KRISHI VIGYAN KENDRA, CHATRA

(Birsa Agricultural University, Ranchi Jharkhand)

ANNUAL ACTION PLAN

(2026-27)

1. GENERAL INFORMATION ABOUT THE KVK

Krishi Vigyan Kendra, Chatra came under existence in 2005 under the administrative control of Birsa Agricultural University, Ranchi with the following mandates and activities :

- On farm trial (OFT) for technology assessment and refinement
- Frontline demonstrations to establish production potential of various crops and enterprises on the farmers' fields
- Training for farmers in modern agricultural technologies and extension personnel to orient them in the frontier areas of technology development
- Extension activities
- Quality seed, planting material, livestock and poultry breed production
- Resource and knowledge center of agricultural technologies

General information about Chatra District

S.No	Demographic Features	Area (ha)
01	Geographical Area	369367.23
02	Net sown area	88700
03	Forest	221117.35
04	Fallow land	33800
05	Land not available for cultivation	25749.88
06	Cultivable land	107568
07	Number of Sub-Division	02
08	Number of Blocks	12
09	Number of Panchyats	154
10	Number of Villages	1474
11	Number of Farmers	1,32,000

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

Name and address of KVK	E-Mail
Krishi Vigyan Kendra, Chatra, Seed Multiplication Farm, Kullu, Post- Tapez, Dist- Chatra, State – Jharkhand, Pin Code - 825401	chatrakvk@gmail.com kvkchatra2012@gmail.com

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

Dr. Rabindra Mohan Mishra	7260075141; 7903975994	rmmbau@gmail.com chatrakvk@gmail.com kvkchatra2012@gmail.com

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

Year - 2005 (ICAR Sanction order No. F. No. 6 (1) 2000-AE-1 Dated 7th Dec. 2004.

1.5. Year of start of functioning of KVK: 2005

1.5. Staff Position (**as on 31st** March 2026)

Sl. No.	Sanctioned post	Name of the Incumbent	Designation	Discipline	Pay Scale with Present Basic	Date of joining	Permanent/ probation	Category (SC/ST/ OBC/ Others)
1.	Senior Scientist& Head							
2.	Subject Matter Specialist	Dr Rabindra Mohan Mishra	I/C Senior Scientist and Head	Animal Husbandry	15600-39100 1,07,300.00	06-10-2025	Permanent	Gen
3.	Subject Matter Specialist	Dr Sunita Kumari Kamal	Scientist, home science	Home science	15600-39100 1,07,300.00	08-10-2025	Permanent	SC
8.	Programme Assistant	Upendra Kumar Singh	Programme Assistant	B.Sc. Ag.	9300-34800 66000.00	15.03.2005	Permanent	Gen
10.	Farm Manager	Shiwendra Kumar Dubey	Farm Manager	M.Sc. Ag. (Horticulture)	9300-34800 66000.00	15.03.2005	Permanent	Gen
11.	Accountant / Assistant	Amit Anand	Assistant	Btech in Chemical Engineering	9300-34800 4200	19.06.2025	Permanent	Gen
12.	Skilled Support Staff	Avinash Kuma Singh	Skilled Support Staff	M.Sc Botany	5200-20200	22.08.2025	Permanent	Gen

					1900			
13.	Driver							obc
14.	Driver							Obc
15.	Supporting staff							ST
16.	Supporting staff							Gen

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	0.8
2.	Under Demonstration Units	0.8
3.	Under Crops	0.8
4.	Horticulture	0.5
5.	Pond	0.5
6.	Others if any	6.6
	Total	10.0

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding		Stage					
				Complete			Incomplete		
		ICAR	RKVY	Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR		2005	550	80 lac	-	-	Good
2.	Farmers Hostel	ICAR		2005	350	40 lac	-	-	Good
3.	Staff Quarters (6)	ICAR		Incomplete	2500	-			Not in good condition
4.	Demonstration Units (2)	-	-	-	-	-	-	-	-
5	Fencing	ICAR	-	Incomplete	600 mtr.	-	-	-	Not in good condition
6	Rain Water harvesting system	ICAR	-	Incomplete	1117	-	-	-	Not in good condition
7	Threshing floor	ICAR	-	-	1000	-	-	-	Good
8	Farm ware-house	ICAR	-	-	500	-	-	-	Good
	Other								

B) Vehicles

Type of vehicle	Year of purchase	Source (ICAR/RKVY)	Cost (Rs.)	Total kms. run as on December, 2024	Present status
Jeep	2024	ICAR	600000	17450	Good

(Bolero) JH-01-FQ-9581					Condition
Tractor (Massey) JH01 P03368	2006	ICAR	500000	1509 (Hr)	Not in Good Condition
Motorcycle JH13 C 8770	2017	ICAR	59000	24078	Good Condition
Motorcycle JH13 C 4944	2017	ICAR	59000	27782	Good Condition

C) Equipment's& AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Atomic Absorption spectrophotometer (AAS 4141) with all accessories.	2010	552520	In use
Double beam UV-VIS spectrophotometer (5404 SS) with accessories.	2010	230000	In use
Flame Photometer	2010	70000	In use
Conductivity meter	2010	15000	In use
PH meter	2010	15000	In use
Orbital Shaker	2010	-	In use
Top leading Balance	2010	-	In use
Electronic Balance	2010	55500	In use
Hot Air Oven (Drying oven)	2010	20000	In use
PC/Date station	2010	-	In use
Centrifuge	2010		In use
Super Salient Generator 10 KVA	2010	231669	In use
Uniline 5.0 (Five) KVA Online UPS with sealed maintenance Free battery (15 Nos. x 12V 65 AH of amount) & Battery Rack.	2010	-	In use
Hot Air Oven (Drying oven)	2010	552520	In use
Distillation Unit	2011	16500	In use

Revolving Chair	2005-2006	18000	In use
Revolving Chair (Executives)	2005-2006	4200	In use
Computer Chair	2005-2006	1400	In use
Steel Office Table	2005-2006	19000	In use
Wooden Office Table (Executive)	2005-2006	4500	In use
Computer Chair	2005-2006	1700	In use
Steel Office Almirah	2005-2006	10200	In use
Steel Office Almirah (Locker)	2005-2006	3500	In use
Book Self	2005-2006	9000	In use
Fiber Chair	2005-2006	10000	In use
Fiber Table	2005-2006	1600	In use
Wooden Podium	2005-2006	4500	In use
Info panel Display Board (with Stand)	2005-2006	6132	In use
Notice Board (with ever)	2005-2006	4851	In use
Tractor (Massey)	2006	500000	In use
Jeep (Tata Sumo SE)	2006	500000	In use
LCD Projector	2007	58487.5	In use
Digital Camera (Sony)	2007	14512	In use
Sound system	2018-19	22500.00	In use
Meeting table	2018-19	130000.00	In use
Meeting Chair	2018-19	206000.00	In use
Laptop	2007		
Smart Board	2007		
Disc Plough	2007	26995	In use
Disc Harrow	2007	18500	In use
Grass Cutter	2007	38500	In use
M.B. Plouth	2007	26993	In use
Seed Cum fertilizer Drill	2007	18200	In use
Rotary Tiller Rotovator	2006-2007	88585	In use
Power Sprayer	2022-23	48500	In use
Cage-wheel Nut Bolt Type	2007	5530	

Combined Harvester	2007	-	
Soil Conservation Department			
cSV^{a}h pkfyr Lisz;j	2013		In use
EkdZj	2013		In use
usilsd Lizs;j 16 yhVj	2013		In use
DksuksohMj	2013		In use
jkSfdax Lizs;j	2013		In use
iEi lsV 5 HP	2013		In use
iksLV gksyMhxj	2013		In use
QVhZykbtj czkMdkLVj	2013		In use
ikoj Lizs;j 11-5 yhVj	2013		In use
eSuq,y Lizs;j (Neptune)	2013		In use
Fjij	2014		In use

1.8. A). Details of SAC meetings to be conducted in the year

Sl. No.	**Date**
1. Scientific Advisory Committee	29.04.2026

Suggestions of SAC meeting

19th SCIENTIFIC ADVISORY COMMETTEE MEETING

KRISHI VIGYAN KENDRA CHATRA

BIRSA AGRICULTURAL UNIVERSITY

RANCHI-6, JHARKHAND

Proceedings of the 19th Scientific Advisory Committee (SAC) Meeting

KrishiVigyan Kendra (KVK), Chatra

Date: 29/04/2026

Venue: Meeting Hall, KVK, Chatra

The 19th Scientific Advisory Committee (SAC) meeting of KVK, Chatra was held on 29th April 2026 under the chairmanship of **Dr. B. K. Agarwal**, Chief Scientist-cum-University Professor & Director of Student Welfare, BAU, Ranchi.

(List of participants appended)

The meeting was attended by the Senior Scientist & Head, KVK Chatra, along with KVK scientists and staff members. Heads and representatives of district line departments including District Agriculture Officer-cum-Project Director (ATMA), District Horticulture Officer, District Soil Conservation Officer, District Fisheries Officer, representative of District Animal

Husbandry Department, Lead District Manager (LDM), District Development Manager (NABARD), NGO representatives, progressive farmers, and farm women were also present.
The meeting proceedings were conducted by **Dr. Rabindra Mohan Mishra**, Senior Scientist & Head, KVK Chatra.

Proceedings

The meeting commenced with a welcome address by Dr. R. M. Mishra, who welcomed the Chairman and all dignified members of SAC. After brief introductory remarks, the Chairman, Dr. B. K. Agarwal, directed the house to proceed as per the proposed agenda.
Dr. R. M. Mishra presented the **Action Taken Report (ATR) for the year 2025–26**.

Key Observations and Recommendations by the Chairman after the presentation of action taken report (2025-26)

The Chairman made the following suggestions for improvement and future action:

1. **Detailed Action Taken Report**
   The ATR should be presented in a more comprehensive manner with proper data representation to enable clear quantification of activities.
2. **Impact Assessment of KVK Programmes**
   Regular impact studies should be conducted and presented in terms of **productivity and profitability** based on comparative data (before and after KVK interventions).
3. **Soil Testing and Data Documentation**
   Soil testing data should be presented for different land situation as well as dominant cropping system prevailing the Chatra districts to have better information to the stake holders and officers of line department .
4. **Training Programme Impact Study**
   Impact assessment of training programmes should be systematically carried out to evaluate effectiveness on trainees.
5. Dr Akhilesh Sah, Associate Director ZRS Chiyanki suggest to present rainfall data of the whole year so that the results could be better interpreted.

Thereafter, Dr. Rabindra Mohan Mishra presented the progress report for the year 2025–26. He highlighted the achievements and work carried out under various ongoing programmes such

as CFLD (Oilseeds), Model Pulse Village, ARYA, TSP, SCSP, soil testing, and other extension activities conducted at KVK Chatra.

After obtaining due permission from the Chair, Dr. Mishra also presented the Action Plan for the year 2026–27. The following key points were suggested for overall improvement in extension activities:

1. On-Farm Trials (OFT) on composite fish farming should be conducted in consultation and collaboration with line departments.
2. OFTs on issues to resolve the problem of anemia in the women and constipation in general should be addressed by the Home Science Scientist.
3. The research outcome from the OFT on food supplements should be commercialized. Multi-location studies on shelf-life and keeping quality of different products should be undertaken.
4. Assessed and approved technologies should be taken up under Front Line Demonstrations (FLDs) for wider dissemination.
5. **Paddy Seed Production:** Seed production programmes should be implemented based on indent received from different organization both Govt. and Private for cereals, oilseeds, and pulses. Emphasis should be given to seed production at the KVK farm considering farmers' demand and local suitability.
6. **Production and Sale of Saplings:** Vegetable and other crop saplings should be raised and sold to farmers to enhance KVK visibility and generate income. Presentations should include details such as number of saplings produced, and income generated.
7. **Market-Oriented Technologies:** Priority should be given to technologies that enable early production of vegetable and market access for higher profitability.
8. **Low-Cost Farmer-Friendly Technologies:** Emphasis should be placed on practical, low-cost technologies that enhance farmers' income.
9. **Mr. Gautam Kumar,** District Agriculture Officer, Chatra emphasized the urgent need for an Agronomy Scientist at KVK Chatra for holistic improvement in its functioning.
10. **The DDM, NABARD**, expressed interest in collaboration with KVK and requested a package of recommended technologies for wider dissemination among farmers of the district.

The Action Plan for 2026–27 was critically reviewed and approved unanimously by the house.

In his concluding remarks, the Chairman, Prof. Dr. B. K. Agarwal, appreciated the commendable work of KVK Chatra despite the shortage of scientists and resources. He also acknowledged the valuable contributions of all members in making the programme successful.

The meeting concluded with a vote of thanks proposed by Dr. Rabindra Mohan Mishra, Senior Scientist & Head, KVK Chatra.

2. DETAILS OF MICRO-FARMING SITUATIONS OF THE DISTRICT

2.1 Micro-farming situations

a) Characteristics

S.No.	Agro-Ecological situations (AES)	Existing Farming System (Crop+livestock+others)	Major soil types
1	AES 1 (Name)	Forest Covered upland undulated Gravely soil type Rainfed, orchard, social forestry, livestock production, vegetables.	Gravely soil type
2	AES 2 (Name)	Rainfed- Gravelly Soil type	Gravelly Soil type
3	AES 3 (Name)	Canal irrigated Calcareous soil-plains Crop, vegetable and fruit trees	Calcareous soil-plains
4	AES 4 (Name)	Rainfed-sandy loam (No Canal, Tube well) Plains- paddy, crops and vegetables, orchard	Sandy loam

b) Land Characteristics

S.No	Agro-Ecological Situation (AES)	Topography	Agro-Ecological Situation features	Drainage
1.	AES-1 (Name)	Forest Covered upland undulated Gravely soil type Rainfed	Rain-fed, forest area in upland undulated gravely, sandy loam soil, very poor water holding, acidic soil, un-irrigated, well drained, aerobic soil, subsistence farming, prone to drought stress and water erosion	Good drainage
2.	AES-2 (Name)	Rainfed- Gravelly Soil type	Rain-fed gravely sandy loam soil, porous soil, poor water holding capacity, susceptible to erosion and drought, low soil pH, deficient nutrient like P, N and K.	Good drainage
3.	AES-3 C	Cannel irrigated Calcarious soil-plains	Canal/ Tub well, pond, well irrigated calcareous soil, low organic matter in soil, pH above 6.5	Poor drainage
4	AES-4 V	Rainfed-sandy loam	Rain-fed, sandy loam, well drained	Good drainage

		(No Cannel, Tube well) Plains	soil, poor water holding capacity, poor organic matter content	

c) AES-wise major problems

S.No	Agro-Ecological Situation (AES)	Major problems	Rank
1.	AES-1 (Name)	**Chatra** ➢ Poor Productivity of rice, wheat and oilseed. ➢ No crops diversification ➢ Indigenous breed of animals ➢ More infestation of diseases and pest ➢ Use of local farm implements	**8**
2.	AES-2 (Name)	**Hunterganj** ➢ Poor Productivity of rice, wheat and oilseed. ➢ No crops diversification ➢ Indigenous breed of animals ➢ More infestation of diseases and pest ➢ Use of local farm implements	**9**
3.	AES-3 (Name)	**Gidhour** ➢ Traditional package practices of serial and pulses ➢ Poor Productivity of vegetables ➢ Poor productivity of serial and pulses ➢ Low milk yield of cow and buffaloes ➢ Poor profitability of small animals like goat, pig and poultries.	**10**
4	AES-4 (Name)	**Tundwa** ➢ Farmers are not aware of improved variety ➢ Use of traditional varieties ➢ Low productivity of serial and pulses	**10**

2.2. Area, Production and Productivity of major crops cultivated in the district (2025)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)	Yield gap (q/ha) with respect to demo of last year	Yield gap (q/ha) with respect to potential yield
1	Rice	36053	12448	23.50	10	45

2	Maize	4816	15604	22.00	15	30
3	Pigeon Pea	3713	4902	11.20	7.5	25
4	Groundnut	292	288	9.75	8	20
5	Sesame	73	44	6.00		
5	Wheat	8900	1602	18.50	14	26
6	Rapseed and Mustard	14566	990	6.80	7	20
7	Linseed	1543	78	5.00	8	16
8	Summer Moong	174	152	8.75	6.5	15
9	Cauliflower	329	4967	151	65	250
10	Brinjal	130	1239	195	85	300
11	Cabbage	381	7626	142	275	600
12	Ladies finger	210	2688	128	30	150
13	Tomato	303	3939	130	35	250
14	Green chilli	331.25	1607	48.50		
15	Onion	401	7017	175		
16	Green pea	324	4526	140		
17	Green chilli	331.25	1607	48.50		
18	Onion	401	7017	175		
19	Green pea	324	4526	140		
20	Potato	1607	24105	150		
21	Radish	155	1798	116		
22	Tomato	3036	48272	159		
23	Cauliflower	1280	25578	210		

Source: District agriculture department. 2025-26

2.3. Weather data (2024-25)

Year	Month	Rainfall (mm)	Temperature ^{0}C		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
2024			NA	NA	NA	NA
	January	2.8	NA	NA	NA	NA
	February	13.8	NA	NA	NA	NA
	March	3.5	NA	NA	NA	NA
	April	0.9	NA	NA	NA	NA
	May	1.1	NA	NA	NA	NA
	June	18.9	NA	NA	NA	NA
	July	69.1	NA	NA	NA	NA
	August	302.4	NA	NA	NA	NA
	September	266.1	NA	NA	NA	NA
	October	3.1	NA	NA	NA	NA
	November	0.0	NA	NA	NA	NA
	December	0.0	NA	NA	NA	NA
2025		681.7	NA	NA	NA	NA
	January	0	NA	NA	NA	NA
	February	0	NA	NA	NA	NA
	March	8.2	NA	NA	NA	NA
	April	25.3	NA	NA	NA	NA
	May	55.4	NA	NA	NA	NA
	June	498.6	NA	NA	NA	NA
	July	341.23	NA	NA	NA	NA
	August	259.06	NA	NA	NA	NA

	September	141.9	NA	NA	NA	NA
	October	86.5	NA	NA	NA	NA
	November	15.91	NA	NA	NA	NA
	December	0	NA	NA	NA	NA
Total		**1432.1mm**				

2.4 Production and productivity of livestock, Poultry, Fisheries etc. in the district (2024)

Category	**Population**	**Production**	**Productivity**	**Productivity gap**
Cattle				
Cow	499847	NA	NA	NA
Cross bred cow	10790			
Buffalo	102000	NA	NA	NA
Sheep	300965	NA	NA	NA
Goats	457	NA	NA	NA
Cattle		NA	NA	NA
Crossbred	10790	NA	NA	NA
Indigenous	499847	NA	NA	NA
Pigs	73570	NA	NA	NA
Poultry				
Hens	691061	NA	NA	NA
Category		**Production (q)**	**Productivity**	
Fish (Reservoir)	440	NA	NA	NA
Perennial pond	130	NA	NA	NA
Farmers' pond	50	NA	NA	NA

*Statical report

2.5 Details of Operational area / Villages

Taluka	**Name of the block**	**Name of the village**	**Major crops & enterprises**	**Existing yield (q/ha, number/year)**	**Major problem identified**	**Identified Thrust Areas**

Chatra	Chatra		Rice,Maize, Wheat, Mustard, Gram,Linseed Pig, Goat		➢ Poor Productivity of rice, wheat and oilseed. ➢ No crops diversification ➢ Indigenous breed of animals ➢ More infestation of diseases and pest ➢ Use of local farm implements	ICM IDM INM IPM
	Hunterganj		Rice,Maize, Wheat, Mustard, Gram,Linseed Pig,Goat		➢ Poor Productivity of rice, wheat and oilseed. ➢ No crops diversification ➢ Indigenous breed of animals ➢ More infestation of diseases and pest ➢ Use of local farm implements	ICM IDM INM IPM
	Giddhour		Rice, Maize, Wheat, Poultry, Goatry, Piggery, Pigeon Pea, Moong, Mustard, Niger, Groundnut		➢ Traditional package practices of serial and pulses ➢ Poor Productivity of vegetable ➢ Poor productivity of serial and pulses ➢ Poor productivity of cow and buffalo ➢ Poor profitability of pig rearing	ICM IDM INM IPM

	Giddhour		Redgram,Linseed, Ladysfinger , Cauliflower, Cabbage,Capcium, Pig,Goat,Rice Cauliflower		➢ Traditional package practices of serial and pulses ➢ Poor Productivity of vegetables ➢ Poor productivity of serial and pulses ➢ Low milk yield of cow and buffaloes ➢ Poor profitability of small animals like goat, pig and poultries.	- ICM - IDM - INM - IPM
	Prataappur		Rice, Maize, Wheat, Poultry, Goatry, Piggery, Pigeon Pea, Moong, Mustard, Niger, Groundnut		➢ Traditional package practices of serial and pulses ➢ Poor Productivity of vegetable ➢ Poor productivity of serial and pulses ➢ Poor productivity of cow and buffalo ➢ Poor profitability of pig rearing	- ICM - IDM - INM - IPM
	Simaria		Rice,Onion, Gram,Linseed, Ladysfinger,Goat, Cow		➢ Traditional package practices of serial and pulses ➢ Poor Productivity of vegetable ➢ Poor productivity of serial and pulses ➢ Poor productivity of cow and buffalo ➢ Poor profitability of pig rearing	- ICM - IDM - INM - IPM

2.6 Top five major priority thrust areas:

- Knowledge gap in farming community regarding proven technological options
- Economic constraints as 31.8% farmers are under BPL population
- Poor linkages with financial agencies and market
- Erratic rainfall, poor water-holding capacity of soil, high evaporation loss and unproductive soil texture
- Critical rainfed diversified conditions (only 10% of the area under assured irrigation).sectors due to poor

3. TECHNICAL PROGRAMME

3 A. Details of targeted mandatory activities by KVK

OFT		FLD		
(1)		(2)		
Number of OFTs	Number of Farmers	Area (ha)	No of enterprises	Number of Farmers
4	40	-	6	190

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
52	1120	138	1400

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
80	10000	Nil	7000

3 B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Health management in goat	Goat farming	Poor growth and high morbidity due to diarrhea	Assessment of probiotics in goats kids (2-3 months) to solve the issues like poor body weight gain					
2	Health management in pig	Pig farming	Poor growth and high morbidity due to diarrhea	Assessment of probiotic in piglets to prevent piglet diarrhoea					

3	Enhancing fish productivity by intensification	Fish farming	Low productivity in IMC fish culture	Assessment of profitability in composite fish culture by integrating IMC with Rupchanda fish					
4	Value addition	Finger millet	Poor acceptability of sole ragi product	Assessment of value added ragi ladoo					
5	Nutrition and income generation	Oyster Mushroom	Poor yield		Cultivation of Oyster mushroom	Mushroom production techniques		Extension literature	
6	Breed improvement	Pig, breed-Jharsuk	Low productivity and profitability		Demonstration of jharsuk pig for commercial farming	Pig farm management		Extension literature	
7	Feed management for health improvement	Goat	Deficiency of feed and fodder		Demonstration of dried mahua flower	Goat farm management		Extension literature / newspaper popular article	
8	Preventive health care in backyard poultry	Backyard poultry	Capacity building		Demonstration of preventive health package in backyard chicken	Backyard chicken and duck farming		Do	

9	Value addition of finger millet	Value addition of finger millet	Capacity building		Malted finger millet				
10	Animal health management		Capacity building			Major poultry diseases and their management			
	Post Harvest	Fruit and vegetable	Lack of knowhow			Preservation of seasonal fruit & vegetables			
	Livestock farm management	Dairy farming	Knowledge building			Dairy farm management-feeding, housing and disease management			
	Livestock farm management	Goat farming	Capacity building			Goat farm management-breeding, nutrition, shelter and disease management			

	IFS	IFS	Capacity building			Integrated farming system (livestock based farming system)			
	Small scale processing	Finger millet	Capacity building						

3.1 Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										

TOTAL										

A.2. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Vermi culture	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-	1	-
Nutrition Management	-	-	-	1	1	-	-	-
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL				**1**	**1**	**-**	**1**	**3**

B. Details of all On Farm Trial in the given format

Crop	Goat
Season	Kharif/rabi
Main problem	High morbidity and poor body weight gain in kids
Main cause	Due to gastro-intestinal complications
Title of OFT	Assessment of probiotics in goats kids (2-3 months) to solve the issues like poor body weight gain
Farming situation	Semi intensive farming
Thematic area	Management of low productivity in goat farming
Farmer practice	T1- Basal diet only
Technology option selected for assessment	T2- Basal diet + home-made Probiotic @ 25 g/animal for 60 days T3- Basal diet + home-made Probiotic @ 50 g/animal for 60 days
Source of technology	IVRI, Bareilly
No of trial	20 kids (2-3 months of age)
Detail of critical input	Probiotics
Cost of individual critical input	50.00
Total cost of critical input	1000.0000
Performance indicator to be recorded	i) Technical indicator (Initial and final body weight, Fortnightly body weight measurement , total weight gain, average daily gain (ADG), incidence of diarrhoea, faecal score, coat condition ii) Economic indicator (Cost of supplements, Gross return, Net return, B:C

	ratio) iii) Farmer perception

2 OFT.

Crop	Pig
Season	Kharif/ rabi
Main problem	High morbidity and poor body weight gain in piglets due to diarrhoea at creeper and weaner stages (15 days to 70 days)
Main cause	Diarrhoea, poor digestibility and sub-optimum body condition
Title of OFT	Assessment of probiotic in piglets to control piglet diarrhoea
Farming situation	Intensive system of pig farming
Thematic area	Management of low productivity in pig
Farmer practice	T1 Basal diet only Day-28 to day 70 of farrowing
Technology option selected for assessment	T2 Basal diet + home-made Probiotic @ 25 g/animal- -28 to day 70 T3 Basal diet + home-made Probiotic @ 25 g/animal- -28 to day 70
Source of technology	IVRI, Bareilly
No of trial	20 (piglets)
Detail of critical input	Lactoacillus and vitamin AD3E
Cost of individual critical input	Rs. 100 per piglet
Total cost of critical input	Rs. 2000
Performance indicator to be recorded	1. Technical indicator (Initial and final body weight, Fortnightly body weight , Total weight gain and Average daily gain (ADG), Daily feed consumption, Incidence of diarrhoea, Faecal score and coat condition 2. Economic indicator (Cost of supplements, Gross return, Net return, B:C ratio) 3. Farmer perception

3 OFT

Crop	Fish farming
Season	Kharif/ rabi
Main problem	Low profitability
Main cause	Inappropriate fish culture technique
Title of OFT	Assessment of profitability in composite fish culture by integrating IMC with Rupchanda fish
Farming situation	Integrated fish farming
Thematic area	Management of low profitability in IMC fish culture
Farmer practice	T1- IMC + feed supplement

Technology option selected for assessment	T2- IMC + Rupchanda (1000 per acre) + feed supplement
Source of technology	College of Fisheries, Gumla, BAU, Ranchi
No of trial	3 trials/treatment
Detail of critical input	Rupchand fish (1000 per acre)
Cost of individual critical input	Rs 2500
Total cost of critical input	Rs. 7500
Performance indicator to be recorded	(i) Technical indicator (production and productivity per unit area) (ii) Economic indicator (Cost of inputs, Gross return, Net return, B:C ratio) (iii) Farmer perception
Crop	Ragi (value addition)
Season	Rabi
Main problem	Poor consumption of ragi (finger millet) due to lack of value added products
Main cause	Formulation of value addition with most nutritious combination using available food ingredients
Title of OFT	Assessment & development of value added products of Ragi.(Finger Millets).
Farming situation	Rainfed farming
Thematic area	Value addition of local cereals
Farmer practice	T1 - Consumption of unprocessed Ragi flour.
Technology option selected for assessment	T2- Madua Laddu (Ragi flour 50g, Bengal gram powder 50g,Groundnut 25g,Ghee 90g, Sugar70g) T3- Madua cacke – (Ragi flour 50g, Refine flour 50g, Ghee 100g, Sugar 100g, Egg – 1Pcs,Baking Powder 1tsp, Cheery according to, Vanilla essence 25 ml)
Source of technology	Birsa Agricultural University Kanke, Ranchi.
No of trial	10
Detail of critical input	All food items related to OFT.
Cost of individual critical input	Rs. 1000/-
Total cost of critical input	Rs. 10000/-
Performance indicator to be recorded	(i) Technical indicator- A) General Acceptability test according to 5 point hedonic scale,(Taste, Texture, Flavour, Colour). B) Storage period (Days). (ii) Economic indicator- A) cost of cultivation. B) gross return. C) net return

3.2 Frontline Demonstrations

A. Details of FLDs to be organized -

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demon.	Parameters identified (Yield related attributes, yield economics and farmers' perception
1	Nutria-garden	Intensification	Organic vegetable cultivation	Seeds, vermicompost	Rabi	1	50	(I) Cauliflower, cabbage,
2.	Goat	Nutrition	Dried Mahua flower feeding rainy and winter season	Dried Mahua flower	Kharif/ rabi	50 goats	5	(I) Body condition, weight
3	Poultry (chicken)	Disease management	Preventive health package for backyard chicken	Ranikhet vaccine, dewormer, mineral supplement	Kharif/ rabi	200 chicken	10	1. Mortality, weight gain, morbidity, etc
4	Piggery	Breed improvement	Jharsuk pig for higher profitability	Jharsuk piglet	Kharif/ rabi	30piglets	10	i. Productivity, profitability
5	Mushroom	Employment generation	Oyster mushroom production	Spawn, chemicals for sterilization	Kharif/ rabi	200 bags	10	(I) Productivity, profitability
6	Ragi	Value addition	Ragi malting for value addition	-	-	-	10	Technical indicator- Production (kg/unit), Infestation, Storage Period, Acceptability Economic indicator- B:C ratio Farmer Feedback-
				Total			**95**	

Sponsored Demonstration

Crop	Area (ha)	No. of farmers

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Farmers Training	5	June-December	200
2	Field days	5	December-march 27	200
3	Media coverage	4	July-December	-
4	Training for extension functionaries	1	October	30

C. Details of FLD on Enterprises

(i) Farm Implements- NA

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators

(ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / indicators
Goat	Black Bengal/ local non-descript	10	100	Mahua dried flower	Weight gain at 15 days interval, B:C ratio
Pig	Jharsuk	10	30	Piglets	Productivity and profitability
Chicken (poultry)	Desi birds in backyard	10	200	Ranikhet vaccine, mineral supplement, deworming	Morbidity and mortality, productivity
Nutria-garden	Vegetables of different varieties	20	0.05ha (1 ha)	Seedsof vegetables, vermicompost	Production of vegetables per unit, profitability, money saved in purchase of vegetable from market
Ragi malting	Finger millet (ragi)	10	10kg	Finger millet	Storage capacity, Acceptability, B:C ratio
Mushroom	Oyster mushroom	10	200 bags	Mushroom spawn,	Productivity, income generation, B:C ratio

				chemicals for sterilization	

Details of all FLD in the given format

1.

Title of FLD	Dried Mahua flower (Madhuca longifolia) as feed supplement in winter season as an energy source		
Season & Year	During winter season (December- February)		
Main Problem	Weight loss and poor body condition during winter season		
Main cause of problem	Scarcity of leafy fodder		
Full detail of farmer's Practice	Grazing + diluted rice gruel		
Name of the Technology	Dried mahua flower supplement to overcome feed and fodder scarcity		
Full detail of technology to be demonstrated	Dried mahua feed as supplement @ 50 grams per day per adult for three months (December, January and February), Crude protein 9.4-10.02; Digestible crude protein 0.03; Total digestible nutrients 37.04; Calcium 1.66; Phosphorus 0.1-0.2 The dried flowers will be soaked in water 6 hours before feeding		
Thematic area	Nutrient management		
Source of Technology with year	BAU, Ranchi		
Name of villages	Geri, pratappur		
Farming situation	Rainfed farming/ upland		
Area (ha)/Unit (No.)	50	No. of farmers	5
Performance indicator	(I) Technical indicator- body weight before the initiation of demonstration, , body weight at 15 days interval, productivity and profitability (II) Economic indicator- per kg increase in body weight, B:C ratio (III) Farmer Feedback-		

2.

Title of FLD	Promotion of improved pig farming
Season & Year	Rabi-2026-27
Main Problem	Low productivity and profitability in pig farming
Main cause of problem	Non descript and poor quality breed unsuitable for commercial pig farming
Full detail of farmer's Practice	Non descript pig breed with poor productivity reared under extensive farming system
Name of the Technology	Jharsuk breed for optimum productivity and profitability under semi-intensive farming system

Full detail of technology to be demonstrated			
Thematic area	Promotion of improved pig farming		
Source of Technology with year	Birsa Agricultural University		
Name of villages	Simeria		
Farming situation	Rainfed farming/ upland		
Area (ha)/Unit (No.)	30 piglets	No. of farmers	10
Performance indicator	(I) Technical indicator- adoptability, productivity, prolificacy and profitability (II) Economic indicator- cost of production, gross return, net return and B:C ratio (III) Farmer Feedback		

3.

Title of FLD	Package demonstration in backyard chicken farming		
Season & Year	All seasons (Perennial)		
Main Problem	High morbidity and mortality in desi backyard chicken		
Main cause of problem	Inappropriate preventive measures taken to the backyard chicken		
Full detail of farmer's Practice	Subsistence feeding and open grazing, no vaccination and supplements		
Name of the Technology	Improved package of practice for profitable backyard chicken		
Full detail of technology to be demonstrated	Vaccination to prevent Ranikhet, fowl pox as per schedule Routine deworming with Piperazine compound and Albendazole Mineral supplements and turmeric powder (w:w :: 1:1) as an immune booster		
Thematic area	Disease management in poultry		
Source of Technology with year	DPD, Hydrabad		
Name of villages	Geri, Chatra, Labalong		
Farming situation	Rainfed farming/ upland		
Area (ha)/Unit (No.)	200 chicken	No. of farmers	10
Performance indicator	(I) Technical indicator- body weight before and after supplementation period, morbidity%, mortality%, egg weight, hatching % (II) Economic indicator- cost of production, gross return, net return and B:C ratio (III) Farmer Feedback		

4.

Title of FLD	Nutritional Garden.
Season & Year	Kharif/ Rabi, 2026

Main Problem	Farmers are growing vegetable with inorganic input in unplanned manner		
Main cause of problem	Low productivity and unawareness regarding balanced nutrition		
Full detail of farmer's Practice	Treated seed/ seedling (Vegetable, Leafy vegetable, Tuber and Fruits plant) + line sowing + vermin compost + organic insecticide		
Name of the Technology	Nutri-garden for balanced nutrition		
Full detail of technology to be demonstrated	Birsa Agricultural University Kanke, Ranchi.		
Thematic area	Nutritional Garden.		
Source of Technology with year	BAU, Ranchi		
Name of villages	Mardanpur, Gariyatu		
Farming situation	Upland/ midland		
Area (ha)/Unit (No.)	0.02ha	No. of farmers	50
Performance indicator	(I) Technical indicator- Production of vegetable Q/ha, Consumption Q/ha, Sailing Q/ha Self life(Days) (II) Economic indicator- Cost of cultivation, Gross income, Net returns & B:C ratio		

5.

Title of FLD	Promotion of oyster mushroom production for nutritional security.		
Season & Year	Rabi, 2026		
Main Problem	Low protein ,Fibre and micro-nutrients in daily diets.		
Main cause of problem	Lack of skill on mushroom production using low cost method.		
Full detail of farmer's Practice	Natural methods (Seasonal)		
Name of the Technology	Oyster mushroom production technique		
Full detail of technology to be demonstrated	Paddy/Wheat Straw sterilization by steaming/ chemical treatment +Mushroom spawn+ Bagging + water spraying as per recommendation		
Thematic area	Nutrition management in rural livelihood		
Source of Technology with year	DMR, Solon (HP) 2022		
Name of villages	Mardanpur, Dariyatu		
Farming situation	Rainfed farming		
Area (ha)/Unit (No.)	200	No. of farmers	10
Performance indicator	(I) Technical indicator- Production (kg/bag), income, profit (II) Economic indicator- B:C ratio (III) Farmer Feedback		

6.

Title of FLD	Demonstration programme on ragi malting flour for value added products.		
Season & Year	Rabi, 2026		
Main Problem	Low protein ,Fibre and micro-nutrients in daily balance diets.		
Main cause of problem	Farm women are not aware to processed ragi flour for value addition		
Full detail of farmer's Practice	Cleaning+ sun drying+ milling		
Name of the Technology	Ragi malting flour for value addition		
Full detail of technology to be demonstrated	Cleaning + soaking (overnight)+ sprouting for 72 hours + sun drying + milling + packaging		
Thematic area	Nutrition management in rural livelihood		
Source of Technology with year	D.Y Patil Agricultural and Technical university, Talsande, Kolhapur, Maharashtra, 2024		
Name of villages	Mardanpur, Dariyatu		
Farming situation	Rainfed farming		
Area (ha)/Unit (No.)	200	No. of farmers	10
Performance indicator	(I) Technical indicator- Storage Period, Acceptability, nutrition value (II) Economic indicator- B:C ratio (III) Farmer Feedback		

3.3 Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	Name of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management								
Resource Conservation Technologies								
Cropping Systems								
Crop Diversification								
Site specific nutrient management								
Integrated Farming								
Water management								
Seed production								
Nursery management								

Integrated Crop Management								
Fodder production								
Production of organic inputs								
Natural farming								
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables								
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
Natural farming								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								

Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management								

Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management	3	30	15	45	30	15	45	90	
Poultry Management	3	15	30	45	15	30	45	90	
Piggery Management									
Goatry management	2	10	10	20	20	20	40	60	
Rabbit Management/goat									
Integrated farming	1	10	5	15	10	5	15	30	
Disease Management	2	0	0	0	30	30	60	60	
Feed management									
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	3	0	30	30	0	60	60	90	
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet	1	0	15	15	0	15	15	30	
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs	2	0	15	15	0	30	30	45	
Storage loss minimization techniques									

Value addition	1	0	15	15	0	15	15	30
Income generation activities for empowerment of rural Women	1	0	15	15	0	15	15	30
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management								
Integrated Disease Management								
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								

Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								

Leadership development								
Group dynamics								
Formation and Management of SHGs/FPOs etc								
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII Others (Pl. Specify)								
TOTAL	**16**	**65**	**150**	**215**	**105**	**235**	**340**	**555**
(B) RURAL YOUTH								
Mushroom Production	2	10	20	30	10	20	30	60
Bee-keeping								
Integrated farming	**2**	10	20	30	10	20	30	60
Seed production								
Production of organic inputs								
Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								

Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition								
Production of quality animal products								
Dairying	2	10	20	30	10	20	30	60
Sheep and goat rearing	1	5	5	10	10	10	20	30
Quail farming								
Piggery	**1**	5	5	10	10	10	20	30
Rabbit farming								
Poultry production	**1**	5	5	10	10	10	20	30
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								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
TOTAL	**25**	**45**	**75**	**120**	**60**	**90**	**150**	**270**
© Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management								

Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
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	**1**	10	0	10	10	0	10	20
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify) Water Management								
TOTAL		**10**	**0**	**10**	**10**	**0**	**10**	**20**
G. Total	**26**	**120**	**225**	**345**	**175**	**325**	**500**	**845**

B) OFF Campus

Thematic Area	**No. of Courses**	**No. of Participants**						
		Others			**SC/ST**			**Grand Total**
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								

Weed Management								
Resource Conservation Technologies								
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management								
Fodder production								
Production of organic inputs								
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables								
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								

Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
IV Livestock Production and Management								
Dairy Management	3	10	5	15	0	10	10	25
Poultry Management	3	10	5	15	0	10	10	25
Piggery Management	3	10	5	15	0	10	10	25
Rabbit Management /goat								
Disease Management	3	10	5	15	0	10	10	25
Feed management								
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	3	10	5	15	0	10	10	25
Design and development of low/minimum cost diet	2	10	5	15	0	10	10	25
Designing and development for high nutrient efficiency diet	2	10	5	15	0	10	10	25
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs	1	10	5	15	0	10	10	25
Storage loss minimization techniques	1	10	5	15	0	10	10	25
Value addition	3	10	5	15	0	10	10	25
Income generation activities for empowerment of rural Women	2	10	5	15	0	10	10	25
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management								
Integrated Disease Management								
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								

Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development								
Group dynamics								
Formation and Management of SHGs(HS)								
Mobilization of social capital								
Entrepreneurial development of farmers/youths (Agro)								
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
XII Others (Pl. Specify)								
TOTAL	**26**	**110**	**55**	**165**	**0**	**110**	**110**	**275**

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management								
Resource Conservation Technologies								
Cropping Systems								

Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management								
Fodder production								
Production of organic inputs								
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables								
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								

Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition								
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								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
Water Management								
TOTAL	**52**							
(C) Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management	2	19	9	28	26	11	37	65
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization	2	27	8	35	34	11	45	80
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								
Any other (Pl. Specify) Water Management	1	17	4	21	23	6	29	50
TOTAL								
G. Total								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs								

Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
IV Livestock Production and Management								
Dairy Management								
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management								
Feed management								
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening								
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition								
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements	7	52	37	89	45	70	115	204
Small scale processing and value addition								
Post Harvest Technology	1	12	8	20	13	17	30	50
VII Plant Protection								
Integrated Pest Management	12	108	84	192	127	121	248	440
Integrated Disease Management	2	27	25	52	28	30	58	110
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production								
Bio-agents production								

Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development								
Group dynamics								
Formation and Management of SHGs								
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
Sponsored training								
TOTAL								
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs								
Integrated Farming								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition								
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								
Fry and fingerling rearing								

Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
TOTAL								
(C) Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
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								
Any other (Pl. Specify)								
Total								
G. TOTAL	**52**	**230**	**280**	**510**	**175**	**435**	**610**	**1120**

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	7	250	150	400	5	5	10	255	155	410
Kisan Mela	01	150	150	300	5	5	10	155	155	310
Kisan Ghosthi	5	150	150	300	5	5	10	155	155	310
Exhibition										
Film Show	10	100	100	200				100	100	200
Farmers Seminar	1	20	10	30	5	5	10	25	15	40
Workshop										
Group meetings										
Lectures delivered as resource persons	10	100	100	200				100	100	200
Newspaper coverage	10									
Radio talks	10									
TV talks	4									
Popular articles	15									
Extension Literature	5									
Advisory Services										
Scientific visit to farmers field	24	60	60	120	0	0	0	60	60	120
Farmers visit to KVK										500
Diagnostic visits	24	60	60	120	0	0	0	60	60	120
Exposure visits	5	60	60	120	0	0	0	60	60	120
Ex-trainees Sammelan										
Soil health Camp	02	100	50	150	0	0	0	100	50	150
Animal Health Camp										

Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	05	200	100	300	5	5	10	205	104	310
Krishi Mohostva										
Krishi Rath										
Pre Kharif workshop										
Pre Rabi workshop										
PPVFRA workshop										
Any Other (Specify)										
Total	**138**	**1350**	**990**	**2340**	**25**	**25**	**50**	**1375**	**25**	**1400**

3.5 Target for Production and supply of Technological products

A) SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
CEREALS			
1	Rice (FS to CS)	CR Dhan-320	60

B) PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS			
SPICES			
VEGETABLES			
1	Tomato Seedling	Meghdoot	2000
2	Brinjal	Arka Nidhi	2000
FOREST SPECIES			
ORNAMENTAL CROPS			
		Total	

C) BIO-PRODUCT

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIO PESTICIDES				
1				
2				

D) LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit

Cattle				
GOAT				
SHEEP				
POULTRY				
Pig farming				
FISHERIES				

3.6 Literature to be Developed/Published

(A) KVK News Letter

Date of start :

Number of copies to be published :

(B) Literature to be developed/published

S.No.	Topic	Number
1	Research paper each scientist	1
2	Technical reports	
3	News letters	
4	Training manual all discipline	1
5	Popular article	
6	Extension literature	4
	Total	**6**

(C) Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette, whatsapp group, mobile app, etc.	Title of the product	Number
1	WhatsApp msgs		100

3.7. Success stories/Case studies identified for development as a case. -

3.8 Indicate the specific training need analysis tools/methodology followed for

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed
01	• Pre and post knowledge test • Group discussion • Personal Contact • Meeting • Personal Interview	• To understand the present knowledge of the farmers • For knowledge technological gap • Solving technological problem • Fulfill the knowledge gap • Knowing the problem

3.9 Indicate the methodology for identifying OFTs/FLDs

For OFT:

i) PRA
ii) Problem identified from Matrix based ranking & analysis
iii) Field level observations
iv) Farmer group discussions
v) Others if any

For FLD:

i) New variety/technology
ii) Poor yield at farmers level
iii) Existing cropping system

iv) Others if any

3.10 Field activities

i. Name of villages identified/adopted with block name (from which year) -

ii. No. of farm families selected per village:

iii. No. of PRA conducted:

iv. No. of technologies taken to the adopted villages

v. Name of the technologies found suitable by the farmers of the adopted villages:

vi. Impact (production, income, employment, area/technological– horizontal/vertical)

vii. Constraints if any in the continued application of these improved technologies

3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab: Functional

1. Year of establishment : 2011-12

2. List of equipment's purchase with amount

Name of the equipment	Quantity	Cost (Rs.)
Atomic Absorption spectrophotometer (AAS 4141) with all accessories.	1	552520
Double beam UV-VIS spectrophotometer (5404 SS) with accessories.	1	230000
Flame Photometer	1	70000
Conductivity meter	1	15000
PH meter	1	15000
Orbital Shaker	3	-
Top leading Balance	1	-
Electronic Balance	1	55500
Hot Air Oven (Drying oven)	1	20000
PC/Date station	1	-
Centrifuge	1	
Super Salient Generator 10 KVA	1	231669
Uniline 5.0 (Five) KVA Online UPS with sealed maintenance Free battery (15 Nos. x 12V 65 AH of amount) & Battery Rack.	1	-

3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	7000	7000	125	
Water				
Plant				
Total				

4.0 LINKAGES

4.1 Functional linkage with different organizations/department

Sl.No.	Name of organization	Nature of Linkage	Outcome of linkage
1.	Birsa Agriculture University, Ranchi	➢ Technological back stopping ➢ Providing breeder and foundation seed ➢ Administration and monitoring.	
2.	ZRS, Palamu	➢ Technological back stopping ➢ Providing breeder and foundation seed ➢ Administration and monitoring.	

3.	District Agriculture department	➢ Organizing vocational training ➢ Joint diagnostic survey ➢ Conduction FLD ➢ Member of SAC	
4.	District forest department	➢ Training ➢ Extension Activities	
5.	District animal husbandry	➢ Training ➢ Extension Activities ➢ Joint diagnostic survey ➢ Veterinary health camp	
6.	District indusTrials development centre	➢ Training to rural touts ➢ Meeting work shop	
7.	Upland rice research station Hazaribag	➢ Member of sale ➢ Input procurement ➢ Exchange of technical knowledge	
8.	DRDA (state govt.)	➢ Intra structural development financial support ➢ Training ➢ Extension activities ➢ Demonstration	
9.	K. V. K. Holycross, Hazaribag	➢ Exchange of scientific information	
10.	Soil conservation department	➢ Soil testing ➢ Training ➢ Resource person	
11.	ATMA, Chatra	➢ Training, Extension activities, Technology assessment and refinement	

4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

S. No.	Programme	Nature of linkage	Outcome of linkage
1	REF Linkage	Training, Extension activities, Technology assessment and refinement.	
2			

5. Utilization of Hostel facilities

S. No.	Programme	No. of days
1		
2		
3		
4		
5		
	Total	**50**

6. Partnership with departments for technology out scaling (proposed):

Annexure -
Training Programme

i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total	Month of training
				M	F	T	M	F	T		
Crop Production											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Horticulture											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Livestock prod.											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Agril. Engg.											
	PF/FW										
	PF/FW										
	PF/FW										
Home Sc.											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Plan prot.											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Fisheries											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Soil Health											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										

i) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total	Month of training
				M	F	T	M	F	T		
Crop Production											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Horticulture											
	PF/FW										

	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Live Stock Production.											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Agril. Engg.											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Home Sc.											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Plant Protection											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Fisheries											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Soil health											
	PF/FW										
	PF/FW										
	PF/FW										

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			SC/ST participants			G.Total	Month of training
				M	F	T	M	F	T		
	Repair and maintenance of farm machinery equipment	Repair and maintenance of 5HP diesel engine pump	7	6	2	8	6	1	7	15	June

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total	
				M	F	T	M	F	T		
On Campus											

iv) Sponsored programme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training progdramme											
			Total								
b) Sponsored research programme											
			Total								
c) Any special programmes											
			Total								

Signature of Senior Scientist & Head