of trial	10
Detail of critical input	HYV Seed
Cost of individual critical input	Rs.300
Total cost of critical input	Rs.3000
Performance indicator to be recorded	<ul style="list-style-type: none"> i. Technical indicator Yield (Q/ha) ii. Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) iii. Farmer perception

OFT No:6

Crop area of district 81361 ha,

District yield (24.70 Q/ha) State yield (26.72 Q/ha)

Crop	Paddy
Season	Kharif 2026
Main problem	Low Yield in paddy
Main cause	Use local variety, lack of knowledge of improved HYV drought tolerance paddy varieties
Title of OFT	Assessment of Performance of drought tolerance paddy varieties
Farming situation	Loamy soil, medium land ,rainfed farming situation
Thematic area	Paddy production
Farmer practice	T1- Balibhojna (No seed treatment)
Technology option selected for assessment	T2- CR Dhan 807 (Seed treatment with Azospirillum 7- 8 gm/kg seed) T2- Swarna purvi dhan 1 (Seed treatment with Azospirillum 7 -8 gm/kg seed) T3- Swarna Shusk dhan (Seed treatment with Azospirillum 7- 8 gm /kg seed)
Source of technology	ICAR-NRRI Cuttack
No of trial	10
Detail of critical input	HYV drought seed, Azospirillum
Cost of individual critical input	Rs. 200
Total cost of critical input	Rs. 2000
Performance indicator to be recorded	i. Technical indicator (No of tillers, Effective tillers, grains per panicle, Yield (Q/ha) ii. Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) iii. Farmer perception

OFT No:7
Crop Area – 9324 ha,
District yield (12q/ha) State yield (13.5 q/ha)

Crop	Pigeonpea
Season	Kharif 2026
Main problem	Low yield in pigeonpea
Main causes	Weed infestation, High Labour cost
Title of OFT	Assessment of weed management through low - cost weeding tools in Pigeonpea cultivation
Farming situation	Sandy loam, Midland, Irrigated
Thematic area	Weed Management
Farmer practice	No weeding/hand weeding with khurpi/kudal
Technology option selected for assessment	T1: Three Tyne hoe (Grubber) T2: Rotary tiller (Manual)
Source of technology	CIAE, Bhopal 2021
No of trial	10
Detail of critical input	Three tyne hoe and Rotary tiller
Cost of individual critical input	Rs. 9000/-
Total cost of critical input	Rs. 9000/ha
Performance indicator to be recorded	(i) Technical indicator :Field Capacity, Field efficiency, Weeding efficiency, Yield (ii) Economic indicator :Cost of cultivation, Gross return, Net return, B:C ratio (iii) Farmer perception

OFT No : 8
Crop area – 520 ha,
District yield (150q/ha) State yield (q/ha)

Crop	Cauliflower
Season	Rabi 2026
Main problem	Low yield in Cauliflower
Main causes	Less Irrigation Water Availability, High Labour Cost
Title of OFT	Assessment of Drip Irrigation system in Cauliflower Cultivation
Farming situation	Sandy loam, Midland, Irrigated
Thematic area	Water Management
Farmer practice	Furrow Irrigation
Technology option selected for assessment	T1 Single Row Crop with Single Lateral Line T2 Double Row Crop with Single Lateral Line
Source of technology	IARI New Delhi
No of trial	10 (Area 0.4 ha/trail)
Detail of critical input	Nil
Cost of individual critical input	Nil
Total cost of critical input	Nil
Performance indicator to be recorded	(i) Technical indicator :Duty, Delta, Base Period, Water Use Efficiency, Water Foot Print, Yield (ii) Economic indicator :Cost of cultivation, Gross return, Net return, B:C ratio (iii) Farmer perception

Proposed FLD

2026-27

FLD No: 01

Crop area of district in 1241 ha,

District yield:10.75 q/ha, State yield: 12.25 q/ha

Title of FLD	Demonstration on improved cultivation practices of Ragi (Finger millet)		
Season & Year	Kharif & 2026		
Main Problem	Low yield of Ragi		
Main cause of problem	Use of local seed, lack of knowledge for scientific cultivation of ragi and improper farm management		
Full detail of farmer's Practice	Local seed and broadcasting method of cultivation, Seed rate 15 kg/ha, No seed treatment, imbalanced fertilizer use		
Full detail of technology to be demonstrated	High yielding Ragi var. BBM 10, Seed rate 8kg/ha, Seed treatment (Aspergillusawamori @ 25g/kg) Line sowing, Spacing 30 X10 cm, NPK 50:40:25 kg/ha,		
Source of Technology with year	BAU, Ranchi, 2020		
Name of the Technology	Improve Package of practices for Finger millet Cultivation.		
Thematic area	Integrated crop management : Millet production		
Name of villages	Charakhmara, Bergi, Jamband, Leda, Kowad		
Farming situation	Rainfed upland production system		
Area (ha)/Unit (No.)	01 ha	No of farmers	50

FLD No. 2
Chickpea crop area of district in ha (14963 ha) ,
District yield –(16.5 q/ha) State yield (q/ha)

Title of FLD	Demonstration on chickpea variety Pusa 3043 in medium land situation.		
Season & Year	Rabi 2025		
Main Problem	Low yield		
Main cause of problem	Low yield due to wilt .		
Full detail of farmer's Practice	Local variety avariety+ Mixed cropping with maize,		
Full detail of technology to be demonstrated	Sowing Time- 1 st week of November to Mid of November, Seed treatment with Rhizobium culture 200gm culture with 8 kg of seeds, Seed rate-80 kg /ha, Spacing 30X10 cm, Fertilizer application - 25:50:25:20Kg NPKS/ha, interculture operation at 1 st at 25 to 30 days and 2 nd at 50 to 55 days after sowing. Weed control–Spray of Pendimethalin 5ml /l of water within 3 days after sowing, Spray of Indoxacarb@0.5ml/ha at 50% flower and second 15 days after of 1 st spray for control of pod borer.		
Source of Technology with year	IIPR, Kanpur		
Name of the Technology	Variety (Pusa 3043) and full package of chickpea production.		
Thematic area	Crop production		
Name of villages	Govindpur, Dirlang		
Farming situation	Medium land, irrigated condition		
Area (ha)/Unit (No.)	4	No. of Farmer	25

FLD No. 3

Okra crop area of district in ha (2200 ha) ,
District yield –(140.0 q/ha) State yield (q/ha)

Title of FLD	Demonstration on integrated pest management of shoot and fruit borer in Okra		
Season & Year	Rabi 2026		
Main Problem	Low yield of Okra		
Main cause of Problem	<i>Shoot and fruit borer(Earias vittela) of Okra heavily infested at vegetative, flowering and fruiting stage resulting 30-70% yield losses</i>		
Full detail of Farmer's Practice	Repeated spraying of Dimethoat and chlorpyriphos when fruit borer appears in the field		
Full detail of Technology to be demonstrated	Spray of Rynaxpyre 0.25 ml/l at 25 DAS + NSKE 4% @ at 50DAS + Emamectin benzonate 0.5ml/l at 60-75 DAS + Bt 1ml/l at 90 DAS and NSKE 4% at 105-110 DAS		
Source of Technology with year	IVRI, Varanasi		
Name of the Technology	Integrated paste management of fruit and shoot borer in Okra		
Thematic area	Integrated paste management		
Name of villages	Dumurdiha, khokro, Dugni and Salam pathar		
Farming situation	Midland and sandy loam soil and irrigated situation		
Area (ha)/Unit (No.)	2 ha	No. of Farmers	30
Performance indicator	<ol style="list-style-type: none">1. Technical indicator- % infestation, yield losses, damaged fruit per plant and yield q/ha2. Economic indicator- (Cost of cultivation, Gross return, Net return and B:C Ratio)3. Farmer's feedback		

FLD No. 4

Bottle gourd crop area of district in ha (1180 ha) ,
District yield –(165.0 q/ha) State yield (q/ha)

Title of FLD	Demonstration of Wilt disease Management in Bottle Gourd		
Season & Year	Rabi 2026		
Main Problem	Low yield of Bottle gourd..		
Main cause of Problem	Fungal Pathogen Fuzarium oxysporum is soil as well as seed borne Pathogen causes wilting		
Full detail of Farmer's Practice	No seed treatment. When wilting symptom appear in the spray fungicide carbendazim @ 2.5 gm/l of water		
Full detail of Technology to be demonstrated	(i) Raise bed Planting (ii) Seed treatment with carbendazim @ 2.5 gm/kg of seed (iii) Soil application- soil application @ 2.5 kg/ha of Trichoderma viridae (1kg Trichoderma viridae in 100 kg FYM		
Source of Technology with year	BAU		
Name of the Technology	Management of wilt disease in Bottle gourd by integrated disease management approaches		
Thematic area	Integrated disease management		
Name of villages	Kukru, Tiruldih, Dhatkidih and Choeka,		
Farming situation	Sandy loam soil, Mid Land and irrigated situation.		
Area (ha)/Unit (No.)	2 ha.	No. of Farmers	30
Performance indicator	1. Technical indicator- Wilting %, Mortality %, Yield loss and yield q/ha 2. Economical indicator-(Cost of cultivation, Gross return, Net return and B:C Ratio) 3. Farmer's Feedback		

FLD No: 05

Title of FLD	Demonstration on perennial green fodder (Napier) cultivation		
Season & Year	Kharif & 2026		
Main Problem	Low production of dairy cattle		
Main cause of problem	Green fodder scarcity for stall feeding in Animal during winter & summer, lack of knowledge on scientific fodder production,		
Full detail of farmer's Practice	Open grazing, Paddy straw, Locally available green grass		
Full detail of technology to be demonstrated	HY Var. Super Napier/ CO8, Seed rate 32000 saplings/ha, Spacing 50X50, NPK 60:50:40 and 25kg/ha N/cutting		
Source of Technology with year	BAU, Ranchi, 2021		
Name of the Technology	Improved production technology of perennial green fodder		
Thematic area	Fodder production		
Name of villages	Narayanbeda, Gouri, Sukhsari		
Farming situation	Rainfed production system		
Area (ha)/Unit (No.)	1 ha	No of farmers	6
Performance indicator	<ol style="list-style-type: none">1. Technical indicator- Av. Yield q/ha, No. of cuts2. Economic indicator : Gross cost Rs. /ha), Net Return Rs. /ha), BC Ratio3. Farmer Feedback		

FLD No: 6

Title of FLD	Demonstration of Scientific Lac Production technology		
Season & Year	Kharif & 2026		
Main Problem	Low production of lac		
Main cause of problem	Lack of knowledge of scientific lac cultivation, High pest incidence of black, white moth and Chrysoperla, High mortality of insect, Non availability of HY brood lac,		
Full detail of farmer's Practice	Traditional method of lac cultivation, local brood lac, No pest management		
Full detail of technology to be demonstrated	Demonstration of Scientific LAC Production technology with HY Kusmi brood lac, pest management through IPM		
Source of Technology with year	ICAR- National Institute of Secondary Agriculture (NISA), Ranchi		
Name of the Technology	Improved Lac Production technology		
Thematic area	Secondary agriculture: Lac production		
Name of villages	Khukhra, Motileda, Bergi, Nawdiha		
Farming situation	Rainfed production system		
Area (ha)/Unit (No.)	60 Plants	No of farmers	20
Performance indicator	<ol style="list-style-type: none">1. (I) Technical indicator- Av. Yield kg/Plant, Pest infestation %2. (II) Economic indicator- Gross cost, Gross return, Net return, B:C ratio3. (III) Farmer Feedback-4. Return Rs. /ha), BC Ratio5. Farmer Feedback		

FLD No: 7

Title of FLD	Demonstration on improved rearing of Vigova duck		
Season & Year	Kharif & 2026-27		
Main Problem	Low body weight of duck		
Main cause of problem	Lack of scientific keeping of duck, non-descript desi duck, mortality and poor management in duckery production		
Full detail of farmer's Practice	Traditional duck keeping with non-descript desi birds		
Full detail of technology to be demonstrated	High yielding duck variety Vigova Super M, Vaccination, Mineral Mixture Supplement		
Source of Technology with year	CPDO, Bengaluru 2020		
Name of the Technology	Improved rearing practices of duck farming		
Thematic area	Duckery production		
Name of villages	Samanpur, Pahadhar, Jilingadar, Jamjoda		
Farming situation	Rainfed production system and semi- intensive duck production		
Area (ha)/Unit (No.)	300 No.	No of farmers	20
Performance indicator	<ol style="list-style-type: none">1. Technical indicator- Av. Body weight kg/bird, Mortality %2. Economical indicator- Gross cost, Gross return, B:C Ratio3. Farmers' feedback-4. (III) Farmer Feedback-5. Return Rs. /ha), BC Ratio6. Farmer Feedback		

FLD No: 8

Backyard poultry of district: 34057000,

District yield : 0.957kg/bird, State yield: 1.25kg/bird

Title of FLD	Demonstration on improved rearing of Jharsim backyard poultry		
Season & Year	Rabi & 2026-27		
Main Problem	Low body weight gain in backyard poultry production		
Main cause of problem	Lack of knowledge of scientific poultry keeping, non-descript desi birds and poor management in backyard poultry production		
Full detail of farmer's Practice	Traditional poultry keeping with non-descript desi birds		
Full detail of technology to be demonstrated	High yielding dual type backyard poultry breed Jharsim, Vaccination, Mineral Mixture supplement		
Source of Technology with year	BAU, Ranchi		
Name of the Technology	Improved backyard poultry production: Jharsim		
Thematic area	Backyard Poultry production		
Name of villages	Burudih,		
Farming situation	Rainfed production system and semi- intensive poultry production		
Area (ha)/Unit (No.)	400 No.	No of farmers	20
Performance indicator	1. Technical indicator-Av. Body weight (kg/bird), Av. Egg production (No.), Mortality % 2. Economical indicator- Gross cost, Gross return, B:C Ratio 3. Farmers' feedback-		

FLD No. 9
Crop Area of the district in 675 ha,
District yield 35q/ha, State Yield 30 q/ha

Title of FLD	Demonstration of Hydrogel to mitigated the moisture stress condition in Pointed gourd cultivation		
Season & Year	Kharif 2025		
Main Problem	Low yield		
Main cause of Problem	Yield loss in Rice due to erratic rainfall or long dry spell		
Full detail of Farmer's Practice	Traditional Rice cultivation		
Full detail of Technology to be demonstrated	Hydrogel enhance the water holding capacity of soil. It holds the water and keep on releasing during dry spell of about 15 to 20 days.		
Source of Technology with year	IARI		
Name of the Technology	Hydrogel		
Thematic area	Water Management		
Name of villages	Dhaniya, Barakhurshi and Cholagora		
Farming situation	Sandy loam soil, Midland and Rainfed farming		
Area (ha)/Unit (No.)	01 ha	No. of Farmers	10
Performance indicator	<ol style="list-style-type: none"> 1. Technical indicator- Duty, Delta, Base Period and Yield 2. Economical indicator- Cost of cultivation, B:C Ratio 3. Farmer's perception 		

Proposed training

2026-27

Training Programme: Farmers and Farm Women training 2026-27

Title of training programme (Animal Husbandry)	Venue	Thematic Area	Duration (Days)	Participant (No.)	Month
Good dairy practices during summer season	Off	Dairy production	01	50	April, 2026
Housing management of dairy cattle	Off	Dairy production	01	50	April, 2026
Feeding management of dairy cattle	Off	Feeding management	01	50	May, 2026
Importance of livestock vaccination	Off	Backyard poultry Production	01	50	May, 2026
Preparation and management of fish pond	Off	Feeding management	01	50	June, 2026
Improved duck farming practices	Off	Duck production	01	50	June, 2026
Composite fish farming	Off	Fish production	01	50	July, 2026
Care and management of livestock during rainy season	Off	Livestock production & Management	01	50	July, 2026
Methods of silage making	Off	Feeding Management	01	50	August, 2026
Improved backyard poultry production	Off	Poultry production	01	50	August, 2026
Improved sheep farming practices	Off	Sheep production	01	50	September, 2026
Control measures of PPR disease in goat	Off	Disease Management	01	50	September, 2026
Livestock based Integrated Farming System	Off	IFS	01	50	October, 2026
Cultivation	Off	fodder production	01	50	October, 2026

techniques of fodder crops					
Improved rearing practices of pig	Off	Pig production	01	50	November, 2026
Care and management of livestock during winter	Off	Livestock production	01	50	November, 2026
Processing and value addition of milk	Off	Value addition	01	50	December, 2026
Improved goat rearing practices	Off	Backyard poultry production	01	50	December, 2026
Management and control of poultry disease	Off	Disease management	01	50	January, 2027
Processing and value addition of meat	Off	Value addition	01	50	January, 2027
Management and control of FMD	Off	Disease management	01	50	February, 2027
Care and management of calf	Off	Dairy production	01	50	March, 2027

Title of training Programme (Agril. Engg.)	Venue	Thematic Area	Duration (Days)	Participants (No.)	Month
Interculture tools/ implements/equipments and their selection	On, off	Farm Mechanization	2, 1	30+30	July- August
Selection of harvesting equipments/tools/implements	On, off	Farm Mechanization	2, 1	30+30	September
Selection of plant protection equipments/tools/implements	On, off	Farm Mechanization	2, 1	30+30	May-Sept.
Implements for drudgery reduction of farm womens	On, off	Farm Mechanization	2, 1	30+30	May-Sept.
Water management techniques and methods for rabi and kharif crops/vegetables	On, off	Water Management	2, 1	30+30	July-Dec
Farm bunding and its role in mitigating drought	On, off	Water Management	2, 1	30+30	July-Dec
Rainwater harvesting for life saving irrigation	On, off	Water Management	2, 1	30+30	July-Dec
Micro irrigation	On, off	Water Management	2, 1	30+30	July-Dec

Title of training Programme (Plant Protection.)	Venue	Thematic Area	Duration (Days)	Participants (No.)	Month
Farmers and Farm Women training					
IPM in Kharif vegetables	Off	IPM	1	50	June-July
IPM in Pulses crops	Off	IPM	1	50	Oct-Nov
IPM in Rabi Vegetables	Off	IPM	1	50	August
Seed treatment and Nursery raising in crop & Vegetables	Off	IPM	1	50	March
Seed treatment & Nursery raising in Crop & Vegetables	Off	IPM	1	50	May-June
Management in storage of Farm Produce	Off	IPM	1	50	Dec-Jan
IPM in rice.	Off	IPM	1	50	July- August

Title of training Programme (GPB.)	Venue	Thematic Area	Duration (Days)	Participants (No.)	Month
Farmers and Farm Women training					
Important of summer ploughing and solarization	Off	Resource conservation	2	60	May
Rice seed production system	On	Seed production	1	30	June
Ragi ,Gondli production system	On	Small Millet production	1	30	June
Production technique of baby corn maize	Off	Crop diversification	1	30	August
Improved production technique of mustard and linseed	On	Oilseed production	2	60	September
Selection of quality seed	On	Farming component of crop			October

Training Programme : Rural Youth 2026-27

Title of training Programme	Venue	Thematic Area	Duration (Days)	Participants (No.)	Month
Good dairy practices and management	On	Dairy production	05	25	May, 2026
Skill and entrepreneurship development in pig production	On	Pig production	05	25	August, 2026
Commercial goat farming and marketing management	On	Goat production	05	25	October, 2026
Training for Paravets/ Pashu Sakhi	On	Livestock production	10	25	December, 2026
Entrepreneurship development in backyard poultry farming	On	Poultry production	05	25	February, 2027
Total training: 05			30	125	

Title of training Programme	Venue	Thematic Area	Duration (Days)	Participants (No.)	Month
Repair and maintenance of irrigation pumps and engines	On	Farm Mechanization	5	25	Dec-Feb
Periodic maintenance of farm implements	On	Farm Mechanization	5	25	Dec-Feb
Technological know how of micro irrigation	On	Water Management	5	25	Dec-Feb
Technological know how of protected cultivation	On	Protected Cultivation	5	25	Dec-Feb
Use of plastic in agriculture	On	Protected Cultivation	5	25	Dec-Feb

Title of training Programme	Venue	Thematic Area	Duration (Days)	Participants (No.)	Month
Rural Youth Training					
Integrated Farming system	On	IFS	3	25	June, 2026
Composting and Vermicompost Production	On	Vermi-composting	3	25	October,2026
Organic Farming	On	NRM	3	25	December,2026
Oyster Mushroom Production Techniques	On	Mushroom Production	5	25	February, 2027

Title of training Programme (GPB)	Venue	Thematic Area	Duration (Days)	Participants (No.)	Month
Rural Youth Training					
SRI production technique	On	Integrated crop management	2	25	May,2026
Quality seed production system of field crop for Seed Village	On	Seed production	3	25	July, 2026
Improved production technique of Oilseed crop	On	Crop diversification	3	25	October,2026
Improved production system of Pulse crop	On	Crop diversification	3	25	December, 2026
Technique of round the year fodder cultivation	On	Fodder production	3	25	January,2027

Vocational training 2026-27

Title of training Programme	Venue	Thematic Area	Duration (Days)	Participants (No.)	Month
Commercial pig farming and marketing management	On	Pig production	05	25	May, 2026
Improved duck farming and management	On	Duck production	05	25	July, 2026
Improved goat rearing practices and management	On	Goat production	05	25	September, 2026
Improved technique of backyard poultry production and management	On	Poultry production	05	25	November, 2026
Composite fish farming	On	Fish production	05	25	January, 2027
Commercial dairy farming and management	On	Dairy production	05	25	March, 2027
Total training: 06			30	150	

Extension Functionaries Training 2026-27

Title of training Programme	Venue	Thematic Area	Duration (Days)	Participants (No.)	Month
Frontier technology for livestock production and management	On	Livestock production and management	03	25	June, 2026
Quality seed production & management	On	Seed production	03	25	June, 2026
Integrated farming system Model for doubling farmers income	On	IFS	03	25	July, 2026
Livestock based IFS Modules	On	IFS	03	25	August, 2026
Natural Resource Management	On	NRM	03	25	September, 2026

Bio-fertilizer & Bio-pesticides and their uses	On	IPM	03	25	October, 2026
Processing and value addition of milk and meat	On	Value addition	03	25	November, 2026
Advanced mobile based technologies to ease the implementation of technologies	On	Information Technology	02	25	Dec.
Role of livestock in Natural Farming	On	Value addition	03	25	January, 2027

Proposed Extension Activities
2026-27

Extension activities 2026-27

Name of activity	No.	No. of farmers	Quarter wise details of activities to be conducted			
			Q1	Q2	Q3	Q4
Field day	08	400	2	2	2	2
Kisan Mela	02	1200	-	-	-	2
Kishan Ghosthi	08	300	2	2	2	2
Exhibition	1	100	-	-	1	-
Ex-trainees sammelan	2	200		1		1
Special day celebration	6	1500	2	2	2	2
Animal health camp	5	250	2		2	1
Soil test camp	4	250	2		2	
International Soil Day	01	110				1
SHG conveners meeting	3	90	1		1	1
Farmer Scientist interaction	4	200	1	1	1	1
Scientist visit to farmers field	12	360	3	3	3	3

Quality Seed Production Programme 2026-2027

S. No.	Season	Name of crops	Name of varieties	Area (ha) to be covered	Category of seed to be produced
1.	Kharif	Paddy	CR 305	1 ha	F/S
2.		Paddy	IR 64 Drt.	1 ha	F/S
3.		Paddy	Rajendra Mansuri	2 ha	F/S
4.		Ragi	BM10	0.5 ha	F/S
5.	Rabi	Mustard	BBM -1	1.5 ha	F/S
6.		Linseed	Priyam	1 ha	F/S

Detail of quality seedling/ sampling production programme

S. No.	Season	Name of vegetable /fruit	Name of varieties	No of seedling/ sampling to be prepared
1.	Kharif	Tomato	Swarna Sampada	2500 Seedling
2.		Chilli	Pusa Jawala	2500 Seedlings
3.		Papaya	Pusa Dwarf	2000
4.		Mango	Amrapali	1500
5.	Rabi	Cauliflower	Pusa snowball -16	2000 Seedlings
6.		Brinjal	Birsa Chiyanki Brinjal	1500 Seedling
7.		Cabbage	Cabbage 812	2000 Seedling

Soil & water testing 2026-27

S. No.	Name of activity	No of sample to be tested	No of farmer to be covered	Revenue to be generated (Rs)
1.	Soil testing	800	800	88000.00