



***KRISHI VIGYAN KENDRA
BOKARO***



ANNUAL REPORT

(April 2019 – December 2019)

**BIRSA AGRICULTURAL UNIVERSITY, KANKE,
RANCHI (JHARKHAND)**

KrishiVigyan Kendra, Bokaro , AT+ P.O.- Petarwar, Dist- Bokaro, Pin- 829121

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PROFORMA FOR ANNUAL REPORT 2019 (1st January-31st December 2019)

1. GENERAL INFORMATION ABOUT THE KVK

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Bokaro P.O.-Petarwar Pin- 829121	06549-265048 (O) 09431126991 (M)	FAX	kvk_bokaro@yahoo.co.in

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

Address	Telephone		E mail
	Office	FAX	
Birsa Agricultural University, Jharkhand, Kanke, Ranchi Pin-834006	(VC) 0651-2450500(O)	0651-2450850	vc@bauranchi.org vc_bau@rediffmail.com
	(DEE) 0651- 2450849 (O)	0651-2450525	deebauranchi@gmail.com

1.3. Name of the Programme Coordinator with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Sri Uday Kumar Singh	09431595179	9431126991	udaysingh72@gmail.com

1.4. Year of sanction of KVK:

(Reference of Sanction Order)

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

1.5. Staff Position (as on 31st March, 2019)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/Others)
1	Sr. Scientist & Head	-	-	-	-	-	-	-
2	Scientist	Sri Uday Kumar	I/C Head & Scientist	Agronomy	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 31780.00	19-07-04	Permanent	Others
3	Scientist	Dr. Anil Kumar	Scientist	Horticulture	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 34490.00	19-07-04	Permanent	Others
4	Scientist	Sri Vinay Kumar	Scientist	Agril. Engg.	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 31780.00	20-07-04	Permanent	Others
5	Scientist	MrsNeena Bharti	Scientist	Plant Protection	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 31780.00	20-07-04	Permanent	ST
6	Scientist	Dr. NandanaKumari	Scientist	Home Science	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 31780.00	19-07-04	Permanent	Others
7	Programme Assistant	Dr. Rupa Rani	Programme Assistant	Horticulture	PB (9300-34800) GP-Rs. 4200.00 Basic- Rs.21250.00	16-03-05	Permanent	Others
8	Computer Programmer	Naman Kandulna	Computer Assistant	-	PB (9300-34800) GP-Rs. 4200.00 Basic- Rs.20300.00	20-07-04	Permanent	ST
9	Farm Manager	-	-	-	-	-	-	-
10		Sunil Kr. Pandey	Audio Visual Aid	-	PB (9300-34800) GP-Rs. 4200.00 Basic- Rs.20300.00		Permanent	Others
11	Accountant / Superintendent	Sri Abhay Kumar Singh	O.S.cum Accountant	-	9300.00		Contractual Staff	Others
12	Stenographer	Sri Ratnesh Kumar Mishra	Stenographer	-	5200.00		Contractual Staff	Others

13.	Driver	Sri RanchandraLo har	Driver	-	5200.00		Contractual Staff	ST
14.	Driver	Sri PanchanandM ahto		-	5200.00		Contractual Staff	Others
15.	Supporting staff	Sri RuplalMarandi		-	4440.00		Contractual Staff	ST
16.	Supporting staff	Sri Durga Prasad Mahto		-	4440.00		Contractual Staff	Others

1.6. **Total land with KVK (in ha)**

S. No.	Item	Area (ha)
1	Under Buildings & Demonstration units and other encroachment	2.0
2.	Under Crops	6
3.	Orchard/Agro-forestry (Mother plant nursery)	1
4.	Technology park	0.4
5.	Pond	0.2
	Unutilized land due to undulating	0.4
	Total	10

Total area should be matched with breakup

1.7. **Infrastructure Development:**

A) Buildings and others

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

									Administration
19.	IT Infrastructure					Completed			I.C.A.R.
20.	Plant diagnostic lab	Not started							I.C.A.R.
21.	Irrigation channel	Not started							I.C.A.R.
22.	Deep boring	Failed							I.C.A.R.
	Others, Please Specify								

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Jeep	2005	431129.00	365000 K.M.	Required to be replaced
Tractor	2006	361200.00	1500 hr	Time to time repairing is needed

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Refrigerator	2007	11990.00	Good	I.C.A.R.
Food processor	2007	4995.00	Good	I.C.A.R.
Commercial gas cylinder	2008	3000.00	Good	I.C.A.R.
Weighing machine	2008	7540.00	Good	I.C.A.R.
Weighing machine	2010	12740.00	Good	I.C.A.R.
Weighing machine	2010	7260.00	Good	I.C.A.R.
Aqua soft dispenser	2012	20000.00	Good	I.C.A.R.
Crown corking machine	2013	19700.00	Good	I.C.A.R.
Tomato Pulpar	2013	29800.00	Good	I.C.A.R.
Screw type Juice Extractor	2013	22000.00	Good	I.C.A.R.
Refractometer	2013	43000.00	Good	I.C.A.R.
b. Farm machinery				
c. AV Aids				
Computer	2006	45000.00	Good	I.C.A.R.
UPS	2006	7000.00	Good	I.C.A.R.
Laser Printer	2006	8000.00	Good	I.C.A.R.
Fax Machine	2006	8000.00	Not installed	I.C.A.R.
Xerox	2007	72000.00	Not functioning	I.C.A.R.
2 KVA Stabilizer	2007	4850.00	Good	I.C.A.R.
Stabilizer 500 VA Manual Auto-cut	2007	1750.00	Good	I.C.A.R.
Camera	2005	12650.00	Good	
Camera	2007	14512.50	Not functioning properly	I.C.A.R.
LCD Projector	2007	51989.00	Good	I.C.A.R.
HAKIM Audio Visual Trolley	2007	8534.00	Good	I.C.A.R.
Projector Screen 8'x6'	2007	7550.00	Good	I.C.A.R.
15Mtrs special imported	2007	7500.00	Good	I.C.A.R.

moulded VGA cable				
Laser pointer torch with duel effect	2007	2200.00	Good	I.C.A.R.
AHUJA Medium Power Amplified -120 Watt	2013	8847.36	Good	I.C.A.R.
AHUJA 2 way compact PA wall Speaker	2013	8694.72	Good	I.C.A.R.
AHUJA Reflex Horn-WFA-21” Bell Dia	2013	986.84	Good	I.C.A.R.
AHUJA Driver unit –Model-AU40XT	2013	1408.77	Good	I.C.A.R.
AHUJA PA Microphone-Model AUD 101XLR	2013	1693.85	Good	I.C.A.R.

D) Farm implements

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

1.8. A). Details SAC meeting* conducted in the year : **Not conducted**

2. District level data on agriculture, livestock and farming situation (2019)

Sl. no.	Item	Information
1	Major Farming system/enterprise	<ol style="list-style-type: none"> 1. Agriculture + Horticulture (Vegetable) + Animal Husbandry 2. Agriculture + Horticulture (Vegetable) 3. Agriculture + Animal Husbandry 4. Agriculture + Horticulture (Vegetable) + Animal Husbandry+ Fishery 5. Agriculture + Horticulture (Vegetable) + Animal Husbandry+ Lac culture 6. Agriculture + Animal Husbandry+ Lac culture 7. Agriculture + Labour
2	Agro-climatic Zone	<p>IV- Central North Eastern Plateau Zone</p> <p>Characteristics:</p> <p>Geographical area of Zone = 41293 K.m² Mining dominates in central part. Damodar, Barakar, More and Ajay are the main rivers of this zone. Damodar basin is famous for coal. This zone is characterized by having humid & sub humid tropical monsoon type of climate. Average rainfall of the zone is 1320 m.m. Monsoon breaks in the second week of June. In normal years pre monsoon rains are received in the month of May about 60 m.m. Apart from this winter rain during December- February is sparse. Soil developed on Rajmahal traps are dark, heavy textured, neutral in reaction and moderately well drained to poorly drained and moderately rich in N but poor in P&K. Soils of Dhanbad&Giridih areas are light textured, moderately to slightly acidic and moderately well drained and poor in N & P and moderate to fairly rich in K. Upland Soils of Ranchi and Hazaribagh areas are gravely to sandy, shallow, acidic and of very poor fertility status where as medium land soil are yellow coloured, slightly to moderate acidic, some what poorly drained & moderately fertile where as the soils of Koderma side are light textured, silty in nature, yellowish to reddish in colour& neutral to moderately acidic in reaction. These are poor to moderate in N, poor in available P and rich to very rich in K. Very limited irrigation potential has been exploited in this zone. Although it is claimed that 8-9% area is irrigated. Larger part of agricultural land is rainfed. Less than 55% area comes under net cultivated area. Good forest is available on 12-13 percent land. Rice, maize, wheat, potato, linseed, rapseed and mustard, til, niger, ground nut and vegetables are major crops of the region.</p> <p>Climate of the Bokaro district is sub humid with water deficiency in winter. Temperature ranges from 2⁰C in winter to 45⁰C in hot summer. The</p>

		<p>main drainage system is Damodar&Swarnrekha rivers. Only 5-8% of net sown area is irrigated. The average annual rainfall of the district is 1275 mm. Upland soils are red to brownish red in colour, light textured, well drained, acidic in reaction and poor in organic carbon, N, Ca, Mg., P & S. Medium land soils are yellow, yellowish in colour, light to medium texture, moderately acidic and poor in N, Ca, Mg and organic matter. Whereas the low land soils are gray to grayish in colour, heavy textured, neutral to slightly alkaline in reaction, poorly drained and medium in N and organic matter. The major crops of the district are rice, maize, wheat, potato, lentil, linseed, rapseed& mustard, groundnut, potato and vegetables like ladys finger, tomato, brinjal, 10rench bean, raddish, cauliflower, cabbage & cucurbits.</p>			
3	Agro ecological situation	<ol style="list-style-type: none"> 1. Red sandy loam, gravely undulating topography with mines and forests: Undulating topography, having red sandy loam soil, full of gravels, covered with perennial forests, having mines 2. Sandy loam rainfed: Upland sandy loam soil, no irrigation facility, agriculture only depend on rain water 3. Sandy loam irrigated: Medium land, sandy loam soil, having irrigation facility 4. Clay loam rainfed :Low land, clay loam soil, agriculture depend only rain water 			
4	Soil type	<ol style="list-style-type: none"> 1. Stony and gravely soil: Found in the foot hill prone to intensive erosion low water holding capacity highly acidic low in fertility status and organic matter content only suitable for pasture and recreation purpose. 2. Light texture soil (Sandy soil) : Found in upland, coarse texture soil, highly acidic in reaction, low water holding capacity, low in organic matter content and poor in fertility status, rich in micronutrient except Boron and Molybdenum, prone to erosion. 3. Medium texture soil (Loamy soil): Found in medium land, soil texture is mainly sandy loam to sandy clay loam, soils are moderately acidic, poor in fertility status and low in organic matter content and water holding capacity is moderate. 4. Fine textured soil (Clayey soil) : Heavy texture soil , found in low land, soils are fairly acidic to neutral in reaction, water holding capacity is high, organic matter content is medium and moderate in fertility status. 			
5	Productivity of major 2-3 crops under cereals,	Crop			Productivity (q /ha)
		Paddy (Hybrid)			40.00

	pulses, oilseeds, vegetables, fruits and others	Paddy(HYV)		28.00
		Wheat		17.10
		Maiz		16.00
		Arhar		07.20
		Gram		08.25
		Mustad		6.2
		Groundnut		7.5
		Niger		2.1
		Brinjal		259.0
		Tomato		281.0
		Cauliflower		274.0
		Cucurbitaceous		160-200
6	Mean yearly temperature, rainfall, humidity of the district	Mean yearly rainfall- 1130 mm		
7	Production of major livestock products like milk, egg, meat etc.			

2.6 (a) Details of operational area / villages (2019)

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified(Crop wise)	Identified Thrust Area
1.	Bermo	Petarwar	Ambadih, Chargi, Jaruatn, Bundu, Lukaiya, Koh, Jaradih, Itke, Chanpi, Angwali, Kojram, Rukam etc.	Paddy Maize Groundnut Vegetables Potato Sweet potato Onion Mustard Poultry Goatry	1. Low productivity in cereals & pulses 2. Low profitability in vegetable cultivation 3. Low productivity in poultry & goatry	1. Introduction of high yielding and hybrid varieties of paddy 2. INM & IPM in paddy 3. Introduction of disease resistant variety of vegetable specially in tomato & brinjal 4. Introduction high yielding variety of Arhar gram, groundnut, mustard and Niger 5. Management of soil acidity through furrow
2.	Bermo	Kasmar	Durgapur, Raghunathpur, Madhukarpur, Mayapur, Kurko, Chandipur, Baraikala, Ranitanr, Manjura, Rangamati, Hisim, Kedla.	Paddy Maize Wheat Arhar Gram Niger Mustard Groundnut Vegetable Potato Sweet potato	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry	

				Lac Poultry Goatry	4. Low productivity in oilseed crops 5. Low productivity in lac	application of lime and sweet potato cultivation with integrated nutrient management
3.	Bermo	Gomia	Saram, Dhedhe, Tulbul, Mahuatanr, Lalpaniya, Kander	Paddy Vegetable Maize Wheat Arhar Niger Mustard Sweet potato Poultry Goatry Lac	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in oilseed crops 5. Low productivity in lac	6. Income generation activity for rural youth & farm women 7. Rain water harvesting. 8. INM & IPM 9. Post harvest management, marketing & value addition 10. Farm mechanization 11. Introduction of high yielding variety of maize and wheat with integrated crop management
4.	Bermo	Bermo	Jaridih, Govindpur	Paddy Maize Arhar Niger Vegetable Potato Lac Goatry	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in lac	12. Moisture conservation and micro irrigation system 13. Breed improvement in goatry and piggery 14. Disease and feed management in poultry and goatry
5.	Bermo	Chandrapura	Taranari, Narra, Telo, Jarua, Kurumba, Paranga	Paddy Maize Arhar Vegetable Potato Lac Poultry	1. Low productivity in cereals & pulses 2. Low profitability in vegetable	15. Organic vegetable cultivation 16. Popularization of sweet corn and baby corn

				Goatry	<p>crops</p> <p>3. Low productivity in poultry & goatry</p> <p>4. Low productivity in lac</p>	<p>17. Popularization of low volume high value vegetable crops such as broccoli, colour capsicum,</p>
6.	Bermo	Nawadih	Alargo, Bhalmara, Chapri, Narayanpur, Penk, Kothi	<p>Paddy</p> <p>Maize</p> <p>Arhar</p> <p>Niger</p> <p>Vegetable</p> <p>Potato</p> <p>Lac</p> <p>Poultry</p> <p>Goatry</p> <p>Piggery</p>	<p>1. Low productivity in cereals & pulses</p> <p>2. Low profitability in vegetable crops</p> <p>3. Low productivity in poultry, goatry & piggery</p> <p>4. Low productivity in oilseed crops</p> <p>5. Low productivity in lac</p>	<p>18. Popularization of mushroom production</p>
7.	Chas	Chas	Dharmapura, Pokhanna, Jhopro, Ulgoda, Pindrajora, KasiJharia,	<p>Paddy</p> <p>Maize</p> <p>Wheat</p> <p>Arhar</p> <p>Gram</p> <p>Mustard</p> <p>Vegetable</p> <p>Poultry</p> <p>Goatry</p> <p>Lac</p>	<p>1. Low productivity in cereals & pulses</p> <p>2. Low profitability in vegetable crops</p> <p>3. Low productivity in poultry & goatry</p> <p>4. Low productivity in oilseed crops</p> <p>5. Low productivity in lac</p>	
8.	Chas	Chandankiyari	Chandankiyari, Bansgari, Lanka, Machatanr, Siyaljori,	<p>Paddy</p> <p>Maize</p> <p>Groundnut</p>	<p>1. Low productivity in cereals &</p>	

			Bermo	Vegetables Potato Poultry Goatry	pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in oilseed crops 5. Low productivity in lac	
9.		Jaridih	Tilaiya, Bhaski, Beldih, Araju, Gangjori, Pichri	Paddy Maize Wheat Arhar Gram Mustard Vegetable Poultry Goatry	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in oilseed crops 5. Low productivity in lac	

(b) Details of village adoption programme:

Name of the villages adopted by Sr. Scientist & Head and Scientist in 2019 for its development and action plan

Name of village	Block	Action taken for development
Raghunathpur	Kasmar	Base line survey is completed for knowing the existing condition of the village. Problems have been identified and accordingly some steps have been taken through our mandated activities. Scientists
Chandipur	Kasmar	
NauajaraJaruatnr	Petarwar	
Manjura	Kasmar	
Koh	Petarwar	
Ambadih	Petarwar	

		are regularly visiting these adopted villages and providing timely advice for crops related problems.
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(c) SansadAdarsh Gram Yojona

- i) Name of the village under SansadAdarsha Gram Yojona:
Kochakuli, Panchayat- Pichri, Block- Petarwar

2.7 Priority thrust areas

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

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
1000 (Seed Hub)	640	3400	1000 (Marigold)
116	37.80		

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement

* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper							
Seminar/conference/symposia papers							
Books							
Bulletins							
News letter							
Popular Articles							
Book Chapter							
Extension Pamphlets/literature							
Technical reports							
Electronic Publication (CD/DVD etc)							
TOTAL							

1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Assessment of different pretreatments of drying with respect to quality of dried peas.
2.	Problem diagnosed	Low profitability due to sale at very low price in peak season.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<p>F.P. :- Direct sale of sundried shelled peas after keeping for home consumption and normal sale.</p> <p>T.O.1:- Steam blanching of shelled peas for 3-4 minutes and after keeping in 0.5% KMS solution for 10 minutes, sun drying is done.</p> <p>T.O. 2:- Blanching of shelled peas in boiling water for 2-3 minutes containing 0.5% KMS solution, 0.1% sodium bicarbonate and 0.1% Magnesium Oxide.</p>
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IARI, New Delhi
5.	Production system and thematic area	Irrigated Medium land and Post Harvest Technology
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Post Harvest Technology

Problem definition: Low profitability due to sale at very low price in peak season.

Technology assessed: Refinement

Table: 1. Findings of pretreated sun dried shelled peas

Parameters	Wt. of fresh shelled peas (kg)	Technology used in treatments	Time of blanching (in minutes)	Time taken in sun drying (days)	Wt. of sun dried shelled peas	Drying ratio	Colour of sun dried peas	Weight loss/moisture loss	Remarks
Technology Option									
PF- Direct sale of sundried shelled peas after keeping for home consumption and normal sale.	5 kg	Only open sun drying	-	3 days	1342.69 g	3.72:1	Light green	Weight loss/moisture loss is more	Colour is faded from dark green to dull light green
T.O.-1: Steam blanching of shelled peas for 3-4 minutes and after keeping in 0.5% KMS solution for 10 minutes, sun drying is done.	5 kg	Sulphiting & then steam blanching	3 minute	4 days	1714.14 g	2.91:1	Dark green	Weight loss/moisture loss is less	Colour is maintained
T.O.-2: Blanching of shelled peas in boiling water for 2-3 minutes containing 0.5% KMS solution, 0.1% sodium bicarbonate and 0.1% Magnesium Oxide.	5 kg	Blanching in chemically treated boiling water	3 minute	4 days	1547.77 g	3.23:1	Dark green	Weight loss/moisture loss is least	Colour is maintained

Table: 2. Economics involved in pretreatment of shelled peas

Parameters	Wt of fresh shelled peas	Price of fresh shelled peas (Rs./kg)	Cost of used chemicals & fuels	Gross cost of inputs (Rs.)	Gross cost of pretreated shield peas per kg	Market price of processed shelled peas (Rs./kg)	Output (in g)	Gross income per kg	B:C ratio	Net income	
										Per kg	Per quintal
PF- Direct sale of sundried shelled peas after keeping for home consumption and normal	5 kg	Rs. 20/kg	-	100	Rs. 20/kg	Rs. 56/kg	1342.60	75.15	$75.15/20=3.75$	19.15	1915

sale.											
T.O.-1: Steam blanching of shelled peas for 3-4 minutes and after keeping in 0.5% KMS solution for 10 minutes, sun drying is done.	5 kg	Rs. 20/kg	35	135	Rs. 27/kg	Rs. 90/kg	1714.14	154.26	$154.26/27=5.71$	64.26	6426
T.O.-2: Blanching of shelled peas in boiling water for 2-3 minutes containing 0.5% KMS solution, 0.1% sodium bicarbonate and 0.1% Magnesium Oxide.	5 kg	Rs. 20/kg	46	146	Rs. 29.2 /kg	Rs. 95/kg	1547.77	146.49	$146.49/29.20 = 5.01$	51.49	5149

Results: Technology option 1: Steam blanching of shelled peas for 3-4 minutes and after keeping in 0.5% KMS solution for 10 minutes, sun drying is done.
This technology option found best with respect to net income and B:C ratio.

OFT-2

1.	Title of On farm Trial	Assessment of preparation methods of squash from ripe jack fruit.
2.	Problem diagnosed	Jack fruit is heavily produced in local area of Bokaro district but not properly utilized due to lack of processing knowledge.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	F.P. :Local people consume jack fruit as pickle and vegetable. T.O.1: Preparation of squash from ripe jack fruit. Formulation - Ingredients Jack fruit juice- 250 ml, Sugar – 340g, Citric acid 11.5g, Water- 385 ml, KMS- 0.6g T.O. 2: Preparation of squash from ripe jack fruit and mango juice. Formulation - Ingredients Well ripened jack fruit juice – 250 ml, Mango juice - 250 ml, sugar - 500g, water - 300ml, Citric acid- 10g.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	
5.	Production system and thematic area	Rainfed Upland and Value Addition
6.	Performance of the Technology with performance indicators	
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Value Addition

Problem definition: Jack fruit is heavily produced in local area of Bokaro district but not properly utilized due to lack of processing knowledge.

Technology assessed: Assessed

Table: Nutritive value of all three food produced per 100 unit belonging to all three treatments

Nutrients Tech. Option	Protein (g)	Fat (g)	Mineral (g)	Fiber (g)	CHO (g)	Calcium (mg)	Iron (µg)	Carotene (µg)	Vit.C (mg)
Local people consume jack fruit as pickle and vegetable.	1.9	0.1	0.9	1.1	19.8	20	0.5	175	7
Preparation of squash from ripe jack fruit.	1.00	0.005	0.94	0.07	881.36	107.52	0.03	11.16	0.44
Preparation of squash from ripe jack fruit and mango juice.	1.09	0.05	1.03	0.08	972.47	9.84	0.08	142.30	1.11

Result: Technology option 2 is found best in taste, colour, flavor and appearance and overall acceptability.

OFT-3

1.	Title of On farm Trial	Mango based intercropping in newly established orchard in kharif season.
2.	Problem diagnosed	No income from newly established orchard in kharif season.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	F.P. :- Mango sole (Spacing- 5 m) T.O.1:- Mango + Horse gram (1:10) T.O. 2:- Mango+ Black gram (1:10) T.O.3:- Mango+ Green gram (1:10) Mango- Variety : Amrapali
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR, RCER, Ranchi
5.	Production system and thematic area	Rainfed Upland and Management of young orchard
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Management of young orchard

Problem definition: No income from newly established orchard in kharif season.

Technology assessed: Assessed

Table:1Effect of intercrop on vegetative growth of mango and yield of intercrop.

Technology option	No. of trials	Plant height (m)	Plant canopy (m ²)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
F.P. :- Mango sole (Spacing- 5 m)	10	1.68	1.52	-	-	-	-	-
T.O.1:- Mango + Horse gram (1:10)		1.94	1.75	4.6	9000	22500	13500	2.5
T.O. 2:- Mango+ Black gram (1:10)		1.98	1.82	6.2	11000	37200	26200	3.38
T.O.3:- Mango+ Green gram (1:10)		2.05	1.86	6.5	11000	39000	28000	3.54

Table:2 Effect of intercrop on soil status (Pre & Post)

Soil test report	PH	OC	N(kg/ha)	P(kg/ha)	K (kg/ha)
Pre Soil test report	4.5	0.20	182.4	9.23	106.8
Post Soil test report	5.5	0.32	214.8	10.42	118.52

Results:

Technology option 3 is found superior over T.O-2 and T.O-1

OFT-4

1.	Title of On farm Trial	Assessment of sowing date with Low cost poly tunnel in cucumber cultivation in off season.
2.	Problem diagnosed	Low profitability due to low selling price of cucumber in peak season
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	F.P. :- Direct sowing of cucumber in March-April T.O.1:- Cucumber in the month of January, sowing in ditch covered with plastic upto 7-10 days upto germination. T.O. 2 :- Growing of cucumber seedling in the month of December with low cost poly tunnel upto 20-25 days.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR, RCER, Ranchi
5.	Production system and thematic area	Irrigated Medium land and Protected cultivation
6.	Performance of the Technology with performance indicators	Standing crop
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Protected cultivation

Problem definition: Low profitability due to low selling price of cucumber in peak season

Table: 1

Results:

Results: Technology option 2: Pigeon pea + Lady's finger (1:1) is most effective with respect to pigeon pea equivalent yield, Net return and B:C ratio.

OFT-6

1.	Title of On farm Trial	Effect of nutrient management on productivity of onion.
2.	Problem diagnosed	Low yield of onion.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	F.P. :- 40 kg N+ 20 kg P ₂ O ₅ T.O.1:- Farmers practice + 50% recommended dose of K (30 kg K ₂ O/ha) T.O. 2 :- 100% RDF (100:60:60 kg NPK/ha) + 20 kg Sulphur/ha
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	BAU, Ranchi
5.	Production system and thematic area	Irrigated Medium land and Nutrient Management
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	Technology option 2- 100% RDF (100:60:60 kg NPK/ha) + 20 kg Sulphur/ha is found best treatments with respect to fresh bulb yield, Net return and B:C ratio.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Nutrient Management

Problem definition: Low yield of onion.

Table: 1 Effect of nutrient management on productivity of onion.

Technology option	Plant height (cm)	Leaves/plant (Nos.)	Bulb wt. (g)	Fresh bulb yield (q/ha)	Cost of cultivation Rs./ha	Gross return Rs./ha	Net return Rs./ha	B:C ratio
F.P. :- 40 kg N+ 20 kg P ₂ O ₅	40.5	5.8	42.5	184	58000	184000	126000	3.2
T.O.1:- Farmers practice +	43.6	6.4	54.2	202	58500	202000	143500	3.4

50% recommended dose of K (30 kg K ₂ O/ha)								
T.O. 2 :- 100% RDF (100:60:60 kg NPK/ha) + 20 kg Sulphur/ha	53.5	6.8	68.5	248	64500	248000	183500	3.9

Results: Technology option 2- 100% RDF (100:60:60 kg NPK/ha) + 20 kg Sulphur/ha is found best treatments with respect to fresh bulb yield, Net return and B:C ratio.

OFT-7

1.	Title of On farm Trial	Assessment of Weed control methods on yield and economics of transplanted rice (<i>Oryza sativa</i>).
2.	Problem diagnosed	Low yield of rice due to heavy weed infestation. Major weeds are identified in rice field, <i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Cynodondactylon</i> under grasses, <i>Eclipta alba</i> , <i>Celosia argenticornis</i> , <i>Ammanibacifera</i> , <i>Commelina</i> spp, <i>Panicum</i> and <i>Cyperus difformis</i> , <i>C. iria</i> , <i>C. rotundus</i> , <i>Fimbristylis miliacea</i> under Sedges.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	F P: One hand weeding at 35-40 DAT. TO1- Pretilachlor 50 EC @ 0.75 kg a.i / ha as PE +One hand weeding at 35-40 DAT. TO2- Bispyribac 10 SC @ 25g a.i /ha PoE at 20 DAT +One hand weeding at 35-40 DAT. TO3- Pretilachlor 50 EC @ 0.75 kg a.i / ha as PE + Bispyribac 10 SC @ 25g a.i /ha PoE at 20 DAT
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	BAU, Ranchi
5.	Production system and thematic area	Rainfed Mediumland and Weed Management
6.	Performance of the Technology with performance indicators	-
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Weed Management

Problem definition: Low yield of rice due to heavy weed infestation.

Table: 1

Results:

OFT-8

1.	Title of On farm Trial	Assessment of different sowing methods on wheat yield.
2.	Problem diagnosed	Low yield of wheat due to improper sowing method.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	F.P. :-Conventional method (wheat sowing behind the plough) T.O.1 :- Sowing with seed drill. T.O.2 :- Sowing with zero tillage machine.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	BAU, Ranchi
5.	Production system and thematic area	Irrigated Mediumland and Farm Mechanization
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	Technology option -2 Sowing with zero tillage machine was found most effective in different sowing method in wheat yield.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Farm Mechanization

Problem definition: Low yield of wheat due to improper sowing method.

Table: 1 – Effect of different sowing method in wheat yield.

Technology option	Moisture content of soil before sowing	Plant Population after 21 days	Effective tiller/m ²	No. of grain/ear head	Yield q/ha	Cost of cultivation Rs./ha	Gross income Rs./ha	Net income Rs./ha	B:C ratio
F.P. :- Conventional method (wheat sowing behind the plough)	12.40	180	270	38.2	26.1	29500	76200	46700	2.37
T.O.1 :- Sowing with conventional seed drill.	12.60	186	281	42.6	28.6	28000	85200	57200	3.04
T.O.2 :- Sowing with zero tillage machine.	16.80	165	289	45.0	33.3	25000	90000	65000	3.6
CD			7.86	4.6	1.72				

Cost of wheat Rs. 20/kg

Results: Technology option -2 Sowing with zero tillage machine was found most effective in different sowing method in wheat yield.

OFT-9

1.	Title of On farm Trial	Assessment of Irrigation methods in single and paired row potato cultivation.
2.	Problem diagnosed	Low irrigation water use efficiency in potato cultivation.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	F.P. :- Single row potato planting with furrow Irrigation T.O.1 :- Single row potato planting with Skip Irrigation (Alternate skip) T.O.2 :- Double row potato planting with furrow Irrigation
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	IARI, New Delhi
5.	Production system and thematic area	Irrigated Medium land and Water Management
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	Technology option 1 single row potato planting with skip irrigation is found best treatment with respect to yield, net profit and inform of water saving. Therefore, single row potato planting with alternate furrow (skip) irrigation is recommended.
8.	Constraints identified and feedback for research	Some problems comes to put soil on double row potato planting with furrow irrigation.
9.	Process of farmers participation and their reaction	Personal contact. Farmers are satisfied with single row potato planting with alternate furrow irrigation.

Thematic area: Water Management

Problem definition: Low irrigation water use efficiency in potato cultivation.

Table: 1- Performance of technology with performance indicator.

Technology option	Total water used m ³ /ha	Water saving over FP(%)	Yield q/ha	Cost of cultivation Rs./ha	Gross return Rs./ha	Net return Rs./ha	B:C ratio
F.P. :- Single row with furrow Irrigation	1280	-	155	70000	232500	162500	3.32
T.O.1 :-	832	35	192	70000	288000	218000	4.11

Single row with Skip Irrigation							
T.O.2 :- Double row planting on raised bed with furrow Irrigation	1024	20	181	70000	271500	201500	3.87
CD5%	186.7	9.43					

Results: Technology option 1 single row potato planting with skip irrigation is found best treatment with respect to yield, net profit and B: C ratio. Therefore, single row potato planting with alternate furrow (skip) irrigation is recommended.

OFT-10

1.	Title of On farm Trial	Management of late blight of potato in rabi season.
2.	Problem diagnosed	Low productivity of potato due to late blight disease.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	F P: Foliar spray of Mancozeb75% @ 2g/l water after initiation of symptom. TO1- Mancozeb+ Carbendazin @ 2g/l water at 25 DAS TO2- 2 spray of Metalaxyl 81% + Mancozeb 72% wp @ 2g/l water at 15 days interval from 30 th day of planting.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	BAU, Ranchi
5.	Production system and thematic area	Irrigated Mediumland and Diseases Management
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	Technology option ii 2 spray of Metalaxyl 81% + Mancozeb 72% wp @ 2g/l water at 15 days interval from 30 th day of planting was found most effective in reducing late blight of potato in Yield & B:C ratio.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Diseases Management

Problem definition: Low productivity of potato due to late blight disease.

Table: 1 Effect of different fungicide against late blight of potato.

Technology option	Disease %	Yield(q/ha)	Cost of cultivation(Rs./ha)	Gross income(Rs./ha)	Net return(Rs./ha)	B:C ratio
FP- Foliar spray of Mancozeb75% @ 2g/l water after initiation of symptom.	28.23	65	67000	130000	63000	1.94

TO1- Mancozeb+	22.45	135	67400	270000	202600	4.0
TO1- Mancozeb+ Carbendazin @ 2g/l water at 25 DAS						
TO2- 2 spray of Metalaxyl 81% + Mancozeb 72% wp @ 2g/l water at 15 days interval from 30 th day of planting.	11.25	188	72600	376000	303400	5.17
CD 5%	3.24	3.96				

Results: Technology option ii 2 spray of Metalaxyl 81% + Mancozeb 72% wp @ 2g/l water at 15 days interval from 30th day of planting was found most effective in reducing late blight of potato in Yield & B:C ratio.

OFT-11

1.	Title of On farm Trial	Management of pod borer in pigeonpea.
2.	Problem diagnosed	Low productivity of pigeonpea due to heavy infestation of pod borer.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	F P: Use of Chlorpyrifos 20 EC 1.5ml/l water as per appearance of larva. TO1- 2 spray of Indoxacarb 15.8% EC @ 0.5 ml/l water 1 st spray at 50% flowering and 2 nd spray at 15-20 days after 1 st spraying. TO2 -2 spray of Chlorantraniliprole 18.5% SC 1ml/3l water + Bt var. kurstaki 2g/l water. 1st spray at 50% flowering and 2 nd spray at 15-20 days after 1 st spraying.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	BAU, Ranchi
5.	Production system and thematic area	Rainfed Upland and Integrated Pest Management
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	TO2 -2 spray of Chlorantraniliprole 18.5% SC 1ml/3l water + Bt var. kurstaki 2g/l water. 1st spray at 50% flowering and 2 nd spray at 15-20 days after 1 st spraying was found most effective in reducing pod damage .
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Integrated Pest Management

Problem definition: Low productivity of pigeon pea due to heavy infestation of pod borer.

Table: 1 Management of pod borer in pigeon pea.

Technology option	Disease %	Yield(q/ha)	Cost of cultivation(Rs./ha)	Gross income(Rs./ha)	Net return(Rs./ha)	B:C ratio
F P: Use of Chlorpyrifos 20 EC 1.5ml/l water as per appearance of larva.	17.64	8.21	17840	41050	23210	1.3
TO1- 2 spray of Indoxacarb 15.8% EC @ 0.5 ml/l water 1 st spray at 50% flowering and 2 nd spray at 15-20 days after 1 st spraying.	13.24	11.33	17980	56650	38670	2.1
TO2 -2 spray of Chlorantraniliprole 18.5% SC 1ml/3l water + Bt var. kurstaki 2g/l water. 1st spray at 50% flowering and 2 nd spray at 15-20 days after 1 st spraying.	12.14	13.62	18200	68100	49900	2.7
CD 5%	3.32	2.7				

Results: **TO2** -2 spray of Chlorantraniliprole 18.5% SC 1ml/3l water + Bt var. kurstaki 2g/l water. 1st spray at 50% flowering and 2nd spray at 15-20 days after 1st spraying was found most effective in reducing pod damage .

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during 2019

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration								Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total		
						M	F	M	F	M	F	M	F	
1.	Rice	Crop Production	Variety-Sahbhagi, Line sowing, seed treatment	05	05							11	11	
4.														

Details of farming situation

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

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

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

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

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

** BCR= GROSS RETURN/GROSS COST

Pulses

Frontline demonstration on pulse crops

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

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

** BCR= GROSS RETURN/GROSS COST

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Rice	Crop Production	Variety-Sahbhagi, Line sowing, seed treatment	11	5.0	26.7	21.2	24.2			23600	48060	24460	2.03	21800	38160	16360	1.75
Total																	

Livestock

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

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

** BCR= GROSS RETURN/GROSS COST

Fisheries

FLD on Milk Processing (Preparation of Malai Chop)

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Technical parameter	Check	Demo (Malai Chop)	Net Profit	B:C ratio
Milk	Processing	Secondary Processing	16 OTH	1. Total cost 2. Shelf Life (at Room temp) 3. Mode use 4. Comfort for doing business	Rs. 1230.00 4-5 hors As row ingredients for sweets, deserts, paneer& also for drinking purpose Difficult	112PCs 112 pcsx5= 2800.00 2 days As sweet & Desert Easy in transport	2800- 1230 = Rs. 1570	2.27

FLD on Sweet potato based GulabJamun preparation

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Technical parameter	Check	Demo (Sweet potato based GulabJanum)	Net Profit	B:C ratio
Sweet Potato	Value addition	Secondary processing	40 OTH	(i) Total cost (ii) Shelf life (at room temp.) (iii) Mode of consumption (iv) Comfort in doing business	3810.00 2-3 month Consumed only just either by roasting or by boiling Difficult that's why sold from farm at very less price i.e Rs. 10/kg	720 pc x Rs. 10/pc= 7200 2-3 days in winter season Consumed as sweet in all occasion Easy in transport & doing business sold at everywhere at least Rs. 600/kg	3390	7200/3810=1.88

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% decrease in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit)			
					Demonstration	Check		Demo	Check	Increase in man days		Demo	Check	Cost saving Rs./ha	Cost saving %
Drumseeder	Paddy-Lalat	Use of drum seeder for paddy cultivation	6	4	0.04	0.004	90.0	03	30	90		22300	28100	5800	20.64

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

** BCR= GROSS RETURN/GROSS COST

Extension and Training activities under FLD

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

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif2019 and Rabi 2020:

A. Technical Parameters:

Oilseed:

Sl No.	Crop	Variety	Existing (Farmer's) Yield (q/ha)	Yield (q/ha) w.r.t.			Area in ha	No. of Farmers	Yield Obtained (q/ha)				Yield Gap Minimized (q/ha) (%)		
				District yield (D)	State Yield (S)	Potential Yield (P)			Max.	Min	Av.	% Increase	D	S	P
1.	Groundnut	K-6	10.6	7.5	9.92	20	7	23	16.5	10	14.2	34	89	43	(-) 29
		Girnar-3	10.6	7.5	9.92	18	3	7	16.5	10	12.8	20	70	29.2	(-) 28.8
2.	Sesame	GT-9	3	3.2	3.76	8	10	35	6.2	3.4	4.8	60	50	21.6	(-) 40
3.	Niger	Puja-1	3.2	2.5	3.17	7	10	29	6	3.8	5.6	75	124	76.6	(-)20
4.	Mustard	P-26	5.5	6.0	3.7	12	10	27	10.4	6.2	8.8	60	46	138	(-)100
5.	Mustard (Additional)	P-26	5.5	6.0	3.7	12	90	220	10.8	6.0	8.2	49	37	121	(-)32
6.	Mustard (Additional)	P-30	5.5	6.0	3.7	16.5	30	68	11.7	6.8	9.4	70.9	56.6	154	(-)43
7.	Linseed	Priyam	4.2	3.0	1.2	12	10	27	7.6	5.2	6.5	54.7	116	441	(-)45

B. Economic parameters

Sl. No.	Crop	Variety	Farmer's Plot					Demonstration Plot						
			Technology demonstrated	Existing (Farmer's) variety name	Gross Cost (Rs/ha)	Gross Return (Rs./ha.)	Net Return (Rs./ha.)	B:C Ratio	Technology demonstrated	Demonstrated Plot (variety name)	Gross Cost (Rs/ha)	Gross Return (Rs./ha.)	Net Return (Rs./ha.)	B:C Ratio
1.	Groundnut	TG-37A	Seed, fertilizer	Local Moongfali	21000	53000	32000	2.5	TG-37A , Line Sowing	K-6	24500	71000	46500	2.89
		Girnar-3	Seed, fertilizer	Local moongfali	21000	53000	32000	2.5	Girnar-3, Line Sowing,	Girnar-3	24500	64000	39500	2.6
2.	Sesame	GT-9	Seed, fertilizer	Local Til	10500	24000	13500	2.28	GT-9, Line sowing, Seed treatment, Sulphur, Pest & Disease management	GT-9	13500	38400	24900	2.8
3.	Niger	Puja-1	Seed, fertilizer	Local Surguja	8500	16000	7500	1.88	Puja-1, Line sowing, Seed treatment	Puja-1	11000	28000	17000	2.5
4.	Mustard	P-26	Seed, fertilizer	Lotni	11500	24750	13250	2.1	P-26, Line sowing, Sulphur, pest & disease management	P-26	14500	39600	25100	2.73
5.	Mustard (Additional)	P-26	Seed Fertilizer	Lotni	11500	24750	13250	2.1	P-26, Line sowing, Sulphur, pest & disease management	P-26	14500	36900	22400	2.5
6.	Mustard (Additional)	P-30	Seed Fertilizer	Lotni	11500	24750	13250	2.1	P-30, Line sowing, Sulphur, pest & disease management	P-30	14500	42300	27800	2.92

7.	Linseed	Priyam	Seed	Local	9000	16800	7800	1.86	Var- Priyam, Line sowing, Sulphur, pest & disease management	Priyam	11000	26000	15000	2.4
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C. Socio-economic impact parameters

Sl. No.	Crop	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1.	Groundnut	K-6 , Line Sowing, Seed treatment	10000	316	50	2100	2000	Education, Health, Daily expenses	55
		Improved variety Girnar-3, Line Sowing, Seed treatment	3800					Education, Health, Daily expenses	55
2.	Sesame	GT-9, Line sowing, Seed treatment	4800	108	80	480	400	Education, Health, Daily expenses	40
3.	Niger	Puja-1, Line sowing, Seed treatment	5600	170	50	300	260	Education, Health, Daily expenses	45
4.	Mustard	P-26, Line sowing, Sulphur, pest & disease management							
5.	Linseed	Var- Priyam, Line sowing, Sulphur, pest & disease management							
		Var- Divya, Line sowing, Sulphur, pest & disease management							

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Crop	Technologies demonstrated (with name)	Farmers' Perception parameters					Suggestions, for change/improvement, if any
			Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	
1.	Groundnut	Improved variety K-6 , Line Sowing, Seed treatment	Yes	Yes	70%	No	Yes	Good variety
		Improved variety Girnar-3, Line Sowing, Seed treatment	Yes	Yes	70%	No	Yes	Good variety
2.	Sesame	GT-9, Line sowing, Seed treatment	Yes	Yes	75%	No	Yes	Good variety
3.	Niger	Puja-1, Line sowing, Seed treatment	Yes	Yes	85%	No	Yes	Good variety
4.	Mustard	P-26, Line sowing, Sulphur, pest & disease management						
5.	Linseed	Var- Priyam, Line sowing, Sulphur, pest & disease management						

		Var- Divya, Line sowing, Sulphur, pest & disease management						
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E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended

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

H. Farmers' training photographs

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

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input			
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)			
	iv)Publication of literature			
	Total			

A. Technical Parameters:

Pulses:

Sl No.	Crop	Variety	Existing (Farmer's) Yield (q/ha)	Yield (q/ha) w.r.t.			Area in ha	No. of Farmers	Yield Obtained (q/ha)				Yield Gap Minimized (q/ha) (%)		
				District yield (D)	State Yield (S)	Potential Yield (P)			Max.	Min	Av.	% Increase	D	S	P
1.	Pigeon pea	IPA-203	9.5	7	7.5	18	10	30							
2.	Black gram	WBU-109	6.5	5.5	6.19	14	10	29	12.4	7.2	10.4	60	89	68	(-) 28.2
3.	Green gram	HUM-12	6	5.5	6.19	12	10	35	10.8	6.8	9.7	61	76	56.7	(-)19
4.	Horse gram	Birsa Kulthi-1	4.5	4	4.5	9	10	35	8.6	6.2	7.6	68.9	90	68.8	(-) 15
5.	Chick pea	JG-14	8.5	8.2	8.3	17	10	35							

B. Economic parameters

Sl. No.	Crop	Variety	Farmer's Plot						Demonstration Plot						
			Technology demonstrated	Existing (Farmer's) variety name	Gross Cost (Rs/ha)	Gross Return (Rs./ha.)	Net Return (Rs./ha.)	B:C Ratio	Technology demonstrated	Demonstrated Plot (variety name)	Gross Cost (Rs/ha)	Gross Return (Rs./ha.)	Net Return (Rs./ha.)	B:C Ratio	
1.	Pigeon pea	IPA-203	Seed, pesticide, fertilizer	Local	Standing crop				Variety, line sowing, intercropping, seed treatment, pest & disease management	IPA-203					
2.	Black gram	WBU-109	Seed, pesticide,	Local	16400	42250	25850	2.8	Variety, line sowing, intercropping, seed treatment, pest & disease management	WBU-109	19000	67600	48600	3.5	
3.	Green gram	HUM-12	Seed, pesticide,	Local	16400	39000	22600	2.3	Variety, line sowing, intercropping, seed treatment, pest & disease management	HUM-12	19800	63050	43250	3.2	
4.	Horse gram	Birsa Kulthi-	Seed	Desi	12000	22500	10500	1.8	Variety, seed treatment	Birsa Kulthi-1	15000	38000	23000	2.5	

		1												
5.	Chick pea	JG-14	Seed, pesticide,	Desi					Seed, biofertilizer, pest management, seed treatment	JG-14				

C. Socio-economic impact parameters

Sl. No.	Crop	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1.	Pigeon pea	IPA-203 + line sowing, intercropping, seed treatment, pest & disease management	Standing crop						
2.	Black gram	Variety, line sowing, intercropping, seed treatment, pest & disease management	10400	286	65	1050	1000	Education, Health, Daily expenses	45
3.	Green gram	Variety- HUM-12+ Line sowing, Seed treatment + PM& DM	9700	195	65	2250	650	Education, Health, Daily expenses	45
4.	Horse gram	Variety- Birsa Kulthi-1+ Line sowing, Micro nutrient	7600	3800	50	3400	400	Education, Health, Daily expenses	40
5.	Chick pea	Variety- JG-14, Seed, biofertilizer, pest management,	Standing crops						

		seed treatment					
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D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Crop	Technologies demonstrated (with name)	Farmers' Perception parameters					Suggestions, for change/improvement, if any
			Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	
1.	Pigeon pea	IPA-203 + line sowing, intercropping, seed treatment, pest & disease management	Standing crops					
2.	Black gram	Variety- WBU-109 + Line sowing, Seed treatment + PM & DM	Yes	Yes	80%	No	Yes	Good variety
3.	Green gram	Variety- HUM-12+ Line sowing, Seed treatment + PM& DM	Yes	Yes	80%	No	Yes	Good variety
4.	Horse gram	Variety- Birsa Kulthi-1+ Line sowing, Micro nutrient	Yes	Yes	80%	No	Yes	Good variety
5.	Chick pea	Variety- JG-14, Seed, biofertilizer, pest management, seed treatment	Standing crops					

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E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended

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

H. Farmers' training photographs

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

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input			
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)			
	iv)Publication of literature			
	Total			

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
IX. Production of Inputs at site													
Organic manures production	1	11	6	17	3	2	5	18	5	23	32	13	45
X. Capacity Building and Group Dynamics													
XII. Others (Pl. Specify)													
TOTAL	26	311	129	440	77	5	82	211	39	250	599	173	772

B) Rural Youth (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom Production	1	2	6	8	-	-	-	-	25	25	2	31	33
Bee-keeping													
Integrated farming	1	21	-	21	5	-	5	8	-	8	34	-	34
Seed production	1	18	-	18	-	-	-	14	-	14	32	-	32
Production of organic inputs	1	18	-	18	5	-	5	7	-	7	30	-	30
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production	1	13	-	13	-	-	-	12	-	12	25	-	25
Repair and maintenance of farm machinery and implements	1	18	-	18	-	-	-	10	-	10	28	-	28
Nursery Management of Horticulture crops	1	36	-	36	-	-	-	-	-	-	36	-	36
Training and pruning of orchards													
Value addition	1	-	24	24	-	-	-	-	-			24	24
Small scale processing	1	-	26	26								26	26
Rural Crafts													
TOTAL	9	126	56	182	10	-	10	51	25	76	187	81	268

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Orchards														
Cultivation of Fruit	1	26	-	26				15	-	15	41	-	41	
c) Ornamental Plants														
d) Plantation crops														
e) Tuber crops														
f) Spices														
g) Medicinal and Aromatic Plants														
III. Soil Health and Fertility Management														
IV. Livestock Production and Management														
V. Home Science/Women empowerment														
Household food security by kitchen gardening and nutrition gardening	1		23									23	23	
Design and development of low/minimum cost diet	1		16									16	16	
Designing and development for high nutrient efficiency diet	2	26	16	42	-	5	5	16	5	21	42	26	68	
Value addition	3		71						14			85	85	
Others, if any	1		29	29								29	29	
VI. Agril. Engineering														
Installation and maintenance of micro irrigation systems	2	50	29	79				31	7	38	81	36	117	
Repair and maintenance of farm machinery and implements	2	35	30	65				7			42	30	72	
Small scale processing and value addition	1	1		1	4		4	7	10	17				
Post Harvest Technology														
Others, if any	2	29	28	57	-	6	6	19	12	31	48	34	82	
VII. Plant Protection														
Integrated Pest Management	3	71	-	71	-	-	-	28	-	28	99	-	99	
Integrated Disease Management	2	58	9	67				4	-	4	62	9	71	
Bio-control of pests and diseases	1	20	12		2						22	12	34	
Production of bio control agents and bio pesticides	1	15									15		15	
Others, if any	1	26	12	38				12		12	38	12	50	
VIII. Fisheries														
IX. Production of Inputs at site														
Small tools and implements	1	23	-	23	-	-	-	15	-	15	38	-	38	
X. Capacity Building and Group Dynamics														
XII. Others (Pl. Specify)														
TOTAL	39	681	352	1033	20	17	37	302	81	383	1003	450	1453	

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Training and Pruning														
Layout and Management of Orchards														
Cultivation of Fruit	1	26		26				15		15		41	41	
c) Ornamental Plants														
d) Plantation crops														
e) Tuber crops														
f) Spices														
g) Medicinal and Aromatic Plants														
III. Soil Health and Fertility Management														
IV. Livestock Production and Management														
V. Home Science/Women empowerment														
Household food security by kitchen gardening and nutrition gardening	1		23	23										23
Design and development of low/minimum cost diet	1		16											16
Designing and development for high nutrient efficiency diet	2	26	16				5	16	5	21		31	42	73
Value addition	3		71	71						14	14	71	14	85
Income generation activities for empowerment of rural Women	1		32	32									32	32
Location specific drudgery reduction technologies														
Rural Crafts														
Capacity building	1		18	18							12			30
Women and child care	1		28											
Others, if any	1		29	29									29	29
TOTAL														
VI. Agril. Engineering														
Installation and maintenance of micro irrigation systems	5	65	68	133	1		1	55	21	76	121	89	210	
Use of Plastics in farming practices														
Production of small tools and implements														
Repair and maintenance of farm machinery and implements	4	48	40	23	48	3	51	9	4	13	70	17	87	
Small scale processing and value addition	1	1		1	4		4	7	10	17	12	10	22	
Post Harvest Technology														
Others, if any	4	35	36	14			6	6	44	12	56	79	54	133
TOTAL														
VII. Plant Protection														
Integrated Pest Management	10	206		206	51		51	41		41	298		298	
Integrated Disease Management	3	78	14	92		2	2	4		4	82	16	98	
Bio-control of pests and diseases	1	20	12	32	2		2				22	12	34	

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Production of bio control agents and bio pesticides	1	15									15		15
Others, if any	2	31	12	43	2		2	18		18	51	12	63
TOTAL													
VIII. Fisheries													
IX. Production of Inputs at site													
Organic manures production	1	11	6	17	3	2	5	18	5	23	32	13	45
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements	1	23	-	23	-	-	-	15	-	15	38	-	38
X. Capacity Building and Group Dynamics													
XI Agro-forestry													
XII. Others (Pl. specify)													
TOTAL	66	992	509	1501	150	24	174	452	122	574	1594	655	2249

ii. RURAL YOUTH (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom Production	1	2	6	8	-	-	-	-	25	25	2	31	33
Bee-keeping	1	44							6		50		50
Integrated farming	1	21	-	21	5	-	5	8	-	8	34	-	34
Seed production	1	18	-	18	-	-	-	14	-	14	32	-	32
Production of organic inputs	1	18	-	18	5	-	5	7	-	7	30	-	30
Vermi-culture													
Lac cultivation	1	42							8		50		50
Protected cultivation of vegetable crops													
Commercial fruit production	1	13	-	13	-	-	-	12	-	12	25	-	25
Repair and maintenance of farm machinery and implements	1	18	-	18	-	-	-	10	-	10	28	-	28
Nursery Management of Horticulture crops	1	36	-	36	-	-	-	-	-	-	36	-	36
Value addition	1	-	24	24	-	-	-	-	-			24	24
Small scale processing	1	-	26	26								26	26
TOTAL	11	212	56	268	10		10	51	39	90	287	81	368

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops	1	19		19				5	9	14	24	9	33
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition	1		25						6			31	31
Protected cultivation technology	1	20							10		20	10	30
Women and Child care	1		28	28								28	28
Others if any	1	28		28				8		8	36		36
TOTAL	5	67	53	120				13	25	38	80	78	158

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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total

H) Vocational training programmes for Rural Youth

Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title *	Duration (days)	No. of Participants			Self employed after training			Number of persons employed elsewhere
				Male	Female	Total	Type of units	Number of units	Number of persons employed	

*training title should specify the major technology /skill transferred

Artificial Insemination (11.09.2019)											
Live Webcast on fertilizer application Awareness prog. (22.10.2019)	01										52
Any Other (Specify)											
Total	2202										10503

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	45
Radio talks	02
TV talks	0
Popular articles	
Extension Literature	10
Other, if any	

3.5 a. Production and supply of Technological products

Village seed

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farmers to whom seed provided			
					SC	ST	Other	Total
Total								

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
				SC	ST	Other	Total
Rice	R Masuri	15		SC	ST	Other	Total
	Lalat	12.5					
	IR-64DRT	9.0					
Blackgram	WBU-109	0.5					
Niger	Puja-1	0.8					
Mustard	P-30	5.5					
Linseed	Priyam	0.7					
Grand Total							

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
Ornamental plants	Marigold (Hybrid)	1000	5000			02	02
Total							

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

i) Name of Seed Hub Centre:

Name of Nodal Officer :	Uday Kumar Singh
Address :	KrishiVigyan Kendra, Bokaro
e-mail :	Kvk_bokaro@yahoo.co.in
Phone No. :	9431126991
Mobile :	

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2018	Pigeon pea	IPA-203	400	16.00	190	C/S
		TJT-501		10.00	100	C/S
	Black gram	PU-31	200	05	40	F/S
	Horse gram	Birsa Kulthi-1	200	10	70	C/S
Rabi 2019	Chick pea	JG-14	-	4	40	C/S
Summer/Spring 2019	Green gram	HUM-16	200	17	200	C/S
Total			1000	62.00	640	

iii) Financial Progress

Fund received (2016-17, 2017-18 and 2019)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2016-17	50.00	40.00	37.52954	
2017-18	-	36.00	32.96939	
2019	-	24.00	18.71225	
Total	50	100.00		

iv) Infrastructure Development

Item	Progress
Seed processing unit	Top roof of seed godown is casted and plastering of wall is completed, GI sheet is also fitted on top remaining roof. Fitting of windows are incomplete (only iron grill is fitted), whitewashing and electricity work is not completed; Platform for unloading of seed is constructed.
Seed storage structure	

3.6. (A) Literature Developed/Published (with full title, author & reference)

Item	Title	Authors name	Number	Circulation
Extension literature				
	dsapqvk [kkniz;ksx ,oacukus dh fof/k]Jhmn; dqekj flag]Mk- vfuydqekj]]JherhuhukHkkjrh	1000	1000
	Jh /kkumRiknurduhd	Jhmn; dqekj flag Mk- vfuydqekj]]JherhuhukHkkjrh]Jhfou; dqekj	1000	1000
	xsgw; dh mUur [ksrh	Jhmn; dqekj flag] Mk- vfuydqekj] Jhfou; dqekj]]JherhuhukHkkjrh	1000	1000
	e”k:emRiknurduhd	Mk- vfuydqekj]]JherhuhukHkkjrhJhmn; dqekj flag] Jhfou; dqekj]	1000	1000
	mjn dh mRiknurduhd	JherhuhukHkkjrh] Jhmn; dqekj flag] Mk- vfuydqekj]] Jhfou; dqekj]	1000	1000
	ew; x dh mRiknurduhd	JherhuhukHkkjrh] Jhmn; dqekj flag] Mk- vfuydqekj]] Jhfou; dqekj]	1000	1000
	vjg dh mRiknurduhd	JherhuhukHkkjrh] Jhmn; dqekj flag] Mk- vfuydqekj]] Jhfou; dqekj]	1000	1000
	dqYFkh dh mRiknurduhd	JherhuhukHkkjrh] Jhmn; dqekj flag] Mk- vfuydqekj]] Jhfou; dqekj]	1000	1000
	ljksa dh mRiknurduhd	Jhmn; dqekj flag] Mk- vfuydqekj]]JherhuhukHkkjrh]Jhfou; dqekj	1000	1000
	puk dh mRiknurduhd	JherhuhukHkkjrh]Jhmn; dqekj flag]Mk- vfuydqekj]]Jhfou; dqekj	1000	1000
	frlh dh mRiknurduhd	JherhuhukHkkjrh] Jhmn; dqekj flag]Mk- vfuydqekj]]Jhfou; dqekj	1000	1000
	yRrjokyhlfCt;ksa	Mk- vfuydqekj]Jhmn; dqekj flag]	1000	1000

	dh mUur [ksrh	JherhuhukHkkjrhJhfou; dqekj]]		
	Lkw{e flapkbZiz.kkyh	Jhfou; dqekj]mn; dqekj flag] Mk- vfuydqekj]JhJherhuhukHkkjrh	1000	1000
	vnjdvk/kkfjrfefJr [ksrh	Mk- vfuydqekj]Jhmn; dqekj flag] JherhuhukHkkjrh]Jhfou; dqekj]	1000	1000
TOTAL			14000	14000

N.B.: Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(B) Details of HRD programmes undergone by KVK personnel:

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
	Workshop	Finalization of Annual Action Plan 2019-20	Sri Uday Kumar Singh Sr. Scientist & Head	10 April 2019	DEE, BAU, Ranchi
	Workshop	Finalization of Annual Action Plan 2019-20	Sri Uday Kumar Singh Sr. Scientist & Head	16-17 April 2019	ICAR-ATARI, Patna, Zone-IV
	Workshop	The Brainstorming cum Workshop on Implementation of KSHMATA Activities and Modernization of the Infrastructure in KVKs	Sri Uday Kumar Singh Sr. Scientist & Head	27 April 2019	ICAR-ATARI, Patna, Zone-IV
	Workshop	Zonal Workshop of KVKs	Sri Uday Kumar Singh Sr. Scientist & Head	08-10 June 2019	ICAR-ATARI, Patna, Zone-IV
		workshop on contingent crop plan	Sri Uday Kumar Singh Sr. Scientist & Head	19 July 2019	DEE, BAU, Ranchi
	National Conference	National Conference on "Doubling farmers income for sustainable and harmonious agriculture (DISHA-2019)	Sri Uday Kumar Singh Sr. Scientist & Head	10-11 Aug. 2019	DR, BAU, Ranchi
	National Conference	National Conference on "Doubling farmers income for sustainable and harmonious agriculture (DISHA-2019)	Sri Uday Kumar Singh Sr. Scientist & Head	10-11 Aug. 2019	DR, BAU, Ranchi
	Training	Training programme on PFMS	Er. Vinay Kumar Scientist, Agril. Engg.	11-12 Sept. 2019	ICAR-ATARI, Patna, Zone-IV

Seminar	National Seminar on Climate Resilient Agriculture And Doubling Farming Income in Jharkhand	Sri Uday Kumar Singh Sr. Scientist & Head	12 Sept. 2019	DEE, BAU, Ranchi
Seminar	National Seminar on Climate Resilient Agriculture And Doubling Farming Income in Jharkhand	Mrs. Neena Bharti Scientist, Plant Protection	12 Sept. 2019	DEE, BAU, Ranchi
Training	Training programme on PKVY (Organic Farming Programme)	Mrs. Neena Bharti Scientist, Plant Protection	17-18 Sept. 2019	ICAR-ATARI, Patna, Zone-IV
Workshop	The CSISA-KVK network workshop	Sri Uday Kumar Singh Sr. Scientist & Head	24-25 Sept. 2019	ICAR, New Delhi
Training	State Level One Day GeoTagging Training Programme	Mrs. Neena Bharti Scientist, Plant Protection	3 rd Oct. 2019	SAMETI, Jharkhand
Training	State Level One Day GeoTagging Training Programme	Dr. Rupa Rani, Programme Assistant	3 rd Oct. 2019	SAMETI, Jharkhand
National Seminar	Socio-Digital Approaches for Transforming Indian Agriculture	Mrs. Neena Bharti Scientist, Plant Protection	20-22 Nov. 2019	Chaudhary Charan Singh Haryana Agricultural University(CCSHAU), Hisar, Haryana.

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

Name of farmer	Anamika Devi
Address	
Contact details (Phone, mobile, email Id)	Village- Koh, Post- Petarwar, Dist- Bokaro, Jharkhand, Pin-829121 Mobile No.7488281031
Landholding (in ha.)	30 dismil
Name and description of the farm/ enterprise	Floriculture in green house with drip irrigation and mulching technique.
Economic impact	Rs. 1.7 lakh per year from Floriculture (Gerbera)

Social impact	Now she is well known women farmer and inspiration among farmers of the area.
Environmental impact	
Horizontal/ Vertical spread	Now she has planed for Floriculture in 1 acre area.

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology

3.9. a. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

b. Give details of organic farming practiced by the farmer

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

3.10. Indicate the specific training need analysis tools/methodology followed by KVKs

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

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

Sl. No	Name of the Equipment	Qty.
1.	Flame photo meter	1
2.	Spectrophoto meter	1
3.	Incubator	1
4.	Hot plate	1
5.	P.H .meter	1
6.	E/C meter	1
7.	Distillation unit	1
8.	Mechanical shaker	1
9.	Electronic balance	1
10.	Mini Soil Testing Kit (Mridaparikshak)	2

3.11.b. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil sample analyzed through Mridaparikshak Kit.	540	540	06	
Total	540			

3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
	Training programme on Soil Health Management	150	0	Sri Umesh Kumar, Deputy Director Horticulture, Hazaribag	150	150

3.12. Activities of rain water harvesting structure and micro irrigation system

No of training programme	No of demonstrations	No of plant material produced	Visit by the farmers	Visit by the officials
05	02	-	01	02

3.13. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology
Training, KisanGosthi, Field visit, Farmer Scientist Interaction	07	125	Vegetable, Rice, Pigeon pea

3.14. RAWE/ FETprogramme - is KVK involved? (Y/N)

No of student trained	No of days stayed
1	1 Month

ARS trainees trained	No of days stayed

3.15. List of VIP visitors (Minister/ MP/MLA/DM/VC/ZilaSabhadipati/Other Head of Organization/Foreigners)

Date	Name of the person	Purpose of visit
13.08.2019	Dr. R.S. Kureel, V.C., BAU, Ranchi	KVK, Visit
04.10.2019	Dr. Anjani Kumar, Director ICAR, ATARI, Patna, Zone-IV	KVK, Visit
28.11.2019	Dr. MainulIshlemMandal, IPS	KVK Visit and discuss local agriculture issues.
27.11.2019	Sri ChabiRanjan, Director Agriculture, Jharkhand, IAS.	Field visit and visit of KVK Bokaro
27.11.2019	Sri Vikas Kumar, Deputy Director Agriculture, Planing, Jharkhand	Field visit and visit of KVK Bokaro
27.11.2019	Sri Subhash Singh, Director, SAMETI, Jharkhand	Field visit and visit of KVK Bokaro

4. IMPACT

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

4.2. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Drip irrigation in bitter gourd	110	50%	175000/ha	240000/ha
Mushroom grower	48	35%	-	2000/month
Vermi compost	35	25%	-	1500/month
Badi making of urd + pumpkin	25	40%	2500/month	4000/month
Bee keeping	45	30%	-	2000/month
Mango grower	40	60%	-	-
Management of shoot borer in brinjal	40	70%	103000/ha	139025/ha
Management of predator in kusmi lac cultivation in ber tree	35	40%	9928/ha	36232/ha
Mulching in vegetable prod.	60	70%	140000/ha	220000/ha

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread
SRI in paddy	5500 ha
Sweet corn Var- Sugar- 75	30 ha
Sweet potato (RDF)	400 ha
Innovative model of vegetable production (Cauliflower + ginger + spinach)	60 ha
Reaper for paddy harvesting	200 ha
Drumseeder	50 ha
Drip irrigation system	6000 unit
Zero Tillage machine	50 ha
Use of mulching in vegetable production	300 ha
Cultivation of Papaya & Banana	50 ha

Give information in the same format as in case studies

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread

Give information in the same format as in case studies

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

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

4.4. Details of innovations recorded by the KVK

Thematic area	
Name of the Innovation	
Details of Innovator	
Back ground of innovation	
Technology details	
Practical utility of innovation	

4.5. Details of entrepreneurship development

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

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Sl No.	Name of organization	Nature of linkage
1	ZRS, Dumka	Participation in meeting
2	DMR (ICAR) New Delhi	conducting training programmes and demonstration
3	DRMR (ICAR) Bharatpur, Rajasthan	Conducting training programmes and demonstration
4	IINRG, Namkum, Ranchi	Participation in meeting, conducting training programme& demonstration programme
5	HARP, Plandu Ranchi	Participation in meeting, conducting training programme& demonstration programme
6	KVKs of Other district	Participation in meeting
7	District Agriculture Office, Bokaro	Joint diagnostic survey, joint implementation, participation in meeting, conducting training programme& demonstration programme
8	District Horticulture Office, Bokaro	Joint diagnostic survey, joint implementation, participation in meeting, conducting training programme& demonstration programme
9	ATMA Bokaro	Joint diagnostic survey, joint implementation, participation in meeting, conducting training programme& demonstration programme
10	District Soil Survey & Soil Conservation Office, Bokaro	Joint implementation, participation in meeting, conducting training programme& demonstration programme

11	Line Dept. State Govt.	Joint diagnostic survey, joint implementation, participation in meeting, conducting training programme & demonstration programme
12	NABARD/COMMERCIAL BANK	Participation in meeting, conducting training programme
13	LDM, Bokaro	Participation in meeting, conducting training programme
14	R.K. Mission Ranchi	Participation in meeting, conducting training programme & demonstration programme
15	CURRS, Hazaribagh	Participation in meeting, conducting training programme & demonstration programme
16.	JSLPS, Sanjivini Project, Bokaro	Participation in meeting, conducting training programme & demonstration programme
17.	NGO (Pradan, Support, Raj Development SHADOW, Sanjeevni etc)	Joint diagnostic survey, participation in meeting, conducting training programme & demonstration programme
18.	Agriculture Skill Council of India, New Delhi	Skill Development Training
19.	IIPR, Kanpur	Implementation of Seed Hub Programme
20.	Regional Centre of Organic Farming, Patna	Training programme and Monitoring of KKA programme
21.	District Forest Office, Bokaro	Training

5.2. List of special programmes undertaken during 2019 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies (**information of previous years should not be provided**)

a) Programmes for infrastructure development

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)

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

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Live Webcast on National Animal Disease Control Programme for FMD and Brucellosis and Artificial Insemination		11.09.2019		
Live Webcast on PM KISAN Mandhan Yojna,		12.09.2019	-	-
Tree Plantation Drive & Kisan Gosthi	To promote Plantation Programme	17.09.2019		
Swachhta Hi Sewa	Awareness Programme on Swachhta Hi Sewa	11 Sept to 2 nd Oct. 2019	ICAR	7000
Mahila Kisan Diwas	Celebration of Mahila Kisan Diwas	15.10.2019		

Live Webcast on Fertilizer Application Awareness Programme		22 nd October 2019		
World Soil Health Day	Training and Awareness Programme on Soil Health	05.12.2019		
KisanDiwas	Celebration of KisanDiwas	23.12.2019		

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
1									
2									
3									
4									
5									
6									
7									
	Total								

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Rice	20 July to 4 August 2019	2 nd week of December 2019	0.8	R. Masuri	F/S				
	5-10 August 2019	1 st week of December 2019	0.8	Lalat	F/S				
	1-5 August 2019	1 st week of December 2019	0.6	IR-64DRT	F/S				
Pigeon pea	20 July 2019		0.2	Rajeev Lochan	F/S				
Black gram	8-10 July 2019		0.2	WBU- 109	F/S				

Niger	1-3 Aug. 2019	2 nd week of Dec. 2019	0.2	Puja-1	F/S				
Mustard			1.2	P-30	F/S				
Total									

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

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

6.4. Performance of instructional farm (livestock and fisheries production)

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

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
Total :			

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed:

No. of staffquarters:

Date of completion:

Occupancy details:

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

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number

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

Item	Released by ICAR		Expenditure		Unspent balance as on -
	Kharif	Rabi	Kharif	Rabi	

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2013
	Kharif	Rabi	Kharif	Rabi	

7.4. Utilization of KVK funds during the year 2019(Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances			
2	Traveling allowances			
3	Contingencies			
A				
B				
C				
D				
E				
F				
G				
H				
I				
J	Swachhta Expenditure			
TOTAL (A)				
B. Non-Recurring Contingencies				
1				
2				
3				
4				
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2015-16				
2016-17				
2017-18				
2019				

7.6. (i) Number of SHGs formed by KVKs

(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities

(iii) Details of marketing channels created for the SHGs

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	With both
Block level KisanMela	1	Rabi		ATMA	
SwachhtaPakhwada	1	Rabi		ATMA	
Training on Soil Health Card	1	Kharif		ATMA	
Workshop on PMFBY	1	Kharif		ATMA	
Workshop on PMFBY	2	Kharif	DCO		
DLCC meeting	2		DC office		
AMC meeting	1	Kharif			
Workshop on organic farming	1	Kharif		ATMA	
ATMA GB meeting	2	Rabi	DDC	ATMA	
Jal Shakti Abhiyan	1	Kharif	DDC	ATMA	Both
Jal Shakti Abhiyan	1	Rabi	DDC	ATMA	Both

8. Other information

8.1. Prevalent diseases in Crops

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

8.2. Prevalent diseases in Livestock/Fishery

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

9.1. Nehru YuvaKendra(NYK) Training

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

9.2. PPV & FR Sensitization training Programme

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

9.3. mKisanPortal (National Farmers' Portal/ SMSPortal)

Type of message	No. of messages	No. of farmers covered
Crop		
Livestock		
Fishery		
Weather		
Marketing		
Awareness		
Training information		
Other		
Total		

9.4. KVK Portal and Mobile App

Type of message	No. of messages	No. of farmers covered
Crop	3	14500
Livestock		
Fishery		
Weather	1	6215
Marketing		
Awareness	1	11402
Training information	4	56
Other	1	17175
Total	10	49348

9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
11 Sept to 2 nd October 2019	Cleaning of premises, SwachhtaAbhiyan at Villages, Hand wash activities at Primary SchoolChargi, Boycott of Single use of Polythene.

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	02	
2. Basic maintenance	06	
3. Sanitation and SBM	04	
4. Cleaning and beautification of surrounding areas	04	
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	03	
6. Used water for agriculture/ horticulture application		
7. Swachhta Awareness at local level	07	6500
8. Swachhta Workshops	01	
9. Swachhta Pledge	02	
10. Display and Banner	02	600
11. Foster healthy competition		
12. Involvement of print and electronic media	01	
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	05	1500
14. No of Staff members involved in the activities	16	
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (in details)		
Total	53	8600

9.6. Observation of National Science day

Date of Observation	Activities undertaken

9.7. Programme with SeemaSurakshaBal/ BSF

Title of Programme	Date	No. of participants

9.8. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used
DAV, School, Ialpania, Tenughat	25.07.2019	Basic knowledge of Agriculture, Mushroom production, Drip irrigation	Photographs, Chart, Black board, Poster presentation.
DAV, School, Bokaro	08 .11.2019	Basic knowledge of Agriculture, Use of Agriculture Implements	Photographs, Chart, Black board, Poster presentation.

Give good quality 1-2 photograph(s)

9.9. Details of 'Pre-Rabi Campaign' Programme

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

9.10. Details of Swachhta Hi Sewaprogramme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1.	Cleaning of premises, SwachhtaAbhiyan at Villages, Hand wash activities at Primary School Chargi, Boycott of Single use of Polythene.	05	130	-	-

9.11. Details of MahilaKisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1.	Gosthi on MahilaKisanDiwas	08	65	-	-

9.12. No. of Progressive/Innovative/Lead farmer identified (category wise)

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise

9.13. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.			
2.			
3.			

9.14. Resource Generation:

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created

9.15. Performance of Automatic Weather Station in KVK

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

9.16. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK

10. Report on Cereal Systems Initiative for South Asia (CSISA) :Survey work is going on

- a) Year:
b) Introduction / General Information:

	Title	Objective	Treatment details	Date of sowing	Replication	Result with photographs
Experiment 1						
Experiment 2						
Experiment 3						
...						
..						
Others (If any)						

11. Details of TSP : NA

- a. Achievements of physical output under TSP during 2017-18

Programmes	Physical achievements
Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)	
On-farm trials (Number)	
Frontline demonstrations (Number)	
Farmers training (in lakh)	
Extension personnel training (in lakh)	
Participants in extension activities (in lakh)	
Seed production (in tonnes)	
Planting material production (in lakh)	
Livestock strains and fingerlings production (in lakh)	
Soil, water, plant, manures samples testing (in lakh)	
Provision of mobile agro – advisory to farmers (in lakh)	
No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)	

- b. Fund received under TSP in 2017-18 (Rs. In lakh):

- c. Achievements of physical outcome under TSP during 2017-18

Sl. No.	Description	Unit	Achievements
1	Change in family income	%	
2	Change in family consumption level	%	
3	Change in availability of agricultural implements/ tools etc.	No. per household	

- d. Location and Beneficiary Details during 2017-18

District	Sub-district	No. of Village covered	Name of village(s) covered	ST population benefitted (No.)		
				M	F	T

12. Progress report of NICRA KVK (Technology Demonstration component) during the period (Applicable for KVKs identified under NICRA)

Natural Resource Management

Name of intervention undertaken	Number s under taken	No of unit s	Area (ha)	No of farmers covered / benefitted						Remarks		
				SC		ST		Other			Total	
				M	F	M	F	M	F		M	F

Crop Management

Name of intervention undertaken	Area (ha)	No of farmers covered / benefitted						Remarks			
		SC		ST		Other			Total		
		M	F	M	F	M	F		M	F	T

Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of unit s	Area (ha)	No of farmers covered / benefitted						Remarks	
				SC		ST		Other			Total
				M	F	M	F	M	F		M

Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No of farmers covered / benefitted						Remarks		
			SC		ST		Other			Total	
			M	F	M	F	M	F		M	F

Capacity building

Thematic area	No of Courses	No of beneficiaries								
		S C	ST	Other			Total			
		M	F	M	F	M	F	M	F	T

Extension activities

Thematic area	No of activities	No of beneficiaries								
		S C	ST	Other			Total			
		M	F	M	F	M	F	M	F	T

Detailed report should be provided in the circulated Performa

13. Awards/Recognition received by the KVK

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

Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
1.	Innovative Farmers Award	ShivnarayanManjhi	2019	BAU, Ranchi	-	

14. Any significant achievement of the KVK with facts and figures as well as quality photograph

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

Sl. No.	Name of the organization / Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator

16. Integrated Farming System (IFS)

Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year

17. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3-5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1					
2					

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

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I (up-to 15.03.2018)					
II (up-to 24.04.218)					
Total					

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

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

20. a) Information on ASCI Skill Development Training Programme, if undertaken during 2017-18 and 2019

Year	Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants	Whether uploaded to SDMS Portal (Y/N)	Fund utilized for the training (Rs.)
2016-17							
2017-18							
2018-19	Mushroom Grower	Mrs. Neena Bharti, Scientist, Plant Protection	15.01.2019	22.02.19	20	yes	165200.00
	Mango grower	Dr. Anil Kumar, Scientist, Horticulture	15.01.2019	22.02.19	20	yes	165200.00

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs.**, if any) if undertaken during 2019

Thematic area of training	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	

21. Information on NARI Project(if applicable)

Name of Nodal Officer	No. of OFT on specified aspects	Title(s) of OFT	No. of FLD on specified aspects	No. of capacity development programme on specified aspects	Total no. of farm women/ girls involved in the project	Details of Issues related to gender mainstreaming addressed through the project

22. Information on KrishiKalyanAbhiyan Phase- I/ Phase-II/ Phase-III, if applicable

KrishiKalyanAbhiyan- I and II

A. Training

Name of programme	No. of programmes	No. of farmers benefitted									No. of officials attended the programme	
		SC		ST		Others		Total				
		M	F	M	F	M	F	M	F	T		
KKA-I	77										5434	08
KKA-II	75										3750	10

B. Distribution of seed/ planting materials/ input/ others

Name of programme	No. of Programme	Total quantity distributed				No. of farmers benefited								No. of other officials (except KVK) attended the programme		
		Seed (q)	Planting material (lakh)	Input (kg)	Other (kg/No.)	SC		ST		Others		Total				
						M	F	M	F	M	F	M	F		T	
KKA-I	25	362.8 (Moon g- 97.8 S.bean 240 Rice- 25)	0.125												9197	
KKA-II	25	25	-	-	-										1349	

C. Livestock and Fishery related activities

Name of programme	No. of Programme	Activities performed				No. of farmers benefited									No. of other officials (except KVK) attended the programme	
		No. of animals vaccinated	No. of animals dewormed	Feed/nutrient supplements provided (kg)	Any other (Distribution of animals / birds/ fingerlings) [No.]	SC		ST		Others		Total				
						M	F	M	F	M	F	M	F	T		
KKA-I	25	3965	-	-	-											15
KKA-II	25	3001	-	-	-									1526		16

D. Other activities

Name of programme	Activities	No. of farmers benefited									No. of other officials (except KVK) attended the programme	
		SC		ST		Others		Total				
		M	F	M	F	M	F	M	F	T		
KKA-I	Soil Health Card Distributed										6106	
	NADEP Pit established										300	
	Farm implements distributed										250	
	Others, if any											
KKA-II	Soil Health Card Distributed										5867	
	NADEP Pit established										-	
	Farm implements distributed										200	
	Others, if any											

KrishiKalyanAbhiyan- III

No. of villages covered	No. of animal inseminated	No. of farmers benefitted									Any other, if any (pl. specify)	
		SC		ST		Others		Total				
		M	F	M	F	M	F	M	F	T		

23. Any other programme organized by KVK, not covered above

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

24. Good quality action photographs of overall achievements of KVK during the year (best 10)
